



PRO 2022



izartool.com



#IZAR50yearsinternational

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Estimados clientes, colaboradores y amigos,

Este Catálogo Profesional supone la culminación de un trayecto que comenzó en 1998, con el primer catálogo de IZAR que tuve el honor de prologar.

Continuamos ampliando sin descanso la gama de soluciones innovadoras para nuestros clientes en brocas para metal, madera y pared, así como todo tipo de herramientas relacionadas con las mismas.

Ejemplo de ello, la nueva broca de Zirkonio en envase individual EV pack 1065, los rompe-machos 9016, la nueva gama de aceites de corte 3415 y los nuevos estuches de brocas 1459, que incluyen las medidas previas al roscado.

Reforzamos nuestro compromiso con la sostenibilidad y el medioambiente, consumiendo energía con garantía de origen 100% renovable y unimos a ello, incluso, nuestra gama de envasados OLATU, concebida bajo parámetros de eco-diseño que, como ya es bien conocido, supone una reducción del impacto ambiental en todo el ciclo de vida del producto de un 64%. Esta gama se ampliará, presentando importantes novedades y mejoras en un futuro muy cercano.

Hemos querido modernizar, no solo el diseño de las herramientas y los envasados, sino incluso el propio catálogo, que como podrán observar, con 400 páginas y 8.700 artículos, es el más amplio editado hasta la fecha. Ahora es más sencillo y fácil identificar que nunca antes la herramienta que necesitamos, y el modo más responsable y eficiente de utilizarla.

Finalmente, a pesar de nuestro compromiso con la estabilidad de precios, la evolución de las materias primas, de la energía y de los fletes, se han combinado de tal forma, que han generado la mayor espiral inflacionista imaginable. Esto nos obliga a actualizar nuestros precios, que se incrementan en el entorno de un 6%, como media, aproximadamente. No es un incremento lineal, sino que hemos querido ser cuidadosos y hemos evaluado el impacto de la subida de forma individual, artículo por artículo.

Todo ello viene además combinado con un reajuste de la política de descuentos, que tiene un impacto cero en nuestros distribuidores, pero que acerca los precios publicados a los precios reales de venta al usuario final, lo que es esencial en esta nueva era de las nuevas tecnologías y de la transparencia en la que vivimos.

Estamos muy agradecidos de contar con su confianza pues, sin ustedes, nada de lo que hacemos tendría sentido.

Dear customers, business partners and friends,

This Professional Catalogue is the culmination of a journey that began in 1998, with the first IZAR catalogue, which I had the honour of prefacing.

We continue to relentlessly expand the range of innovative solutions for our customers, in drill bits for metal, wood and masonry, as well as all types of related tools.

For example, the new 1065 Zirkonio drill bit in individual EV packaging, the 9016 tap breakers, the new 3415 range of cutting oils and the new 1459 drill bit sets, which include measures prior to threading.

We reinforce our commitment to sustainability and the environment, consuming energy with a guarantee of 100% renewable origin. We add to this our OLATU range of packaging, conceived under eco-design parameters which, as is already well known, means a 64% reduction in the environmental impact throughout the product's life cycle. This range will be expanded, with important new features and improvements in the very near future.

We wanted to modernise not only the design of the tools and packaging, but also the catalogue itself. As you will see, with 400 pages and 8,700 articles, it is the most extensive catalogue published to date. It is now simpler and easier than ever before to identify the tool we need, and the most responsible and efficient way to use it.

Finally, despite our commitment to price stability, the evolution of raw materials, energy and freight rates have combined in such a way as to generate the largest inflationary spiral imaginable. This forces us to update our prices, which increase by approximately 6% on average. It is not a linear increase; instead, we wanted to be careful and we have assessed the impact of the increase on an item-by-item basis.

This is combined with a readjustment of the discount policy, which has zero impact on our distributors, but brings the published prices closer to the real sales prices to the end user. This is essential in this new era of new technologies and transparency in which we live.

We are very grateful for your trust, as, without you, none of what we do would make sense.

Chers clients, collaborateurs et amis,

Ce catalogue professionnel est l'aboutissement d'un parcours qui a commencé en 1998, avec le premier catalogue IZAR, dont j'ai eu l'honneur de préfacer.

Nous continuons à élargir sans relâche la gamme de solutions innovantes pour nos clients en matière de forets pour le métal, le bois et la maçonnerie, ainsi que tous les outils connexes.

Citons par exemple les nouveaux forets Zirkonio en pack individuel EV 1065, les forets à mortaiser 9016, la nouvelle gamme d'huiles de coupe 3415 et les nouveaux coffrets de forets 1459, qui incluent les mesures préalables au taraudage.

Nous renforçons notre engagement envers la durabilité et l'environnement, en consommant de l'énergie avec une garantie d'origine 100 % renouvelable et nous ajoutons à cela notre gamme d'emballages OLATU, conçue selon des paramètres d'éco-conception qui, comme on le sait déjà, signifie une réduction de 64 % de l'impact environnemental tout au long du cycle de vie du produit. Cette gamme sera étendue, avec d'importantes nouveautés et améliorations dans un avenir très proche.

Nous avons voulu moderniser non seulement le design des outils et des emballages, mais aussi le catalogue lui-même, qui, comme vous pouvez le constater, avec 400 pages et 8 700 articles, est le catalogue le plus complet publié à ce jour. Il est aujourd'hui plus simple et plus facile que jamais d'identifier l'outil dont nous avons besoin, ainsi que la manière la plus responsable et la plus efficace de l'utiliser.

Enfin, malgré notre engagement en faveur de la stabilité des prix, l'évolution des matières premières, de l'énergie et des frets se sont combinés de manière à générer la plus grande spirale inflationniste imaginable. Cela nous oblige à actualiser nos prix qui augmentent d'environ 6 % en moyenne. Il ne s'agit pas d'une augmentation linéaire, mais nous avons voulu être prudents et nous avons évalué l'impact de l'augmentation article par article.

Ceci est combiné à un réajustement de la politique de réductions, qui a un impact nul sur nos distributeurs, mais rapproche les prix publiés des prix de vente réels à l'utilisateur final, ce qui est essentiel dans cette nouvelle ère de nouvelles technologies et de transparence dans laquelle nous vivons.

Nous vous remercions vivement de votre confiance, car sans vous, rien de ce que nous faisons n'aurait de sens.

UNA EMPRESA CON VALORES

A Company With Values

Une entreprise avec des valeurs

Valores IZAR

- La honestidad
- El enfoque al cliente
- La adaptación al cambio
- El compromiso con la calidad y con el trabajo bien hecho
- El trabajo en equipo
- El interés por la tecnología y por la innovación

IZAR Values

- Honesty
- Customer focus
- Adaptation to change
- Commitment to quality and to the job well done
- Team-work
- Interest for technology and innovation

Valeurs IZAR

- L'honnêteté
- L'orientation client
- L'adaptation au changement
- L'engagement pour la qualité et pour le travail bien fait
- Le travail en équipe
- L'intérêt pour la technologie et l'innovation

UNA EMPRESA SOCIALMENTE RESPONSABLE

A socially responsible company

Une entreprise socialement responsable



Premio Zirgari a la igualdad de género en el mundo de la industria

Zirgari award for gender equality in the world of industry

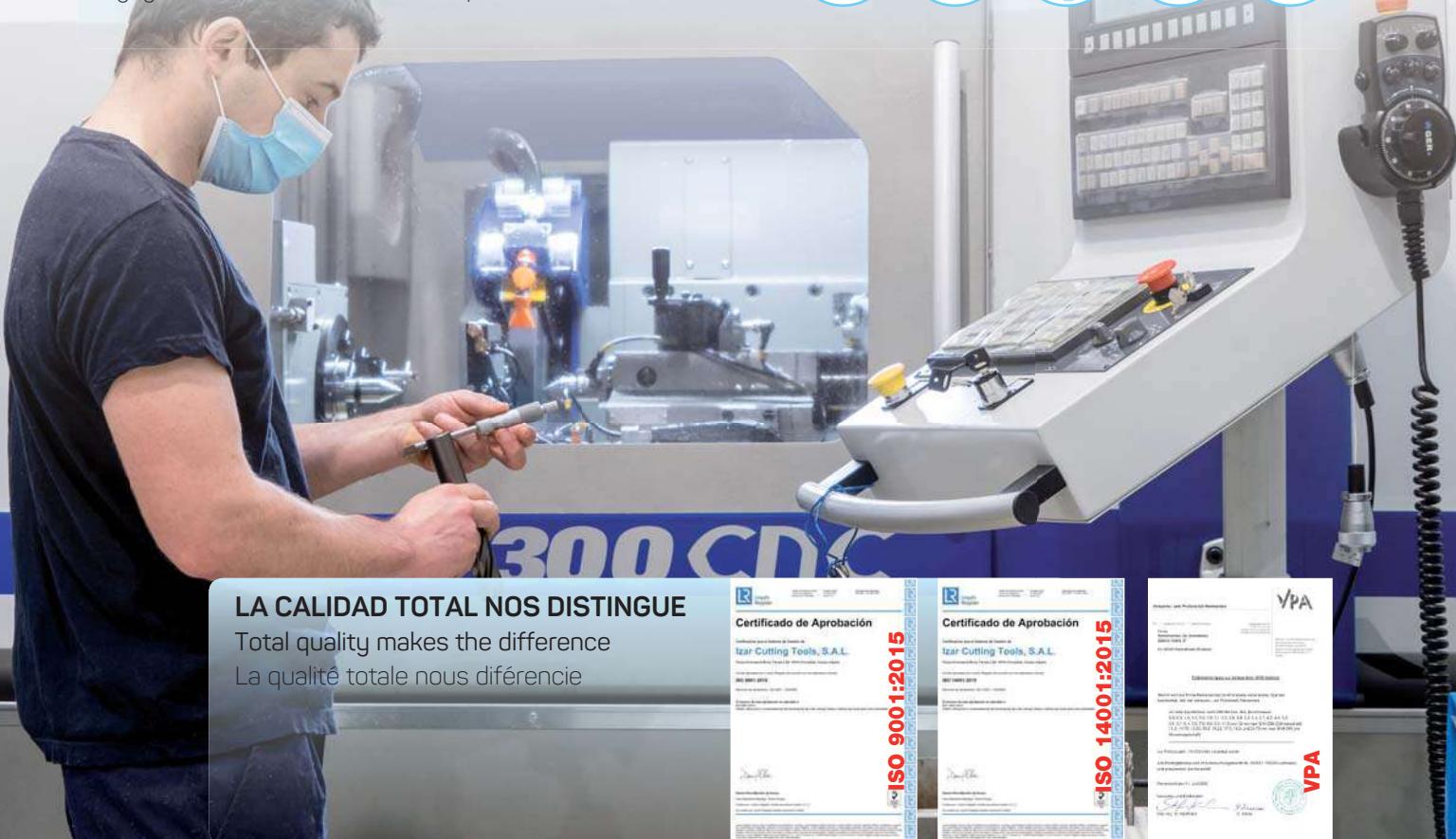
Prix Zirgari de l'égalité femmes-hommes dans le monde de l'industrie



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Committed to manufacturing and jobs

Engagés dans la fabrication et l'emploi



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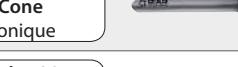

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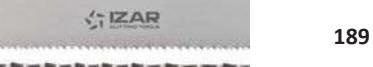

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Double Blister

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METAL

Metal

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BROCAS

Drill Bits
Forets

PORTABROCAS Y ACCESORIOS

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BROCAS ESPECIALES

Special Drill Bits
Forets spéciales

FRESAS HUECAS

Hole-Cutters
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Brazed Turning Tools
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BROCAS

Drill Bits

Forets

Ref. **1021**

BROCA UNIVERSAL COBALTO MULTI INOX

Multi-STAINLESS Cobalt Universal Drill Bit

Foret universel cobalt Multi INOX



BOROA

HSSE
5% Co

DIN
338 W

135°

40°

Chapa
Sheets
Tôle

≥Ø4
<5 mm

Aceros
<850 N/mm²
Steel / Aciers

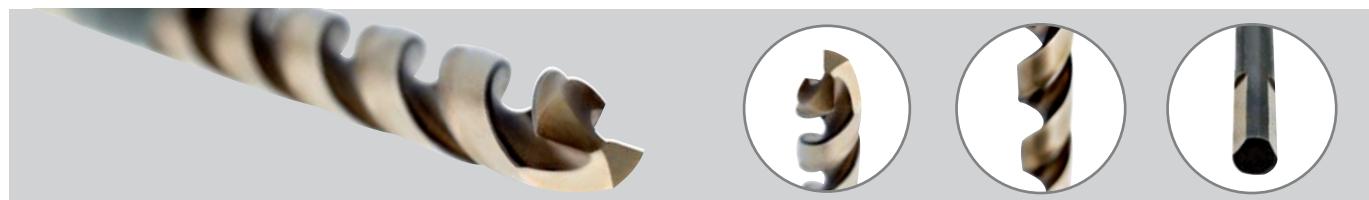
INOX
Stainless Steel
Acier INOX

Cobre
Copper
Cuivre

Aluminio
Aluminium



Video



Ángulo de Punta 135°:

- Especial taladro mano.
- Aguzado de gran precisión.
- Menor fuerza de corte.
- Buen centrado superficies curvas.

Hélice 40°:

- Excelente evacuación de viruta.
- Taladrado más rápido y estable.
- Agujeros precisos hasta el final.

Mango de 3 Planos:

- Óptimo agarre y sujeción.
- Menor esfuerzo.
- Evita que se resbale la broca.
- Inmejorable transmisión de la energía.

135° Point Angle:

- Special portable drilling machine.
- High precision Split Point.
- Lower cutting-forces.
- Good centering on concave surfaces.

40° Helix:

- Excellent chip removal.
- Faster & stable drilling.
- Accurate holes right to the end.

3-Flat Shank:

- Optimum fixing.
- Low effort.
- No spinning in the drill-chuck.
- Ideal energy-transmission.

Angle de pointe 135°:

- Perceuses à main
- Affûtage précision
- Force de coupe inférieure
- Autocentrage surfaces courbes

Helix 40°:

- Excellente évacuation copeaux
- Perçage plus rapide et stable
- Trous précis jusqu'au bout

Queue 3 plans:

- Fixation optimale
- Effort inférieur
- Pas de glissement du foret
- Transmission d'énergie parfait

D mm	L mm	I mm		Nº Art.	€
1,00	34	12	10	25641	
1,25	38	16	10	25642	
1,50	40	18	10	25644	
1,75	46	22	10	69953	
2,00	49	24	10	25645	
2,25	53	27	10	25646	
2,50	57	30	10	25647	
2,75	61	33	10	25648	
3,00	61	33	10	25650	
3,20	65	36	10	25710	
3,25	65	36	10	25728	
3,30	65	36	10	25730	
3,50	70	39	10	25733	
3,75	70	39	10	25738	
4,00	75	43	10	25744	
4,20	75	43	10	25751	
4,25	75	43	10	25756	
4,50	80	47	10	25762	
4,75	80	47	10	25764	
5,00	86	52	10	25769	
5,20	86	52	10	25774	

D mm	L mm	I mm		Nº Art.	€
5,25	86	52	10	25777	
5,50	93	57	10	25780	
5,75	93	57	10	25786	
6,00	93	57	10	25788	
6,25	101	63	10	25790	
6,50	101	63	10	25793	
6,75	109	69	10	25795	
6,80	109	69	10	25798	
7,00	109	69	10	25801	
7,25	109	69	10	25803	
7,50	109	69	10	25805	
7,75	117	75	10	69952	
8,00	117	75	10	25807	
8,25	117	75	5	25809	
8,50	117	75	5	25811	
8,75	125	81	5	69950	
9,00	125	81	5	25813	
9,10	125	81	5	48842	
9,20	125	81	5	48845	
9,25	125	81	5	69949	
9,30	125	81	5	48848	

D mm	L mm	I mm		Nº Art.	€
9,50	125	81	5	25815	
9,75	133	87	5	69947	
10,00	133	87	5	25817	
10,20	133	87	1	32666	
10,25	133	87	1	25819	
10,50	133	87	1	25821	
10,75	142	94	1	69946	
11,00	142	94	1	25823	
New!	11,10	142	94	1	48851
New!	11,20	142	94	1	48854
New!	11,25	142	94	1	69945
New!	11,30	142	94	1	48857
11,50	142	94	1	25825	
11,75	142	94	1	69944	
12,00	151	101	1	25827	
12,25	151	101	1	69943	
12,50	151	101	1	25829	
12,75	151	101	1	69941	
13,00	151	101	1	25831	
14,00	160	108	1	81564	

**Expo
1021**



BROCA UNIVERSAL COBALTO MULTI INOX

Multi-STAINLESS Cobalt Universal Drill Bit

Foret universel cobalt Multi INOX

Cuartos / Quarters / Quarts

Ø	1	1,5	2	2,5	3	3,25
Pcs	10	10	10	10	10	10
Ø	3,5	4	4,25	4,5	5	
Pcs	10	10	10	10	10	
Ø	5,5	6	6,5	7		
Pcs	10	10	10	10		
Ø	7,5	8	8,5	9		
Pcs	10	10	10	10		
Ø	9,5	10	11	12	13	
Pcs	5	5	2	2	2	

Nº Art. 57527: €



Previos Roscado / Before Threading / Pré-Taraudage

Ø	1	1,5	2	2,5	3	3,3	
Pcs	10	10	10	10	10	10	
Ø	3,5	4	4,2	4,5	5		
Pcs	10	10	10	10			
Ø	5,5	6	6,5	6,8			
Pcs	10	10	10	10			
Ø	7	7,5	8	8,5			
Pcs	10	10	10	10			
Ø	9	9,5	10	10,2	11	12	13
Pcs	10	5	5	2	2	2	2

Nº Art. 57981: €

**Línea 1m
1021**

BROCA UNIVERSAL COBALTO MULTI INOX

Multi-STAINLESS Cobalt Universal Drill Bit

Foret universel cobalt Multi INOX

Cuartos / Quarters / Quarts

1,5	3	4	5	6	7	8	9	10	12	13	mm pcs
10	10	10	10	10	10	10	10	10	2	2	
1	2	3,25	4,25	5,5	6,5	7,5	8,5	9,5	11	13	
10	10	10	10	10	10	10	10	10	2	2	

Nº Art. 71647: €



Previos Roscado / Before Threading / Pré-Taraudage

1,5	3	4	5	6	7	8	9,5	10,2	12	13	mm pcs
10	10	10	10	10	10	10	10	2	2		
1	2	3,3	4,2	5,5	6,5	7,5	8,5	9	11	13	
10	10	10	10	10	10	10	10	5	2	2	

Nº Art. 71648: €



Cabinet 1021

BROCA UNIVERSAL COBALTO MULTI INOX

Multi-STAINLESS Cobalt Universal Drill Bit

Foret universel cobalt Multi INOX



176 Pcs

ø	1	1,5	2	2,5	3	3,5	4	4,5
Pcs	10	10	10	10	10	10	10	10
ø	5	5,5	6	6,5	7			
Pcs	10	10	10	10	10			10
ø	7,5	8	8,5	9				
Pcs	10	10	5	5				5
ø	9,5	10	10,5	11				
Pcs	5	5	1	1				1
ø	11,5	12	12,5	13				
Pcs	1	1	1	1				

Nº Art. 55448: €

Ref. 1004

BROCA UNIVERSAL COBALTO MULTI INOX

Multi-STAINLESS Cobalt Universal Drill Bit

Foret universel cobalt Multi INOX



BOROA



Aceros
<850 N/mm²
Steel / Aciers

INOX
Stainless Steel
Acier INOX

Cobre
Copper
Cuivre

Aluminio
Aluminium



D mm	L mm	I mm		Nº Art.	€
1,00	34	12	2	55605	*
1,50	40	18	2	55606	*
2,00	49	24	2	34051	*
2,50	57	30	2	34052	*
3,00	61	33	2	34053	*
3,25	65	36	2	34054	*
3,30	65	36	2	39917	*
3,50	70	39	2	34055	*
4,00	75	43	2	34056	*
4,20	75	43	1	39918	
4,25	75	43	1	34057	
4,50	80	47	1	34058	
5,00	86	52	1	34059	
5,50	93	57	1	34060	
6,00	93	57	1	34061	

D mm	L mm	I mm		Nº Art.	€
6,50	101	63	1	34062	
6,80	109	69	1	39919	
7,00	109	69	1	34063	
7,50	109	69	1	34064	
8,00	117	75	1	34065	
8,50	117	75	1	34066	
9,00	125	81	1	34067	
9,50	125	81	1	72629	
10,00	133	87	1	34068	
10,20	133	87	1	39920	
10,50	133	87	1	74942	
11,00	142	94	1	34069	
11,50	142	94	1	74943	
12,00	151	101	1	34070	
13,00	151	101	1	34071	

* € = 2 uds.

Línea 1m
1004

BROCA UNIVERSAL COBALTO MULTI INOX

Multi-STAINLESS Cobalt Universal Drill Bit

Foret universel cobalt Multi INOX



∅	1	1,5	2	2,5	3	3,25	3,5	4	4,25	4,5	5	5,5	6	6,5	7	7,5	8	9	10
Packs	3	3	5	5	10	5	5	10	5	5	10	5	10	5	5	3	5	3	3

Ref. 4995 - Nº Art. 70933: €



Doble Blister
ref. M021
pag. 370

Display 62



BROCA UNIVERSAL COBALTO MULTI INOX

Multi-STAINLESS Cobalt Universal Drill Bit

Foret universel cobalt Multi INOX

Ø	7,5	8	8,5	9	10	11	12	13
Packs	3	5	3	3	3	2	2	2
Ø	4,25	4,25	4,5	5	5	5,5	6	6
Packs	3	2	5	3	2	5	3	5
Ø	2	2,5	2,5	3	3	3,25	3,5	3,5
Packs	5	3	2	3	2	5	3	2

Ref. 4995 - Nº Art. 34377: €

Display 50



BROCA UNIVERSAL COBALTO MULTI INOX + PREVIOS ROSCADO

Multi-STAINLESS Cobalt Universal Drill Bit + Before Threading

Foret universel cobalt Multi INOX + Pré-Taraudage

Ø	8	8,5	9	10	10,2	11	12	13
Packs	5	3	3	3	2	2	2	2
Ø	4,25	4,5	5	5	5,5	6	6,5	6,8
Packs	5	5	3	2	5	5	5	5
Ø	2	2,5	3	3	3,25	3,3	3,5	4
Packs	5	5	3	2	5	5	3	2

Ref. 4995 - Nº Art. 55633: €

Display 52 Mixto PRO



BROCAS MULTI INOX + PARED PRO + MADERA PRO

Multi-Stainless + Concrete Pro + Wood Pro Drill Bits

Forets Multi INOX + Béton Pro + Bois Pro

Ref.	Ø	3	4	5	6	7	8	9	10	12	14
1886	Pcs	5	5	10	10	5	5	3	3	3	3
Ref.	Ø	3	3	4	4	5	5	6	6	8	10
1641	Pcs	3	2	3	2	3	2	3	2	5	5
Ref.	Ø	1	2	3	3,5	4	4,5	5	6	8	10
1004	Pcs	2	2	3	3	5	5	5	5	5	3

Ref. 4995 - Nº Art. 68575: €

Sets 1021

BROCA UNIVERSAL COBALTO MULTI INOX

Multi-STAINLESS Cobalt Universal Drill Bit

Foret universel cobalt Multi INOX



Set 1462

6 Pcs

Cont.	Nº Art.	€
Ø 2 - 3 - 4 - 5 - 6 - 8 mm	34204	



Set 1459

29 Pcs

Cont.	Nº Art.	€
1 - 13 x 0,5 mm *	15114	

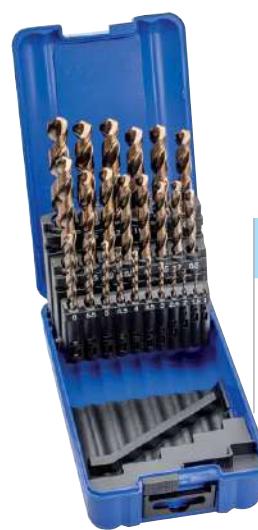
* + Previos Roscado / Before Threading
Pré-Taraudage (3,3 - 4,2 - 6,8 - 10,2 mm)



Set 1466

19 Pcs

Cont.	Nº Art.	€
Ø 1 - 10 x 0,5 mm	34201	



Set 1456

25 Pcs

Cont.	Nº Art.	€
Ø 1 - 13 x 0,5 mm	34199	



Box-Pallet
1021

5 Sets 1466

Nº Art.	Cont. Set	€
80669	1 - 10 x 0,5 mm	



Box-Pallet
1021

5 Sets 1456

Nº Art.	Cont. Set	€
80684	1 - 13 x 0,5 mm	



Ref. **1016**

BROCA MANGO CILÍNDRICO COBALTO

Cobalt Straight Shank Drill Bit
Foret queue cylindrique Cobalt



PROFESSIONAL

HSSE
5% Co

DIN
338 N



Materiales Duros
Hard Materials
Matériaux durs

Aceros
<1300 N/mm²
Steel / Aciers

INOX Ferríticos-Martensíticos
Ferritic-Martensitic Stainless
INOX Ferritiques-Martensitiques

Titanio
Titanium
Titane



Video



D mm	L mm	I mm	Box	Nº Art.	€
0,50	22	6	10	37442	
0,60	27	7	10	37443	
0,70	28	9	10	37444	
0,75	28	9	10	37445	
0,80	30	10	10	37446	
0,90	32	11	10	37447	
1,00	34	12	10	27309	
1,10	36	14	10	20107	
1,20	38	16	10	28861	
1,25	38	16	10	20112	
1,30	38	16	10	20116	
1,40	40	18	10	20125	
1,50	40	18	10	27170	
1,60	43	20	10	20133	
1,70	43	20	10	20142	
1,75	46	22	10	20146	
1,80	46	22	10	20151	
1,90	46	22	10	20155	
2,00	49	24	10	19247	
2,10	49	24	10	20161	
2,20	53	27	10	20166	
2,25	53	27	10	20170	
2,30	53	27	10	20175	
2,40	57	30	10	20184	
2,50	57	30	10	19251	
2,60	57	30	10	20199	
2,65	57	30	10	80109	
2,70	61	33	10	20203	
2,75	61	33	10	19262	
2,80	61	33	10	20209	
2,90	61	33	10	20214	
3,00	61	33	10	19256	

D mm	L mm	I mm	Box	Nº Art.	€
3,05	65	36	10	79847	
3,10	65	36	10	20220	
3,15	65	36	10	79848	
3,20	65	36	10	20224	
3,25	65	36	10	19259	
3,30	65	36	10	20230	
3,40	70	39	10	20235	
3,50	70	39	10	19268	
3,60	70	39	10	20241	
3,70	70	39	10	20245	
3,75	70	39	10	19269	
3,80	75	43	10	20251	
3,90	75	43	10	20256	
4,00	75	43	10	19286	
4,05	75	43	10	18949	
4,10	75	43	10	20265	
4,15	75	43	10	65326	
4,20	75	43	10	20269	
4,25	75	43	10	19271	
4,30	80	47	10	20278	
4,40	80	47	10	20283	
4,50	80	47	10	19274	
4,60	80	47	10	20289	
4,70	80	47	10	20293	
4,75	80	47	10	20298	
4,80	86	52	10	20302	
4,90	86	52	10	20311	
5,00	86	52	10	19277	
5,05	86	52	10	76128	
5,10	86	52	10	20320	
5,15	86	52	10	79849	
5,20	86	52	10	20328	





Ref. 1016

BROCA MANGO CILÍNDRICO COBALTO

Cobalt Straight Shank Drill Bit

Foret queue cylindrique Cobalt

D mm	L mm	I mm		Nº Art.	€
5,25	86	52	10	19280	
5,30	86	52	10	20340	
5,40	93	57	10	20349	
5,50	93	57	10	19290	
5,60	93	57	10	20361	
5,70	93	57	10	20370	
5,75	93	57	10	20379	
5,80	93	57	10	20388	
5,90	93	57	10	20397	
6,00	93	57	10	19301	
6,05	101	63	10	79855	
6,10	101	63	10	20415	
6,15	101	63	10	79856	
6,20	101	63	10	20424	
6,25	101	63	10	20433	
6,30	101	63	10	20442	
6,35	101	63	10	79858	
6,40	101	63	10	20451	
6,45	101	63	10	64140	
6,50	101	63	10	27290	
6,60	101	63	10	20466	
6,70	101	63	10	20475	
6,75	109	69	10	20481	
6,80	109	69	10	20488	
6,90	109	69	10	20493	
7,00	109	69	10	19305	
7,10	109	69	10	20499	
7,20	109	69	10	20503	
7,25	109	69	10	20508	
7,30	109	69	10	20512	
7,40	109	69	10	20517	
7,50	109	69	10	19292	
7,60	117	75	10	20523	
7,70	117	75	10	20527	
7,75	117	75	10	20532	
7,80	117	75	10	20536	
7,90	117	75	10	20541	
8,00	117	75	10	20208	
8,10	117	75	10	22734	
8,20	117	75	10	22737	
8,25	117	75	10	22740	
8,30	117	75	10	22743	
8,40	117	75	10	22746	
8,50	117	75	10	19298	
8,60	125	81	10	22752	
8,70	125	81	10	22755	
8,75	125	81	10	22758	
8,80	125	81	10	22761	
8,90	125	81	10	22764	
9,00	125	81	10	20358	
9,10	125	81	10	22768	
9,20	125	81	10	22771	
9,25	125	81	10	22774	
9,30	125	81	10	22777	
9,40	125	81	10	22780	
9,50	125	81	10	20545	
9,60	133	87	10	22784	
9,70	133	87	10	23567	
9,75	133	87	10	26697	

D mm	L mm	I mm		Nº Art.	€
9,80	133	87	10	26809	
9,90	133	87	10	27121	
10,00	133	87	10	27291	
10,10	133	87	5	27318	
10,20	133	87	5	27541	
10,25	133	87	5	27544	
10,30	133	87	5	27585	
10,40	133	87	5	27682	
10,50	133	87	5	27685	
10,60	133	87	5	27690	
10,70	142	94	5	27693	
10,75	142	94	5	27696	
10,80	142	94	5	27699	
10,90	142	94	5	27702	
11,00	142	94	5	27705	
11,10	142	94	5	27708	
11,20	142	94	5	27711	
11,25	142	94	5	27714	
11,30	142	94	5	27717	
11,40	142	94	5	27720	
11,50	142	94	5	19307	
11,60	142	94	5	27724	
11,70	142	94	5	27727	
11,75	142	94	5	27730	
11,80	142	94	5	27733	
11,90	151	101	5	27736	
12,00	151	101	5	19311	
12,10	151	101	5	27742	
12,20	151	101	5	27745	
12,25	151	101	5	19313	
12,30	151	101	5	27749	
12,40	151	101	5	27752	
12,50	151	101	5	27755	
12,60	151	101	5	27758	
12,70	151	101	5	27761	
12,75	151	101	5	19316	
12,80	151	101	5	27765	
12,90	151	101	5	27768	
13,00	151	101	5	27771	
13,25	160	108	1	27777	
13,50	160	108	1	27774	
13,75	160	108	1	27780	
14,00	160	108	1	27783	
14,25	169	114	1	27786	
14,50	169	114	1	27789	
14,75	169	114	1	27792	
15,00	169	114	1	27795	
15,25	178	120	1	27798	
15,50	178	120	1	27801	
15,75	178	120	1	27804	
16,00	178	120	1	27807	
16,50	184	125	1	27811	
17,00	184	125	1	27814	
17,50	191	130	1	27817	
18,00	191	130	1	27820	
18,50	198	135	1	27823	
19,00	198	135	1	27826	
19,50	205	140	1	27829	
20,00	205	140	1	27832	

BROCA MANGO CILÍNDRICO COBALTO

Cobalt Straight Shank Drill Bit
Foret queue cylindrique Cobalt

Cuartos / Quarters / Quarts

Ø	1	1,5	2	2,5	3	3,25
Pcs	10	10	40	10	40	10
Ø	3,5	4	4,25	4,5	5	
Pcs	10	40	10	10	40	
Ø	5,5	6	6,5		7	
Pcs	10	40	10		10	
Ø	7,5	8	8,5		9	
Pcs	10	30	10		10	
Ø	9,5	10	11	12	13	
Pcs	10	10	5	5	5	

Nº Art. 57525: €

Previos Roscado / Before Threading / Pré-Taraudage

Ø	1	1,5	2	2,5	3	3,3
Pcs	10	10	40	10	40	10
Ø	3,5	4	4,2	4,5	5	
Pcs	10	40	10	10	40	
Ø	5,5	6	6,5		6,8	
Pcs	10	40	10		10	
Ø	7	7,5	8		8,5	
Pcs	10	10	30		10	
Ø	9	9,5	10	10,2	11	12
Pcs	10	10	10	5	5	5

Nº Art. 57978: €



Línea 1m 1016

BROCA MANGO CILÍNDRICO COBALTO

Cobalt Straight Shank Drill Bit
Foret queue cylindrique Cobalt

Cuartos / Quarters / Quarts

1,5 10	3 40	4 40	5 40	6 40	7 10	8 30	9 10	10 10	12 5	mm pcs
	2,5 10	3,5 10	4,5 10							
1 10	2 40	3,25 10	4,25 10	5,5 10	6,5 10	7,5 10	8,5 10	9,5 10	11 5	13 5
	2 40	3,3 10	4,2 10							

Nº Art. 71642: €

Previos Roscado / Before Threading / Pré-Taraudage

1,5 10	3 40	4 40	5 40	6 40	7 10	8 30	9,5 10	10,2 5	12 5	mm pcs
	2,5 10	3,5 10	4,5 10							
1 10	2 40	3,3 10	4,2 10	5,5 10	6,5 10	7,5 10	8,5 10	10 10	11 5	13 5
	2 40	3,3 10	4,2 10							

Nº Art. 71643: €



Cabinet
1016

BROCA MANGO CILÍNDRICO COBALTO

Cobalt Straight Shank Drill Bit
Foret queue cylindrique Cobalt



220 Pcs

\varnothing	1	1,5	2	2,5	3	3,5	4	4,5
Pcs	10	10	10	10	10	10	10	10
\varnothing	5	5,5	6	6,5	7			
Pcs	10	10	10	10	10			
\varnothing	7,5	8	8,5	9				
Pcs	10	10	10	10				
\varnothing	9,5	10	10,5	11				
Pcs	10	10	5	5				
\varnothing	11,5	12	12,5	13				
Pcs	5	5	5	5				

Nº Art. 55449:

€



Ref. **1006**

BROCA MANGO CILÍNDRICO COBALTO

Cobalt Straight Shank Drill Bit
Foret queue cylindrique Cobalt



PROFESSIONAL

HSSE
5% Co

DIN
338 N



Materiales Duros
Hard Materials
Matériaux durs

Aceros
<1300 N/mm²
Steel / Aciers

INOX Ferríticos-Martensíticos
Ferritic-Martensitic Stainless
INOX Ferritiques-Martensitiques

Titanio
Titanium
Titane



D mm	L mm	I mm	€	Nº Art.
1,00	34	12	2	30163
1,50	40	18	2	30164
2,00	49	24	2	18480
2,50	57	30	2	30165
2,80	61	33	2	79615
3,00	61	33	2	18481
3,25	65	36	2	30166
3,30	65	36	2	34035
3,50	70	39	2	30167
3,80	75	43	2	79616
4,00	75	43	2	18483
4,20	75	43	1	34036
4,25	75	43	1	30168
4,50	80	47	1	30169
4,80	86	52	1	79617
5,00	86	52	1	18484
5,50	93	57	1	30170
6,00	93	57	1	18486
6,50	101	63	1	30171
6,80	109	69	1	34037
7,00	109	69	1	18487
7,50	109	69	1	30172
8,00	117	75	1	18489
8,50	117	75	1	30162
9,00	125	81	1	18490
9,50	125	81	1	66997
10,00	133	87	1	18492
10,20	133	87	1	34038
10,50	133	87	1	66998
11,00	142	94	1	30161
11,50	142	94	1	66999
12,00	151	101	1	18493
12,50	151	101	1	67000
13,00	151	101	1	30160
14,00	160	108	1	79618
15,00	169	114	1	79619

* € = 2 uds.

Línea 1m 1006

BROCA MANGO CILÍNDRICO COBALTO

Cobalt Straight Shank Drill Bit
Foret queue cylindrique Cobalt



Ø	1	1,5	2	2,5	3	3,25	3,5	4	4,25	4,5	5	5,5	6	6,5	7	7,5	8	9	10
Packs	5	5	10	5	10	5	10	10	10	10	10	10	10	10	10	10	10	10	

Ref. 4995 - Nº Art. 70936: €

Display 13

BROCA MANGO CILÍNDRICO COBALTO

Cobalt Straight Shank Drill Bit
Foret queue cylindrique Cobalt



Ø	7,5	8	8,5	9	10	11	12	13
Packs	5	5	5	5	5	3	3	3
Ø	4	4,25	4,5	5	5	5,5	6	6
Packs	5	10	5	5	5	5	5	5
Ø	1	1,5	2	2,5	3	3	3,25	3,5
Packs	5	5	10	5	5	5	10	5

Ref. 4995 - Nº Art. 22181: €

Display 48

BROCA MANGO CILÍNDRICO COBALTO + PREVIOS ROSCADO

Cobalt Straight Shank Drill Bit + Before Threading
Foret Queue Cylindrique Cobalt + Pré-Taraudage



Ø	8	8,5	9	10	10,2	11	12	13
Packs	5	5	5	5	3	3	3	3
Ø	4,25	4,5	5	5	5,5	6	6,5	6,8
Packs	5	5	5	5	5	10	5	5
Ø	1	1,5	2	2,5	3	3,25	3,3	3,5
Packs	5	5	5	5	10	5	10	5

Ref. 4995 - Nº Art. 55621: €

Sets 1016

BROCA MANGO CILÍNDRICO COBALTO

Cobalt Straight Shank Drill Bit
Foret queue cylindrique Cobalt



Set 1462

6 Pcs

Cont.	Nº Art.	€
Ø		
2 - 3 - 4		
- 5 - 6 - 8	30231	
mm		



New!

Set 1459

29 Pcs

Cont.	Nº Art.	€
Ø		
1 - 13 x 0,5 mm *	15073	

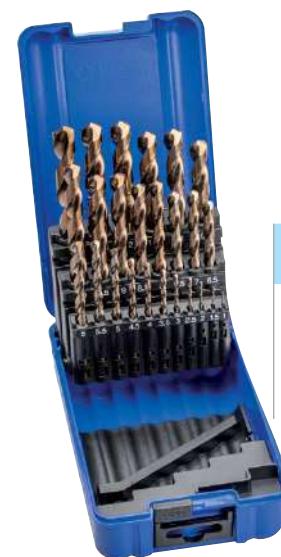
* + Previos Roscado / Before Threading
Pré-Taraudage (3,3 - 4,2 - 6,8 - 10,2 mm)



Set 1466

19 Pcs

Cont.	Nº Art.	€
Ø		
1 - 10 x 0,5 mm	25274	



Set 1456

25 Pcs

Cont.	Nº Art.	€
Ø		
1 - 13 x 0,5 mm	18370	



Box-Pallet
1016

5 Sets 1466

Nº Art.	Cont. Set	€
80664	1 - 10 x 0,5 mm	



Box-Pallet
1016

5 Sets 1456

Nº Art.	Cont. Set	€
80680	1 - 13 x 0,5 mm	

Display 24

SETS BROCAS MANGO CILINDRICO HSS + HSSE

HSS + HSSE Straight Shank Drill Bit Sets
Jeux Forets Queue Cylindrique HSS + HSSE



HSSE

	Ref. 1462 - 1016 Metal Pro 5 Pcs.	Ref. 1466 - 1016 Metal Pro 19 Pcs.	Ref. 1456 - 1016 Metal Pro 25 Pcs.
Pcs	5	1	1

HSS

	Ref. 1462 - 1010 Metal 5 Pcs.	Ref. 1466 - 1010 Metal 19 Pcs.	Ref. 1456 - 1010 Metal 25 Pcs.
Pcs	5	2	2

Ref. 4995 - Nº Art. 22320: €

Sets 1016

BROCA MANGO CILÍNDRICO COBALTO

Cobalt Straight Shank Drill Bit
Foret queue cylindrique Cobalt

Set 1407



37 Pcs

Set 1409



49 Pcs

Set 1405



50 Pcs

Cont. Ø	Nº Art.	€
1 - 10 x 0,25 mm	18367	

Cont. Ø	Nº Art.	€
1 - 13 x 0,25 mm	18369	

Cont. Ø	Nº Art.	€
1 - 5,9 x 0,1 mm	10788	

Sets 1016

BROCA MANGO CILÍNDRICO COBALTO

Cobalt Straight Shank Drill Bit
Foret queue cylindrique Cobalt

Set 1408

41 Pcs

Cont. Ø	Nº Art.	€
6 - 10 x 0,1 mm	18366	



Set 1406

91 Pcs

Cont. Ø	Nº Art.	€
1-10 x 0,10 mm	56686	



* Base roja / Red base / Base rouge

Set 1410

NOVABOX

New!



Mida y ubique las brocas en un solo movimiento

Gauge and place the drills in one single movement

Measurer et classer les forets en une seule course

- Almacene y trabaje con este juego de 55 brocas para metal
- Manejo fácil para colocar las brocas en los huecos correspondientes
- Posibilidad de colgar en la pared gracias al colgador trasero
- Storage and management in a 55 metalworking drill set
- Easy use to put drills in suitable socket
- Possibility to hang on the wall
- Stockez et travaillez avec ce jeu de 55 forets
- Utilisation facile pour ranger les forets dans le trou correspondant
- Possibilité d'accrocher au mur grâce au crochet arrière

55 Pcs

Cont. Ø	Nº Art.	€
1 - 13 x 0,5 mm Ø1,0 - 4,0 mm: 3 pcs Ø4,2 - 8,0 mm: 2 pcs Ø8,50 - 13,0 mm: 1 pcs	19537	

Agujeros para:

- Brocas desde 1 a 13 mm x 0,5 mm

- Incluye los siguientes diámetros previos al roscado:
Ø2,5 / 3,3 / 4,2 / 5,0 / 6,8 / 8,5 / 10,2 / 12,0 mm para las métricas de roscado

M3 / M4 / M5 / M6 / M8 / M10 / M12 / M14

Holes for:

- Drill diameters from 1 to 13 mm x 0,5 mm
- Includes core hole sizes:
Ø2,5 / 3,3 / 4,2 / 5,0 / 6,8 / 8,5 / 10,2 / 12,0 mm for threading dimensions
- M3 / M4 / M5 / M6 / M8 / M10 / M12 / M14

Trous pour:

- Forets de 1 à 13 mm x 0,5 mm
- Inclut les diamètres suivantes pré-taraudage:
Ø2,5 / 3,3 / 4,2 / 5,0 / 6,8 / 8,5 / 10,2 / 12,0 mm pour les métriques de taraudage
- M3 / M4 / M5 / M6 / M8 / M10 / M12 / M14

Sets 1470

170 Pcs

Cont. Ø	Nº Art.	€
1-10 x 0,5 mm Ø 1-8: 10 pcs/Ø Ø 8,5-10: 5 pcs/Ø	10676	



220 Pcs

Cont. Ø	Nº Art.	€
1-13 x 0,5 + 3,3 + 4,2 mm Ø 1-8: 10 pcs/Ø Ø 8,5-13: 5 pcs/Ø	25391	



Ref. **1020**

BROCA MANGO CILÍNDRICO COBALTO INOX

STAINLESS Cobalt Straight Shank Drill Bit

Foret queue cylindrique Cobalt INOX



SPEED MAX

HSSE
5% Co

DIN
338 W



Chapa
Sheets
Tôle

INOX
Stainless Steel
Acier INOX

Aluminio
Aluminium



D mm	L mm	I mm	Box	Nº Art.	€	D mm	L mm	I mm	Box	Nº Art.	€	D mm	L mm	I mm	Box	Nº Art.	€
1,00	34	12	10	14115		5,60	93	57	10	13987		9,40	125	81	5	14026	
1,25	38	16	10	14116		5,70	93	57	10	25134		9,50	125	81	5	16316	
1,50	40	18	10	14117		5,75	93	57	10	16299		9,60	133	87	5	14027	
2,00	49	24	10	21615		5,80	93	57	10	13989		9,70	133	87	5	14028	
2,10	49	24	10	13961		5,90	93	57	10	13991		9,75	133	87	5	69935	
2,20	53	27	10	13962		6,00	93	57	10	16302		9,80	133	87	5	14029	
2,25	53	27	10	21616		6,10	101	63	10	13993		9,90	133	87	5	14060	
2,30	53	27	10	13963		6,20	101	63	10	13994		10,00	133	87	5	16318	
2,40	57	30	10	13965		6,25	101	63	10	21627		10,10	133	87	5	14064	
2,50	57	30	10	21618		6,30	101	63	10	14002		10,20	133	87	5	14248	
2,60	57	30	10	13966		6,40	101	63	10	14003		10,25	133	87	5	21634	
2,70	61	33	10	13968		6,50	101	63	10	16304		10,30	133	87	5	74568	
2,75	61	33	10	21625		6,60	101	63	10	14004		10,40	133	87	5	74567	
2,80	61	33	10	12964		6,70	101	63	10	14005		10,50	133	87	5	16320	
2,90	61	33	10	13969		6,75	109	69	10	21628		10,60	133	87	5	74566	
3,00	61	33	10	16283		6,80	109	69	10	16306		10,70	142	94	5	74565	
3,10	65	36	10	17970		6,90	109	69	10	14006		10,75	142	94	5	69934	
3,20	65	36	10	16284		7,00	109	69	10	16307		10,80	142	94	5	14249	
3,25	65	36	10	16285		7,10	109	69	10	14007		10,90	142	94	5	74564	
3,30	65	36	10	16286		7,20	109	69	10	14008		11,00	142	94	5	16321	
3,40	70	39	10	13971		7,25	109	69	10	21631		11,10	142	94	5	30587	
3,50	70	39	10	16287		7,30	109	69	10	14009		11,20	142	94	5	14250	
3,60	70	39	10	13972		7,40	109	69	10	14010		11,25	142	94	5	69932	
3,70	70	39	10	14120		7,50	109	69	10	16309		11,30	142	94	5	74563	
3,75	70	39	10	16288		7,60	117	75	10	14011		11,40	142	94	5	74562	
3,80	75	43	10	12507		7,70	117	75	10	14012		11,50	142	94	5	16322	
3,90	75	43	10	13974		7,75	117	75	10	69940		11,60	142	94	5	74561	
4,00	75	43	10	16289		7,80	117	75	10	14013		11,70	142	94	5	74560	
4,10	75	43	10	16290		7,90	117	75	10	14014		11,75	142	94	5	69931	
4,20	75	43	10	16291		8,00	117	75	10	16311		11,80	142	94	5	14252	
4,25	75	43	10	16292		8,10	117	75	5	14015		11,90	151	101	5	74559	
4,30	80	47	10	14122		8,20	117	75	5	14016		12,00	151	101	5	16323	
4,40	80	47	10	13975		8,25	117	75	5	21633		12,10	151	101	5	74558	
4,50	80	47	10	16293		8,30	117	75	5	14017		12,20	151	101	5	14276	
4,60	80	47	10	13979		8,40	117	75	5	14018		12,25	151	101	5	69929	
4,70	80	47	10	13981		8,50	117	75	5	16313		12,30	151	101	5	74557	
4,75	80	47	10	16294		8,60	125	81	5	14019		12,40	151	101	5	74556	
4,80	86	52	10	14123		8,70	125	81	5	14020		12,50	151	101	5	16324	
4,90	86	52	10	13983		8,75	125	81	5	69938		12,60	151	101	5	74554	
5,00	86	52	10	16295		8,80	125	81	5	14021		12,70	151	101	5	74553	
5,10	86	52	10	16296		8,90	125	81	5	14022		12,75	151	101	5	69928	
5,20	86	52	10	28626		9,00	125	81	5	16314		12,80	151	101	5	14288	
5,25	86	52	10	16297		9,10	125	81	5	14023		12,90	151	101	5	74552	
5,30	86	52	10	13984		9,20	125	81	5	14024		13,00	151	101	5	16325	
5,40	93	57	10	13986		9,25	125	81	5	69937							
5,50	93	57	10	16298		9,30	125	81	5	14025							



**Expo
1020**

BROCA MANGO CILÍNDRICO COBALTO INOX

STAINLESS Cobalt Straight Shank Drill Bit

Foret queue cylindrique Cobalt INOX



Cuartos / Quarters / Quarts

Ø	1	1,5	2	2,5	3	3,25
Pcs	10	10	20	10	20	10
Ø	3,5	4	4,25	4,5	5	
Pcs	20	20	10	10	20	
Ø	5,5	6	6,5		7	
Pcs	10	20	10		10	
Ø	7,5	8	8,5		9	
Pcs	10	10	5		10	
Ø	9,5	10	11	12	13	
Pcs	5	5	5	5	5	

Nº Art. 57526: €

Previos Roscado / Before Threading / Pré-Taraudage

Ø	1	1,5	2	2,5	3	3,3
Pcs	10	10	20	10	20	10
Ø	3,5	4	4,2	4,5	5	
Pcs	20	20	10	10	20	
Ø	5,5	6	6,5		6,8	
Pcs	10	20	10		10	
Ø	7	7,5	8		8,5	
Pcs	10	10	10		5	
Ø	9	9,5	10	10,2	11	12
Pcs	10	5	5	5	5	5

Nº Art. 57979: €

Línea 1m
1020

BROCA MANGO CILÍNDRICO COBALTO INOX

STAINLESS Cobalt Straight Shank Drill Bit

Foret queue cylindrique Cobalt INOX

Cuartos / Quarters / Quarts

1,5	3	4	5	6	7	8	9	10	12	mm
10	20	20	20	20	10	10	10	5	5	pcs
	2,5	3,5	4,5							
	10	20	10							
1	2	3,25	4,25	5,5	6,5	7,5	8,5	9,5	11	13
10	20	10	10	10	10	10	5	5	5	5

Nº Art. 71644: €

Previos Roscado / Before Threading / Pré-Taraudage

1,5	3	4	5	6	7	8	9,5	10,2	12	mm
10	20	20	20	20	10	10	5	5	5	pcs
	2,5	3,5	4,5		6,8					
	10	20	10		10					
1	2	3,3	4,2	5,5	6,5	7,5	8,5	10	11	13
10	20	10	10	10	10	10	5	5	5	5

Nº Art. 71646: €

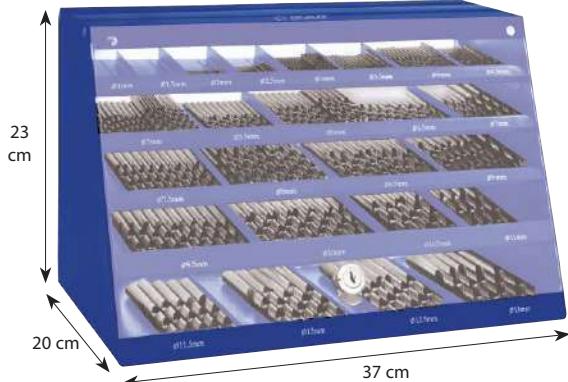


Cabinet 1020

BROCA MANGO CILÍNDRICO COBALTO INOX

STAINLESS Cobalt Straight Shank Drill Bit

Foret queue cylindrique Cobalt INOX



200 Pcs

Ø	1	1,5	2	2,5	3	3,5	4	4,5
Pcs	10	10	10	10	10	10	10	10
Ø	5	5,5	6	6,5	7			
Pcs	10	10	10	10	10			
Ø	7,5	8	8,5	9				
Pcs	10	10	5	5				
Ø	9,5	10	10,5	11				
Pcs	5	5	5	5				
Ø	11,5	12	12,5	13				
Pcs	5	5	5	5				

Nº Art. 55446: €



Ref. **1005**

BROCA MANGO CILÍNDRICO COBALTO INOX

STAINLESS Cobalt Straight Shank Drill Bit

Foret queue cylindrique Cobalt INOX



SPEED MAX

HSSE
5% Co

DIN
338 W



**Chapa
Sheets**
Tôle

INOX
Stainless Steel
Acier INOX

Aluminio
Aluminium



D mm	L mm	I mm		Nº Art.	€
1,00	34	12	2	70000	*
1,50	38	16	2	70001	*
2,00	49	24	2	24757	*
2,50	57	30	2	24758	*
3,00	61	33	2	24759	*
3,25	65	36	2	24760	*
3,30	65	36	2	55632	*
3,50	70	39	2	24761	*
4,00	75	43	2	24762	*
4,20	75	43	1	55635	
4,25	75	43	1	24763	
4,50	80	47	1	24764	
5,00	86	52	1	24765	
5,50	93	57	1	24766	
6,00	93	57	1	24767	
6,50	101	63	1	24768	
6,80	109	69	1	55636	
7,00	109	69	1	24769	
7,50	109	69	1	24770	
8,00	117	75	1	24771	
8,50	117	75	1	24772	
9,00	125	81	1	24773	
10,00	133	87	1	24774	
10,20	133	87	1	55638	
11,00	142	94	1	24775	
12,00	151	101	1	24776	
13,00	151	101	1	24777	

Doble Blister
ref. M020
pag. 371



* € = 2 uds.





Línea 1m 1005



BROCA MANGO CILÍNDRICO COBALTO INOX

STAINLESS Cobalt Straight Shank Drill Bit

Foret queue cylindrique Cobalt INOX

Ø	1	1,5	2	2,5	3	3,25	3,5	4	4,25	4,5	5	5,5	6	6,5	7	7,5	8	9	10
Packs	3	3	5	5	10	5	5	10	5	5	10	5	10	5	5	3	5	3	3

Ref. 4995 - Nº Art. 70940: €

Display 16



BROCA MANGO CILÍNDRICO COBALTO INOX

STAINLESS Cobalt Straight Shank Drill Bit

Foret queue cylindrique Cobalt INOX

Ø	7,5	8	8,5	9	10	11	12	13		
Packs	5	5	5	5	3	2	2	2		
Ø	4,25	4,25	4,5	5	5,5	6	6	6,5	7	
Packs	3	2	5	5	5	3	2	5	5	
Ø	2	2,5	2,5	3	3	3,25	3,5	3,5	4	4
Packs	5	3	2	5	5	5	3	2	5	5

Ref. 4995 - Nº Art. 22497: €

Display 49



BROCA MANGO CILÍNDRICO COBALTO INOX + PREVIOS ROSCADO

STAINLESS Cobalt Straight Shank Drill Bit + Before Threading

Foret queue cylindrique Cobalt INOX + Pré-Taraudage

Ø	8	8,5	9	10	10,2	11	12	13		
Packs	5	3	3	3	3	2	2	2		
Ø	4,25	4,5	5	5	5,5	6	6,5	6,8	7	7,5
Packs	5	5	5	5	5	10	5	5	5	3
Ø	2	2,5	3	3	3,25	3,3	3,5	4	4	4,2
Packs	5	5	5	5	5	5	5	5	5	5

Ref. 4995 - Nº Art. 55629: €

Sets 1020

BROCA MANGO CILÍNDRICO COBALTO INOX

STAINLESS Cobalt Straight Shank Drill Bit

Foret queue cylindrique Cobalt INOX



Set 1462

6 Pcs

Cont.	Nº Art.	€
Ø		
2 - 3 - 4		
- 5 - 6 - 8	25367	
mm		

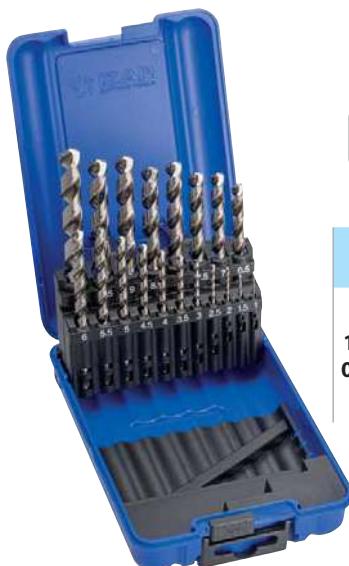
New!

Set 1459

29 Pcs

Cont.	Nº Art.	€
Ø		
1 - 13 x 0,5 mm *	15113	

* + Previos Roscado / Before Threading
Pré-Taraudage (3,3 - 4,2 - 6,8 - 10,2 mm)



Set 1466

19 Pcs

Cont.	Nº Art.	€
Ø		
1 - 10 x 0,5 mm	24636	



Set 1456

25 Pcs

Cont.	Nº Art.	€
Ø		
1 - 13 x 0,5 mm	24638	



Box-Pallet
1020

5 Sets 1466

Nº Art.	Cont. Set	€
80667	1 - 10 x 0,5 mm	



Box-Pallet
1020

5 Sets 1456

Nº Art.	Cont. Set	€
80682	1 - 13 x 0,5 mm	



Ref. **1027**

BROCA MANGO REBAJADO COBALTO

Cobalt Reduced Shank Drill Bit

Foret queue reduite Cobalt



**HSSE
5% Co**

DIN
338 N



**Aceros
<1300 N/mm²
Steel / Aciers**

**INOX Ferríticos-Martensíticos
Ferritic-Martensitic Stainless
INOX Ferritiques-Martensitiques**

**Titanio
Titanium
Titane**



D mm	d mm	L mm	I mm	Unit	Nº Art.	€
10,50	10,00	133	87	1	54954	
11,00	10,00	142	94	1	54955	
11,50	10,00	142	94	1	54956	
12,00	10,00	151	101	1	22346	
12,50	10,00	151	101	1	54957	
13,00	10,00	151	101	1	22347	
13,50	12,70	160	108	1	49200	
14,00	12,70	160	108	1	22344	
14,50	12,70	169	114	1	49201	
15,00	12,70	169	114	1	22348	
15,50	12,70	178	120	1	49223	
16,00	12,70	178	120	1	22349	
16,50	12,70	184	125	1	54979	
17,00	12,70	184	125	1	22350	
17,50	12,70	191	130	1	54958	
18,00	12,70	191	130	1	22351	
18,50	12,70	198	135	1	54959	
19,00	12,70	198	135	1	22353	
19,50	12,70	205	140	1	54960	
20,00	12,70	205	140	1	22354	
20,50	12,70	205	145	1	66946	
21,00	12,70	205	145	1	66941	
21,50	12,70	210	150	1	66945	
22,00	12,70	210	150	1	66940	
22,50	12,70	210	150	1	66944	
23,00	12,70	210	150	1	66939	
23,50	12,70	220	160	1	66943	
24,00	12,70	220	160	1	66938	
24,50	12,70	220	160	1	66942	
25,00	12,70	220	160	1	66937	

Línea 1m
1027

BROCA MANGO REBAJADO COBALTO

Cobalt Reduced Shank Drill Bit

Foret queue reduite Cobalt



Ø	12	12,5	13	13,5	14	15	15,5	16	16,5	17	17,5	18	18,5	19	19,5	20
Pcs	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Ref. 4995 - Nº Art. 72076: €



Ref. **9015**

BROCA ROMPE BOMBILLOS CERRADURAS

Cylinder Lock Breaker Drill Bit
Foret destructeur de trous de serrure



MD
HM
Carbure



D mm	d mm	L mm	I mm	Nº Art.	€
6	6	60	34	70727	



- Metal Duro monoblock de última generación
- Punta auto centrante
- Afilado especial IZAR
- Precisión y buen acabado
- Apto para bombillos de latón y acero o bombillos de seguridad.
- Last generation monoblock Solid Carbide
- Autocentering point
- IZAR special Sharpening
- Good Precision and Finishing
- Suitable for brass, steel or security cylinder locks
- Carbure monoblock dernière génération
- Pointe autocentrente
- Affûtage spéciale IZAR
- Précision et bonne qualité de finition
- Conçu pour serrure en laiton et acier ou serrure de sécurité

Ref. **9289**

FRESA MICROGRANO CERRADURAS

Lock Micrograin End Mill
Fraise micrograin serrures

New!



MD
HM
Carbure



D mm	d mm	L mm	I mm	Nº Art.	€	Nº Art. ALTIN	€
3	6	60	15	53893		14935	
4	6	60	15	53894		14941	
6	6	60	18	53895		14944	

Set
9015

SET CERRAJEROS

Locksmith Set
Jeu serruriers

New!



4 Pcs

Cont.	Nº Art.	€
Ref. 9015: ø 6 mm	53879	
Ref. 9289: ø 3-4-6 mm		

Ref. **9100**

BROCA MANGO CILÍNDRICO PUNTA METAL DURO

Carbide Tipped Straight Shank Drill Bit
Foret queue cylindrique pointe carbure



MD
HM
Carbure

DIN
338 N



Aceros
<1000 N/mm²
Steel / Aciers

Aceros
<1300 N/mm²
Steel / Aciers

Fundición
Cast Iron
Fonte

Titánio
Titanium
Titane

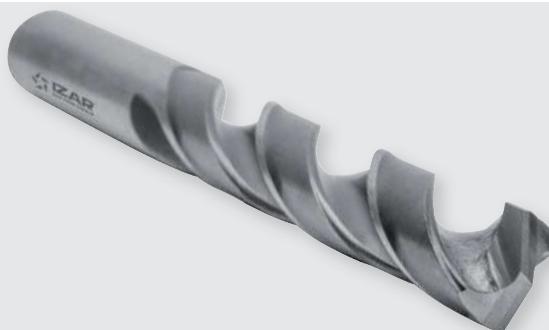
Cobre
Copper
Cuivre

Duroplásticos
Hard Plastics
Plastiques durs



D mm	L mm	I mm		Nº Art.	€
2,00	49	24	1	71429	
2,50	57	30	1	71444	
2,70	57	30	1	46916	
3,00	61	33	1	71459	
3,10	61	33	1	46917	
3,20	65	36	1	23058	
3,30	65	36	1	26716	
3,40	70	39	1	29479	
3,50	70	39	1	71474	
3,60	70	39	1	52285	
4,00	75	43	1	71489	
4,10	75	43	1	46918	
4,20	75	43	1	22016	
4,50	80	47	1	71504	
4,60	80	47	1	26963	
4,70	80	47	1	17101	
4,80	86	52	1	26964	
5,00	86	52	1	71516	
5,10	86	52	1	23059	
5,20	86	52	1	67682	
5,50	93	57	1	71531	
5,60	93	57	1	32603	
5,70	93	57	1	23889	
5,80	93	57	1	54039	
6,00	93	57	1	71543	
6,10	101	63	1	23891	
6,20	101	63	1	32691	

D mm	L mm	I mm		Nº Art.	€
6,30	101	63	1	32692	
6,50	101	63	1	71558	
6,60	101	63	1	30614	
6,80	109	69	1	23893	
7,00	109	69	1	71573	
7,50	109	69	1	71585	
7,80	117	75	1	23914	
8,00	117	75	1	71600	
8,50	117	75	1	71615	
8,60	125	81	1	27007	
9,00	125	81	1	71630	
9,50	125	81	1	71645	
10,00	133	87	1	71660	
10,20	133	87	1	27008	
10,50	133	87	1	71663	
11,00	142	94	1	71666	
11,50	142	94	1	71672	
12,00	151	101	1	71675	
12,50	151	101	1	71681	
13,00	151	101	1	71684	
14,00	160	108	1	71690	
15,00	169	114	1	71696	
16,00	178	120	1	71702	
17,00	184	125	1	71705	
18,00	191	130	1	71711	
19,00	198	135	1	71717	
20,00	205	140	1	71723	





Ref. 1015

BROCA MANGO CILÍNDRICO ZIRKONIO

Zirkonio Straight Shank Drill Bit
Foret queue cylindrique ZirkonioEspecial
Multi
METAL

ZIRKON

HSS
+
ZirkonioDIN
338 NTol. D
h8Aceros
<850 N/mm²
Steel / AciersFundición
Cast Iron
FonteAluminio
Aluminum

Video



Angulo punta 130°

- Autocentradora
- Ideal taladro portátil
- Geometría especial diseñada para reducir el esfuerzo de corte



130° Point Angle

- Autocentering
- Ideal Portable Drilling Machine
- Special Geometry designed for reducing cutting effort

Angle Pointe 130°

- Autoentreur
- Perceuse à main
- Géométrie pour réduire l'effort de coupe

Nuevo recubrimiento Zirkonio de última generación por PVD

- Basado en ZRN
- Bajo coeficiente de fricción
- Muy resistente a la corrosión
- Adecuado para materiales no ferrosos
- Evita la adherencia de material en el filo de corte



Latest generation Zirkonio coating by PVD

- Based on ZRN
- Low Friction Coefficient
- High Corrosion Resistant

- Appropriate for Non-Ferrous Materials
- Built-Up Edge avoided

Nouveau revêtement Zirkonio dernière génération par PVD

- Base ZRN
- Faible coefficient friction
- Résistant à l'usure

- Recommendé pour aciers non ferreux
- Évite l'adhérence sur les filets de coupe

D mm	L mm	I mm		Nº Art.	€
1,00	34	12	10	59101	
1,10	36	14	10	62815	
1,20	38	16	10	62819	
1,25	38	16	10	68271	
1,30	38	16	10	62820	
1,40	40	18	10	62821	
1,50	40	18	10	59103	
1,60	43	20	10	62822	
1,70	43	20	10	62823	
1,75	46	22	10	68274	
1,80	46	22	10	62824	
1,90	46	22	10	62826	
2,00	49	24	10	59100	
2,10	49	24	10	62827	
2,20	53	27	10	62828	
2,25	53	27	10	68363	
2,30	53	27	10	62829	
2,40	57	30	10	62830	
2,50	57	30	10	59104	
2,60	57	30	10	62831	
2,70	61	33	10	62832	
2,75	61	33	10	68364	
2,80	61	33	10	62833	
2,90	61	33	10	62834	
3,00	61	33	10	59115	
3,10	65	36	10	62835	
3,20	65	36	10	59118	
3,25	65	36	10	59121	
3,30	65	36	10	59124	
3,40	70	39	10	62836	
3,50	70	39	10	59127	
3,60	70	39	10	62837	

D mm	L mm	I mm		Nº Art.	€
3,70	70	39	10	62838	
3,75	70	39	10	68365	
3,80	75	43	10	62839	
3,90	75	43	10	62841	
4,00	75	43	10	59131	
4,10	75	43	10	62842	
4,20	75	43	10	59133	
4,25	75	43	10	59134	
4,30	80	47	10	62843	
4,40	80	47	10	62844	
4,50	80	47	10	59137	
4,60	80	47	10	62845	
4,70	80	47	10	62846	
4,75	80	47	10	68350	
4,80	86	52	10	62847	
4,90	86	52	10	62848	
5,00	86	52	10	58831	
5,10	86	52	10	62849	
5,20	86	52	10	59139	
5,25	86	52	10	68366	
5,30	86	52	10	62850	
5,40	93	57	10	62851	
5,50	93	57	10	59140	
5,60	93	57	10	62852	
5,70	93	57	10	62853	
5,75	93	57	10	68367	
5,80	93	57	10	62854	
5,90	93	57	10	62855	
6,00	93	57	10	59145	
6,10	101	63	10	62856	
6,20	101	63	10	62857	
6,25	101	63	10	68368	

D mm	L mm	I mm		Nº Art.	€
6,30	101	63	10	62858	
6,40	101	63	10	62859	
6,50	101	63	10	59148	
6,60	101	63	10	62860	
6,70	101	63	10	62861	
6,75	109	69	10	68369	
6,80	109	69	10	59149	
6,90	109	69	10	62862	
7,00	109	69	10	59151	
7,10	109	69	10	62863	
7,20	109	69	10	62864	
7,25	109	69	10	68370	
7,30	109	69	10	62865	
7,40	109	69	10	62866	
7,50	109	69	10	59155	
7,60	117	75	10	62867	
7,70	117	75	10	62868	
7,75	117	75	10	68371	
7,80	117	75	10	62869	
7,90	117	75	10	62870	
8,00	117	75	10	59157	
8,10	117	75	5	62871	
8,20	117	75	5	62872	
8,25	117	75	5	68372	
8,30	117	75	5	62873	
8,40	117	75	5	62874	
8,50	117	75	5	59158	
8,60	125	81	5	62875	
8,70	125	81	5	62876	
8,75	125	81	5	68373	
8,80	125	81	5	62877	
8,90	125	81	5	62878	

Ref. **1015**

BROCA MANGO CILÍNDRICO ZIRKONIO

Zirkonio Straight Shank Drill Bit
Foret queue cylindrique Zirkonio

Especial
**Multi
METAL**

D mm	L mm	I mm		Nº Art.	€
9,00	125	81	5	59161	
9,10	125	81	5	62879	
9,20	125	81	5	62880	
9,25	125	81	5	68374	
9,30	125	81	5	62881	
9,40	125	81	5	62882	
9,50	125	81	5	59163	
9,60	133	87	5	62883	
9,70	133	87	5	62884	
9,75	133	87	5	68375	
9,80	133	87	5	62886	
9,90	133	87	5	62887	
10,00	133	87	5	59164	
10,10	133	87	5	62888	
10,20	133	87	5	59166	
10,30	133	87	5	62889	

D mm	L mm	I mm		Nº Art.	€
10,40	133	87	5	62890	
10,50	133	87	5	59167	
10,60	133	87	5	62892	
10,70	142	94	5	62893	
10,80	142	94	5	62895	
10,90	172	94	5	62896	
11,00	142	94	5	59170	
11,10	142	94	5	62898	
11,20	142	94	5	62900	
11,30	142	94	5	62902	
11,40	142	94	5	62904	
11,50	142	94	5	59172	
11,60	172	94	5	62905	
11,70	142	94	5	62907	
11,80	142	94	5	62908	
11,90	151	101	5	62909	

D mm	L mm	I mm		Nº Art.	€
12,00	151	101	5	59173	
12,10	151	101	5	62910	
12,20	151	101	5	62918	
12,30	151	101	5	62921	
12,40	151	101	5	62923	
12,50	151	101	5	59176	
12,60	151	101	5	62927	
12,70	151	101	5	62930	
12,80	151	101	5	62932	
12,90	151	101	5	62934	
13,00	151	101	5	59179	
13,50	160	108	1	25147	
14,00	160	108	1	25154	
14,50	169	114	1	25155	
15,00	169	114	1	25156	
16,00	178	120	1	25157	

Expo
1015

BROCA MANGO CILÍNDRICO ZIRKONIO

Zirkonio Straight Shank Drill Bit
Foret queue cylindrique Zirkonio

Cuartos / Quarters / Quarts

Ø	1	1,5	2	2,5	3	3,25
Pcs	10	10	30	10	50	10
Ø	3,5	4	4,25	4,5	5	
Pcs	10	50	10	10	40	
Ø	5,5	6	6,5	7		
Pcs	10	50	10	10	10	
Ø	7,5	8	8,5	9		
Pcs	10	20	10	10	10	
Ø	9,5	10	11	12	13	
Pcs	5	10	5	5	5	

Nº Art. 15999: €

Previos Roscado / Before Threading / Pré-Taraudage

Ø	1	1,5	2	2,5	3	3,3	
Pcs	10	10	30	10	50	10	
Ø	3,5	4	4,2	4,5	5		
Pcs	10	50	10	10	40		
Ø	5,5	6	6,5	6,8			
Pcs	10	50	10	10	10		
Ø	7	7,5	8	8,5			
Pcs	10	10	20	20	10		
Ø	9	9,5	10	10,2	11	12	13
Pcs	10	5	10	5	5	5	5

Nº Art. 16001: €



Línea 1m 1015

BROCA MANGO CILÍNDRICO ZIRKONIO

Zirkonio Straight Shank Drill Bit
Foret queue cylindrique Zirkonio

Cuartos / Quarters / Quarts

	3 50	4 50	5 40	6 50	7 10	8 20	9 10	10 10	12 5	mm pcs
1,5 10	2,5 10	3,5 10	4,5 10							
1 10	2 30	3,25 10	4,25 10							

Nº Art. 71396: €



Cabinet 1015

BROCA MANGO CILÍNDRICO ZIRKONIO

Zirkonio Straight Shank Drill Bit
Foret queue cylindrique Zirkonio

ø	1	1,5	2	2,5	3	3,5	4	4,5
Pcs	10	10	10	10	10	10	10	10
ø	5	5,5	6	6,5	7			
Pcs	10	10	10	10	10			
ø	7,5	8	8,5	9				
Pcs	10	10	5	5				
ø	9,5	10	10,5	11				
Pcs	5	5	5	5				
ø	11,5	12	12,5	13				
Pcs	5	5	5	5				

Nº Art. 14229: €



200 Pcs

Ref. 1065

BROCA MANGO CILÍNDRICO ZIRKONIO

Zirkonio Straight Shank Drill Bit
Foret queue cylindrique Zirkonio

New!



HSS
+
Zirkonio

DIN
338 N



Aceros
<850 N/mm²
Steel / Aciers

Fundición
Cast Iron
Fonte

Aluminio
Aluminum

Tol. D
h8



D mm	L mm	I mm	---	Nº Art.	€	D mm	L mm	I mm	---	Nº Art.	€
1,00	34	12	2	14509	*	6,80	109	69	1	25971	
1,50	40	18	2	14547	*	7,00	109	69	1	14787	
2,00	49	24	2	14592	*	7,50	109	69	1	14794	
2,50	57	30	2	14640	*	8,00	117	75	1	14796	
3,00	61	33	2	14682	*	8,50	117	75	1	14799	
3,25	65	36	2	14694	*	9,00	125	81	1	14805	
3,30	65	36	2	14700	*	9,50	125	81	1	14809	
3,50	70	39	2	14731	*	10,00	133	87	1	14811	
4,00	75	43	2	14734	*	10,20	133	87	1	14812	
4,20	75	43	1	14743		10,50	133	87	1	14814	
4,25	75	43	1	14749		11,00	142	94	1	14818	
4,50	80	47	1	14757		11,50	142	94	1	14821	
5,00	86	52	1	14758		12,00	151	101	1	14823	
5,50	93	57	1	14772	*	12,50	151	101	1	40206	
6,00	93	57	1	14776		13,00	151	101	1	14824	
6,50	101	63	1	14784							

* € = 2 uds.



Sets 1015

BROCA MANGO CILÍNDRICO ZIRKONIO

Zirkonio Straight Shank Drill Bit
Foret queue cylindrique Zirkonio



Set 1462

6 Pcs

Cont.	Ø	Nº Art.	€
2 - 3 - 4 - 5		59236	
- 6 - 8 mm			



New! Set 1459

29 Pcs

Cont.	Ø	Nº Art.	€
1 - 13 x 0,5 mm *		15115	

* + Previos Roscado
Before Threading
Pré-Taraudage
(3,3 - 4,2 - 6,8 - 10,2 mm)

Set 1406

91 Pcs

Cont.	Ø	Nº Art.	€
1-10 x 0,10 mm		66483	



* Base roja / Red base / Base rouge

Set 1410

NOVABOX

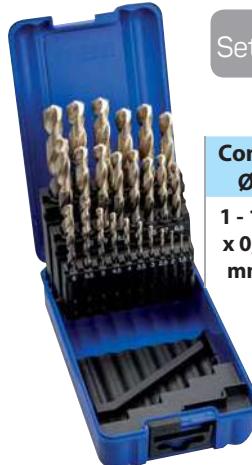
New!



Set 1466

19 Pcs

Cont.	Ø	Nº Art.	€
1 - 10 x 0,5 mm		59234	



Set 1456

25 Pcs

Cont.	Ø	Nº Art.	€
1 - 13 x 0,5 mm		59235	

55 Pcs

Cont.	Ø	Nº Art.	€
1 - 13 x 0,5 mm Ø1,0 - 4,0 mm: 3 pcs Ø4,2 - 8,0 mm: 2 pcs Ø8,50 - 13,0 mm: 1 pcs		28360	



Box-Pallet
1015

5 Sets 1466

Cont.	Set	Nº Art.	€
1 - 10 x 0,5 mm		80662	



Box-Pallet
1015

5 Sets 1456

Cont.	Set	Nº Art.	€
1 - 13 x 0,5 mm		80678	

Ref. **1010**

BROCA MANGO CILÍNDRICO HSS

HSS Straight Shank Drill Bit
Foret queue cylindrique HSS



CLASSIQUE



HSS + TIN

DIN 338 N



Uso General
General Purpose
Utilisation générale

Aceros <850 N/mm²
Steel / Aciers

Fundición Cast Iron Fonte

Aluminio Aluminium



D mm	L mm	I mm	📦	Nº Art. HSS	€	Nº Art. TIN	€
0,30	19	3	10	17996			
0,35	19	4	10	17999			
0,40	20	5	10	18002			
0,45	20	5	10	18005			
0,50	22	6	10	18008			
0,55	24	7	10	18011			
0,60	24	7	10	18014			
0,65	26	8	10	18017			
0,70	28	9	10	18020			
0,75	28	9	10	18023			
0,80	30	10	10	18026			
0,85	30	10	10	18029			
0,90	32	11	10	18032			
0,95	32	11	10	18035			
1,00	34	12	10	10001	18305		
1,05	34	12	10	18038			
1,10	36	14	10	10004	15056		
1,15	36	14	10	18041			
1,20	38	16	10	10007	18308		
1,25	38	16	10	10010	27087		
1,30	38	16	10	10013	18311		
1,35	40	18	10	18050			
1,40	40	18	10	10016	27337		
1,45	40	18	10	18053			
1,50	40	18	10	10019	18314		
1,55	43	20	10	18059			
1,60	43	20	10	10022	18317		
1,65	43	20	10	18062			
1,70	43	20	10	10025	18320		
1,75	46	22	10	10028	18323		
1,80	46	22	10	10031	18326		
1,85	46	22	10	18068			
1,90	46	22	10	10034	18329		
1,95	49	24	10	18071			
2,00	49	24	10	10037	18332		
2,05	49	24	10	18074			
2,10	49	24	10	10040	18335		
2,15	53	27	10	18077			

D mm	L mm	I mm	📦	Nº Art. HSS	€	Nº Art. TIN	€
2,20	53	27	10	10043		18338	
2,25	53	27	10	10046		18341	
2,30	53	27	10	10049		18344	
2,35	53	27	10	18080			
2,40	57	30	10	10052		18347	
2,45	57	30	10	18083			
2,50	57	30	10	10055		18350	
2,55	57	30	10	18086			
2,60	57	30	10	10058		18353	
2,65	57	30	10	18089			
2,70	61	33	10	10061		27166	
2,75	61	33	10	10064		18356	
2,80	61	33	10	10067		18359	
2,85	61	33	10	18092			
2,90	61	33	10	10070		27088	
2,95	61	33	10	18095			
3,00	61	33	10	10073		18362	
3,05	65	36	10	18098		17358	
3,10	65	36	10	10076		18365	
3,15	65	36	10	27343		29078	
3,20	65	36	10	10079		18368	
3,25	65	36	10	10082		18371	
3,30	65	36	10	10085		18374	
3,35	65	36	10	27345			
3,40	70	39	10	10088		27322	
3,45	70	39	10	27346		21777	
3,50	70	39	10	10091		18377	
3,55	70	39	10	18101			
3,60	70	39	10	10094		27323	
3,65	70	39	10	18104			
3,70	70	39	10	10097		18380	
3,75	70	39	10	10100		18383	
3,80	75	43	10	10103		18386	
3,85	75	43	10	18107		79546	
3,90	75	43	10	10106		27165	
3,95	75	43	10	18110			
4,00	75	43	10	10109		18389	
4,05	75	43	10	27349			



Ref. 1010

BROCA MANGO CILÍNDRICO HSS

HSS Straight Shank Drill Bit
Foret queue cylindrique HSS

D mm	L mm	I mm		Nº Art. HSS	€	Nº Art. TIN	€
4,10	75	43	10	10112		18392	
4,15	75	43	10	27350			
4,20	75	43	10	10115		18395	
4,25	75	43	10	10118		18398	
4,30	80	47	10	10121		18401	
4,35	80	47	10	18113			
4,40	80	47	10	10124		18404	
4,45	80	47	10	18116			
4,50	80	47	10	10127		18407	
4,55	80	47	10	27288			
4,60	80	47	10	10130		18410	
4,65	80	47	10	27352			
4,70	80	47	10	10133		18413	
4,75	80	47	10	10136		18416	
4,80	86	52	10	10139		18419	
4,85	86	52	10	18119			
4,90	86	52	10	10142		18422	
4,95	86	52	10	18122			
5,00	86	52	10	10145		18425	
5,05	86	52	10	18125		21749	
5,10	86	52	10	10148		18428	
5,15	86	52	10	27330			
5,20	86	52	10	10151		18431	
5,25	86	52	10	10154		18434	
5,30	86	52	10	10157		18437	
5,35	93	57	10	18131			
5,40	93	57	10	10160		27292	
5,45	93	57	10	27354			
5,50	93	57	10	10163		18440	
5,55	93	57	10	27356		65683	
5,60	93	57	10	10166		18443	
5,65	93	57	10	18134			
5,70	93	57	10	10169		18446	
5,75	93	57	10	10172		18449	
5,80	93	57	10	10175		18452	
5,85	93	57	10	27357			
5,90	93	57	10	10178		18455	
5,95	93	57	10	27358			
6,00	93	57	10	10181		18458	
6,05	101	63	10	27359		17594	
6,10	101	63	10	10184		18461	
6,15	101	63	10	27360		79817	
6,20	101	63	10	10187		18464	
6,25	101	63	10	10190		18467	
6,30	101	63	10	10193		27324	
6,35	101	63	10	27361			
6,40	101	63	10	10196		18470	
6,45	101	63	10	18137			
6,50	101	63	10	10199		18473	
6,55	101	63	10	18140			
6,60	101	63	10	10202		18476	
6,65	101	63	10	27362			
6,70	101	63	10	10205		27333	
6,75	109	69	10	10208		18479	
6,80	109	69	10	10211		18482	
6,85	109	69	10	18143			
6,90	109	69	10	10214		18485	
6,95	109	69	10	27316			
7,00	109	69	10	10217		18488	
7,05	109	69	10	27363		79818	

D mm	L mm	I mm		Nº Art. HSS	€	Nº Art. TIN	€
7,10	109	69	10	10220			18491
7,15	109	69	10	27364			18494
7,20	109	69	10	10223			18497
7,25	109	69	10	10226			18500
7,30	109	69	10	10229			27150
7,35	109	69	10	27365			
7,40	109	69	10	10232			
7,45	109	69	10	27366			
7,50	109	69	10	10235			18503
7,55	117	75	10	27369			
7,60	117	75	10	10238			27313
7,65	117	75	10	27368			
7,70	117	75	10	10241			18506
7,75	117	75	10	10244			27272
7,80	117	75	10	10247			18509
7,85	117	75	10	27370			
7,90	117	75	10	10250			18512
7,95	117	75	10	27372			
8,00	117	75	10	10253			18515
8,05	117	75	10	27373			39695
8,10	117	75	10	10256			26675
8,15	117	75	10	27374			
8,20	117	75	10	10259			26678
8,25	117	75	10	10262			18518
8,30	117	75	10	10265			27311
8,35	117	75	10	27376			
8,40	117	75	10	10268			26681
8,45	117	75	10	27377			
8,50	117	75	10	10271			18521
8,55	125	81	10	27378			
8,60	125	81	10	10274			18524
8,65	125	81	10	27379			
8,70	125	81	10	10277			18527
8,75	125	81	10	10280			18530
8,80	125	81	10	10283			18533
8,85	125	81	10	27381			
8,90	125	81	10	10286			18536
8,95	125	81	10	27383			
9,00	125	81	10	10289			18539
9,05	125	81	10	27382			
9,10	125	81	10	10292			26684
9,15	125	81	10	27385			
9,20	125	81	10	10295			27553
9,25	125	81	10	10298			27273
9,30	125	81	10	10301			18542
9,35	125	81	10	27556			
9,40	125	81	10	10304			27149
9,45	125	81	10	27387			
9,50	125	81	10	10307			18545
9,55	133	87	10	27389			
9,60	133	87	10	10310			26687
9,65	133	87	10	27390			
9,70	133	87	10	10313			27151
9,75	133	87	10	10316			18548
9,80	133	87	10	10319			18551
9,85	133	87	10	27391			
9,90	133	87	10	10322			18554
9,95	133	87	10	27393			
10,00	133	87	10	10325			18557
10,10	133	87	5	10328			29149



Ref. 1010

BROCA MANGO CILÍNDRICO HSS

HSS Straight Shank Drill Bit
Foret queue cylindrique HSS

D mm	L mm	I mm		Nº Art. HSS	€	Nº Art. TIN	€	D mm	L mm	I mm		Nº Art. HSS	€	Nº Art. TIN	€
10,20	133	87	5	10331		18560		13,80	160	108	1	18176		24664	
10,25	133	87	5	10334		27274		13,90	160	108	1	10451		68188	
10,30	133	87	5	10337		29151		14,00	160	108	1	10454		29007	
10,40	133	87	5	10340				14,10	169	114	1	18179			
10,50	133	87	5	10343		18563		14,20	169	114	1	18185			
10,60	133	87	5	10346		29154		14,25	169	114	1	10457		29194	
10,70	142	94	5	10349				14,30	169	114	1	18188			
10,75	142	94	5	10352		27277		14,40	169	114	1	18191			
10,80	142	94	5	10355		29157		14,50	169	114	1	10460		29198	
10,90	142	94	5	10358				14,60	169	114	1	18194			
11,00	142	94	5	10361		18566		14,70	169	114	1	18197			
11,10	142	94	5	10364				14,75	169	114	1	10463		29202	
11,20	142	94	5	10367				14,80	169	114	1	18200			
11,25	142	94	5	10370		26801		14,90	169	114	1	18203			
11,30	142	94	5	10373				15,00	169	114	1	10466		29205	
11,40	142	94	5	10376		27450		15,20	178	120	1	18209			
11,50	142	94	5	10379		18569		15,25	178	120	1	10469		29209	
11,60	142	94	5	10382				15,50	178	120	1	10472		29213	
11,70	142	94	5	10385				15,60	178	120	1	18218			
11,75	142	94	5	10388		27275		15,70	178	120	1	18221			
11,80	142	94	5	10391		29166		15,75	178	120	1	10475			
11,90	151	101	5	10394		29167		15,80	178	120	1	18224			
12,00	151	101	5	10397		18572		15,90	178	120	1	18227			
12,10	151	101	5	10400		29169		16,00	178	120	1	10478		29220	
12,20	151	101	5	10403				16,20	184	125	1	27289			
12,25	151	101	5	10406		18578		16,25	184	125	1	10481			
12,30	151	101	5	10409				16,50	184	125	1	10484		12861	
12,40	151	101	5	10412				16,75	184	125	1	10487		19368	
12,50	151	101	5	10415		18581		16,80	184	125	1	27676		19369	
12,60	151	101	5	10418				17,00	184	125	1	10490		12866	
12,70	151	101	5	10421				17,25	191	130	1	10493			
12,75	151	101	5	10424		27276		17,50	191	130	1	10496		12862	
12,80	151	101	5	10427				17,75	191	130	1	10499			
12,90	151	101	5	10430				18,00	191	130	1	10502		29236	
13,00	151	101	5	10433		18584		18,25	198	135	1	10505			
13,10	151	101	1	10436				18,50	198	135	1	10508			
13,20	151	101	1	18164				18,75	198	135	1	10511			
13,25	160	108	1	10439		29180		19,00	198	135	1	10514		14065	
13,30	160	108	1	18167				19,25	205	140	1	10517			
13,40	160	108	1	18170				19,50	205	140	1	10520			
13,50	160	108	1	10442		29184		19,75	205	140	1	10523			
13,60	160	108	1	18173				20,00	205	140	1	10526			
13,70	160	108	1	10445											
13,75	160	108	1	10448		16497									

Ref. 1050



Extra-Corta / Stub / Extra-courte

Pag 69

Ref. 1030



Larga / Long / Longue

Pag 70

Ref. 1040



Extra Larga / Extra Long / Extra-longue

Pag 74

Expo 1010

BROCA MANGO CILÍNDRICO HSS

HSS Straight Shank Drill Bit
Foret queue cylindrique HSS

Cuartos / Quarters / Quarts

Ø	1	1,5	2	2,5	3	3,25
Pcs	30	20	40	30	80	20
Ø	3,5	4	4,25	4,5	5	
Pcs	20	60	10	20	80	
Ø	5,5	6	6,5	7		
Pcs	10	60	20	20		
Ø	7,5	8	8,5	9		
Pcs	10	40	10	10		
Ø	9,5	10	11	12	13	
Pcs	10	30	15	20	10	

Nº Art. 57523: €

Previos Roscado / Before Threading / Pré-Taraudage

Ø	1	1,5	2	2,5	3	3,3	
Pcs	30	20	40	30	80	20	
Ø	3,5	4	4,2	4,5	5		
Pcs	20	60	10	20	80		
Ø	5,5	6	6,5	7			
Pcs	10	60	20	20			
Ø	7	7,5	8	8,5			
Pcs	20	10	40	10			
Ø	9	9,5	10	10,2	11	12	13
Pcs	10	10	30	10	15	20	10

Nº Art. 57975: €

Línea 1m 1010

BROCA MANGO CILÍNDRICO HSS

HSS Straight Shank Drill Bit
Foret queue cylindrique HSS

Cuartos / Quarters / Quarts

1,5	3 80	4 60	5 80	6 60	7 20	8 40	9 10 10 10	10 30 10 10	12 20 15 15	mm pcs
20	2,5 30	3,5 20	4,5 20							
1	2 40	3,25 20	4,25 10	5,5 10	6,5 20	7,5 10	8,5 10 9,5 10	10,2 30 10 10	12 20 15 15	mm pcs
30										

Nº Art. 70965: €

Previos Roscado / Before Threading / Pré-Taraudage

1,5	3 80	4 60	5 80	6 60	7 20	8 40	9,5 10 10 10	10,2 10 20 15	12 20 15 15	mm pcs
20	2,5 30	3,5 20	4,5 20		6,8 10					
1	2 40	3,3 20	4,2 10	5,5 10	6,5 20	7,5 10	8,5 10 10 10	10,2 30 15 15	12 20 15 15	mm pcs
30										

Nº Art. 70999: €

Cabinet 1010

BROCA MANGO CILÍNDRICO HSS

HSS Straight Shank Drill Bit
Foret queue cylindrique HSS



400 Pcs

\varnothing	1	1,5	2	2,5	3	3,5	4	4,5
Pcs	10	10	20	20	50	30	40	20
\varnothing	5	5,5	6	6,5			7	
Pcs	40	10	30	10			10	
\varnothing	7,5		8		8,5		9	
Pcs	10		20		10		10	
\varnothing	9,5		10		10,5		11	
Pcs	10		10		5		5	
\varnothing	11,5		12		12,5		13	
Pcs	5		5		5		5	

Nº Art. 55440:

€



Ref. **1001**

BROCA MANGO CILÍNDRICO HSS

HSS Straight Shank Drill Bit
Foret queue cylindrique HSS



CLASSIQUE



HSS
+
TIN

DIN
338 N



Uso General
General Purpose
Utilisation générale

Aceros
<850 N/mm²
Steel / Aciers

Fundición
Cast Iron
Fonte

Aluminio
Aluminium



D mm	L mm	I mm	---	Nº Art. HSS	€	Nº Art. TIN	€
1,00	34	12	2	18781		16527	*
1,50	40	18	2	18783		16528	*
2,00	49	24	2	18792		16529	*
2,50	57	30	2	18793		16530	*
3,00	61	33	2	18687		16531	*
3,25	65	36	2	30156		16532	*
3,30	65	36	2	34039			*
3,50	70	39	2	18688		16533	*
4,00	75	43	2	18589		16534	*
4,20	75	43	1	34040			
4,25	75	43	1	30157		16535	
4,50	80	47	1	18591		16536	
5,00	86	52	1	18592		16537	
5,50	93	57	1	18594		16538	
6,00	93	57	1	18595		16539	
6,50	101	63	1	18597		16540	
6,80	109	69	1	34041			
7,00	109	69	1	18645		16541	
7,50	109	69	1	18646		16542	
8,00	117	75	1	18655		16543	
8,50	117	75	1	18657		16544	
9,00	125	81	1	18666		16545	
9,50	125	81	1	66989			
10,00	133	87	1	18667		16546	
10,20	133	87	1	34042			
10,50	133	87	1	66991			
11,00	142	94	1	30158		16547	
11,50	142	94	1	66993			
12,00	151	101	1	18676		16549	
12,50	151	101	1	66995			
13,00	151	101	1	30159		16550	

* € = 2 uds.



Línea 1m 1001



BROCA MANGO CILÍNDRICO HSS

HSS Straight Shank Drill Bit
Foret queue cylindrique HSS

Ø	1	1,5	2	2,5	3	3,25	3,5	4	4,25	4,5	5	5,5	6	6,5	7	7,5	8	9	10
Packs	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	

Ref. 4995 - Nº Art. 70942: €

Display 14



BROCA MANGO CILÍNDRICO HSS

HSS Straight Shank Drill Bit
Foret queue cylindrique HSS

Ø	7,5	8	8,5	9	10	11	12	13
Packs	5	5	5	5	3	3	3	3
Ø	4	4,25	4,5	5	5	5,5	6	6
Packs	10	10	10	10	10	5	5	5
Ø	1	1,5	2	2,5	3	3	3,25	3,5
Packs	10	10	10	10	10	10	10	10

Ref. 4995 - Nº Art. 22162: €

Display 46



BROCA MANGO CILÍNDRICO HSS + PREVIOS ROSCADO

HSS Straight Shank Drill Bit + Before Threading
Foret queue cylindrique HSS + Pré-Taraudage

Ø	8	8,5	9	10	10,2	11	12	13
Packs	5	5	5	3	3	3	3	3
Ø	4,25	4,5	5	5	5,5	6	6,5	6,8
Packs	15	8	8	7	5	10	5	5
Ø	1	1,5	2	2,5	3	3,25	3,3	3,5
Packs	10	10	10	10	10	10	10	8

Ref. 4995 - Nº Art. 55618: €

Display 51

BROCAS METAL + PARED + MADERA

Metal + Masonry + Wood Drill Bits

Forets Métal + Maçonnerie + Bois



Ref.	Ø	3	4	5	6	7	8	9	10	12	14
	Pcs	10	10	10	10	10	10	5	5	5	5
Ref.	Ø	3	4	5	6	8	9	10	12	14	16
1640	Pcs	10	10	10	10	10	5	5	5	5	5
Ref.	Ø	1	2	3	3,5	4	4,5	5	6	8	10
1001	Pcs	10	10	10	10	10	10	10	5	5	3

Ref. 4995 - Nº Art. 68572: €

Sets 1010

BROCA MANGO CILÍNDRICO HSS

HSS Straight Shank Drill Bit
Foret queue cylindrique HSS



Set 1462

6 Pcs

Cont.	Ø	Nº Art.	€
2 - 3 - 4 - 5 - 6 - 8 mm	mm	30230	



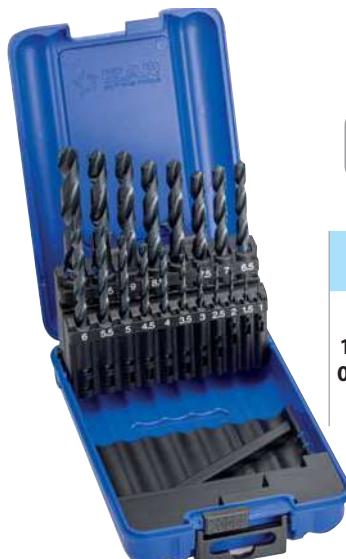
New!

Set 1459

29 Pcs

Cont.	Ø	Nº Art.	€
1 - 13 x 0,5 mm *	mm	15070	

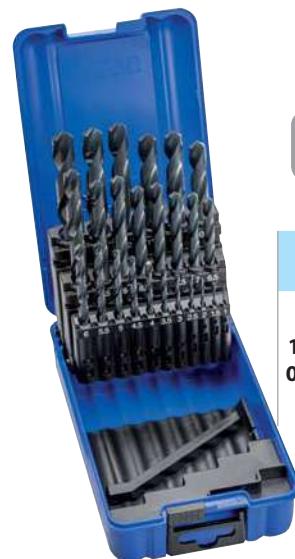
* + Previos Roscado / Before Threading
Pré-Taraudage (3,3 – 4,2 – 6,8 – 10,2 mm)



Set 1466

19 Pcs

Cont.	Ø	Nº Art.	€
1 - 10 x 0,5 mm	mm	25271	



Set 1456

25 Pcs

Cont.	Ø	Nº Art.	€
1 - 13 x 0,5 mm	mm	25235	



Box-Pallet 1010

5 Sets 1466

Nº Art.	Cont. Set	€
79644	1 - 10 x 0,5 mm	



Box-Pallet 1010

5 Sets 1456

Nº Art.	Cont. Set	€
80671	1 - 13 x 0,5 mm	

Línea 33 cm 14S1

SETS BROCAS METAL, PARED PRO, PARED, MADERA

Metal, Concrete, Masonry, Wood Sets

Jeux Métal, Béton, Maçonnerie, Bois



Ref	Metal Metal Métal 1462-1010	Pared Pro Concrete Béton 1486	Pared Masonry Maçonnerie 1485	Madera Wood Bois 1435
Diam	2-3-4-5-6-8 mm	4-5-6-8-10 mm	4-5-6-8-10 mm	4-5-6-8-10 mm
Pcs.	5	5	5	5

Ref. 4995 - Nº Art. 72193: €

Display 24

SETS BROCAS MANGO CILINDRICO HSS + HSSE

HSS + HSSE Straight Shank Drill Bit Sets

Jeux forets queue cylindrique HSS + HSSE



HSSE	Ref. 1462 - 1016 Metal Pro 5 Pcs. Pcs 5	Ref. 1466 - 1016 Metal Pro 19 Pcs. Pcs 1	Ref. 1456 - 1016 Metal Pro 25 Pcs. Pcs 1
HSS	Ref. 1462 - 1010 Metal 5 Pcs. Pcs 5	Ref. 1466 - 1010 Metal 19 Pcs. Pcs 2	Ref. 1456 - 1010 Metal 25 Pcs. Pcs 2

Ref. 4995 - Nº Art. 22320: €

Sets 1010

BROCA MANGO CILÍNDRICO HSS

HSS Straight Shank Drill Bit
Foret queue cylindrique HSS

Set 1407



37 Pcs

Set 1409



49 Pcs

Set 1405



50 Pcs

Set 1408



41 Pcs

Set 1406

Cont. Ø	Nº Art.	€
1-10 x 0,25 mm	26768	

91 Pcs



* Base roja / Red base / Base rouge

Set 1410



55 Pcs

Cont. Ø	Nº Art.	€
6 - 10 x 0,1 mm	26771	

Cont. Ø	Nº Art.	€
1 - 13 x 0,5 mm Ø1,0 – 4,0 mm: 3 pcs Ø4,2 – 8,0 mm: 2 pcs Ø8,50 – 13,0 mm: 1 pcs	19535	

Sets 1470

170 Pcs

Cont. Ø	Nº Art.	€
1-10 x 0,5 mm ø 1-8: 10 pcs/ø ø 8,5-10: 5 pcs/ø	19590	



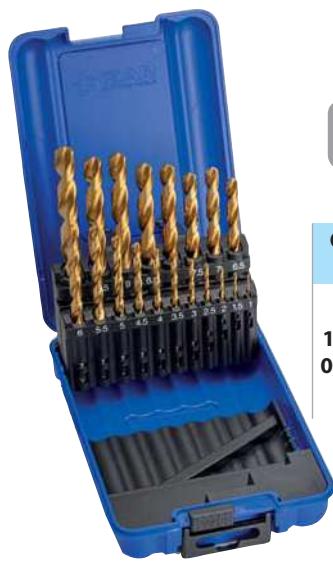
220 Pcs

Cont. Ø	Nº Art.	€
1-13 x 0,5 + 3,3 + 4,2 mm ø 1-8: 10 pcs/ø ø 8,5-13: 5 pcs/ø	56676	

Sets 1010

BROCA MANGO CILÍNDRICO HSS+TIN

HSS+TIN Straight Shank Drill Bit
Foret queue cylindrique HSS+TIN



Set 1466

19 Pcs

Cont.	Ø	Nº Art. TIN	€
1 - 10 x	0,5 mm	27132	



Set 1456

25 Pcs

Cont.	Ø	Nº Art. TIN	€
1 - 13 x	0,5 mm	27133	

Set 1407



37 Pcs

Cont. Ø	Nº Art. TIN	€
1 - 10 x 0,25 mm	27134	

Set 1409



49 Pcs

Cont. Ø	Nº Art. TIN	€
1 - 13 x 0,25 mm	27135	

Set 1405



50 Pcs

Cont. Ø	Nº Art. TIN	€
1 - 5,9 x 0,1 mm	13154	

Set 1408



41 Pcs

Cont. Ø	Nº Art. TIN	€
6 - 10 x 0,1 mm	13152	



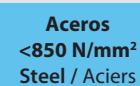
Ref. **1013**

BROCA MANGO CILÍNDRICO HSS SPEED POINT

Speed Point HSS Straight Shank Drill Bit
Foret queue cylindrique HSS Speed Point



SPEED POINT



x 3,5

TIALSIN

Resistencia al desgaste
Wear Resistance
Haute résistance à l'usure

D mm	L mm	I mm	Unit	Nº Art. HSS	€	Nº Art. TIALSIN	€	D mm	L mm	I mm	Unit	Nº Art. HSS	€	Nº Art. TIALSIN	€
1,00	34	12	10	17673		37620		4,25	75	43	10	10777			
1,10	36	14	10	10650				4,30	80	47	10	10779			
1,20	38	16	10	10656				4,40	80	47	10	10780			
1,30	38	16	10	10662				4,50	80	47	10	10782		37627	
1,40	40	18	10	10663				4,60	80	47	10	10783			
1,50	40	18	10	10666			37621	4,70	80	47	10	10786		69082	
1,60	43	20	10	10669				4,75	80	47	10	10787			
1,70	43	20	10	10670				4,80	86	52	10	10789		39240	
1,75	46	22	10	10671				4,90	86	52	10	10792			
1,80	46	22	10	10672				5,00	86	52	10	10793		17442	
1,90	46	22	10	10674				5,10	86	52	10	10795			
2,00	49	24	10	10675			37497	5,20	86	52	10	10797		39242	
2,10	49	24	10	10677				5,25	86	52	10	10798			
2,20	53	27	10	13596				5,30	86	52	10	10799		45421	
2,25	53	27	10	10679				5,40	93	57	10	10800			
2,30	53	27	10	13608				5,50	93	57	10	10801		37628	
2,40	57	30	10	10683				5,60	93	57	10	10802			
2,50	57	30	10	10684			37622	5,70	93	57	10	10804		39244	
2,60	57	30	10	10685				5,75	93	57	10	10807			
2,70	61	33	10	10686				5,80	93	57	10	10808			
2,75	61	33	10	10687				5,90	93	57	10	10810			
2,80	61	33	10	10690				6,00	93	57	10	10811		32677	
2,90	61	33	10	10692				6,10	101	63	10	10813			
3,00	61	33	10	10693			37623	6,20	101	63	10	10814			
3,10	65	36	10	10695				6,25	101	63	10	10815			
3,20	65	36	10	10696				6,30	101	63	10	10816			
3,25	65	36	10	10698				6,40	101	63	10	10819			
3,30	65	36	10	10699				6,50	101	63	10	10822		36558	
3,40	70	39	10	10701				6,60	101	63	10	11145			
3,50	70	39	10	10702			37625	6,70	101	63	10	11154		45424	
3,60	70	39	10	10704				6,75	109	69	10	11157		66924	
3,70	70	39	10	10705				6,80	109	69	10	11163		37629	
3,75	70	39	10	10708				6,90	109	69	10	11166		45725	
3,80	75	43	10	10710			39236	7,00	109	69	10	11172		36559	
3,90	75	43	10	10719				7,10	109	69	10	11175			
4,00	75	43	10	10770				7,20	109	69	10	13066			
4,10	75	43	10	10774				7,25	109	69	10	11184			
4,20	75	43	10	10776			36557	7,30	109	69	10	11190			

Ref. **1013**

BROCA MANGO CILÍNDRICO HSS SPEED POINT

Speed Point HSS Straight Shank Drill Bit
Foret queue cylindrique HSS Speed Point



D mm	L mm	I mm		Nº Art. HSS	€	Nº Art. TIALSIN	€	D mm	L mm	I mm		Nº Art. HSS	€	Nº Art. TIALSIN	€	
7,40	109	69	10	11202				10,75	142	94	5	53633				
7,50	109	69	10	11217		37630		10,80	142	94	5	17972				
7,60	117	75	10	14362				10,90	142	94	5	17975				
7,70	117	75	10	11226				11,00	142	94	5	13783		37635		
7,75	117	75	10	11229				11,10	142	94	5	17978				
7,80	117	75	10	11230				11,20	142	94	5	66583				
7,90	117	75	10	11251				11,25	142	94	5	53636				
8,00	117	75	10	11268		36560		11,30	142	94	5	17980				
8,10	117	75	5	11269				11,40	142	94	5	17981				
8,20	117	75	5	11287		64063		11,50	142	94	5	17609		37636		
8,25	117	75	5	11290				11,60	142	94	5	17982				
8,30	117	75	5	11297				11,70	142	94	5	19657				
8,40	117	75	5	11302				11,80	142	94	5	17984				
8,50	117	75	5	11303		37498		11,90	151	101	5	17987				
8,60	125	81	5	11304				12,00	151	101	5	17611		37637		
8,70	125	81	5	11305				12,10	151	101	5	63357				
8,75	125	81	5	11306				12,20	151	101	5	63358				
8,80	125	81	5	11307				12,25	151	101	5	53639				
8,90	125	81	5	11308				12,30	151	101	5	22343				
9,00	125	81	5	11310		37631		12,40	151	101	5	63360				
9,10	125	81	5	14378		39252		12,50	151	101	5	17615		37638		
9,20	125	81	5	14304		64064		12,60	151	101	5	63361				
9,25	125	81	5	11313				12,70	151	101	5	17081				
9,30	125	81	5	14305				12,75	151	101	5	53645				
9,40	125	81	5	13007				12,80	151	101	5	63363				
9,50	125	81	5	11317		37632		12,90	151	101	5	63364				
9,60	133	87	5	11318				13,00	151	101	5	16556		36556		
9,70	133	87	5	13440				13,50	160	108	1	22833		83459		
9,75	133	87	5	11321				14,00	160	108	1	19224		64065		
9,80	133	87	5	11322				14,50	169	114	1	24941				
9,90	133	87	5	11323				15,00	169	114	1	19227		12770		
10,00	133	87	5	11324		36147		15,50	178	120	1	51929				
10,10	133	87	5	22341				16,00	178	120	1	22306		12771		
10,20	133	87	5	17648		37633		16,50	184	125	1	51640				
10,25	133	87	5	53630				17,00	184	125	1	48580		12784		
10,30	133	87	5	17506		37634		17,50	191	130	1	48582				
10,40	133	87	5	17966				18,00	191	130	1	48583		12792		
10,50	133	87	5	17613		38088		18,50	198	135	1	48585				
10,60	133	87	5	17969				19,00	198	135	1	48586		12793		
10,70	142	94	5	22342				19,50	205	140	1	48588			12794	
(New!)																
(New!)																



Expo 1013

BROCA MANGO CILÍNDRICO HSS SPEED POINT

Speed Point HSS Straight Shank Drill Bit

Foret queue cylindrique HSS Speed Point

Cuartos / Quarters / Quarts

Ø	1	1,5	2	2,5	3	3,25
Pcs	30	20	40	30	50	30
Ø	3,5	4	4,25	4,5	5	
Pcs	30	50	30	30	50	
Ø	5,5	6	6,5	7		
Pcs	40	50	20	20		
Ø	7,5	8	8,5	9		
Pcs	20	40	20	20		
Ø	9,5	10	11	12	13	
Pcs	5	20	5	10	5	

Nº Art. 57524: €

Previos Roscado / Before Threading / Pré-Taraudage

Ø	1	1,5	2	2,5	3	3,3
Pcs	30	20	40	30	50	30
Ø	3,5	4	4,2	4,5	5	
Pcs	30	50	30	30	50	
Ø	5,5	6	6,5	6,8		
Pcs	40	50	20	10		
Ø	7	7,5	8	8,5		
Pcs	20	20	40	20		
Ø	9	9,5	10	10,2	11	12
Pcs	20	5	20	5	5	10
Ø						13
Pcs						5

Nº Art. 57976: €

Línea 1m 1013

BROCA MANGO CILÍNDRICO HSS SPEED POINT

Speed Point HSS Straight Shank Drill Bit

Foret queue cylindrique HSS Speed Point

Cuartos / Quarters / Quarts

1,5 20	3 50	4 50	5 50	6 50	7 20	8 40	9 20	10 20	12 10	13 5	mm pcs
	2,5 30	3,5 30	4,5 30								
1 30	2 40	3,25 30	4,25 30	5,5 40	6,5 20	7,5 20	8,5 20	9,5 5	11 5	12 10	13 5

Nº Art. 71057: €

Previos Roscado / Before Threading / Pré-Taraudage

1,5 30	3 50	4 50	5 50	6 50	7 20	8 40	9,5 5	10,2 5	12 10	13 5	mm pcs
	2,5 30	3,5 30	4,5 30								
1 20	2 40	3,3 30	4,2 30	5,5 40	6,5 20	7,5 20	8,5 20	9,5 5	10 20	11 5	13 5

Nº Art. 71390: €



Cabinet 1013

BROCA MANGO CILÍNDRICO HSS SPEED POINT

Speed Point HSS Straight Shank Drill Bit
Foret queue cylindrique HSS Speed Point



350 Pcs

\varnothing	1	1,5	2	2,5	3	3,5	4	4,5
Pcs	10	10	20	20	40	20	40	20
\varnothing	5	5,5	6	6,5	7			
Pcs	30	10	30	10	10			10
\varnothing	7,5	8	8,5	9				
Pcs	10	20	5	5				
\varnothing	9,5	10	10,5	11				
Pcs	5	5	5	5				
\varnothing	11,5	12	12,5	13				
Pcs	5	5	5	5				

Nº Art. 55443: €



Ref. **1002**

BROCA MANGO CILÍNDRICO HSS SPEED POINT

Speed Point HSS Straight Shank Drill Bit
Foret queue cylindrique HSS Speed Point



SPEED POINT

HSS

DIN
338 N



**Chapa
Sheets
Tôle**

**Aceros
<850 N/mm²
Steel / Aciers**

**Fundición
Cast Iron
Fonte**

**Aluminio
Aluminium**



D mm	L mm	I mm		Nº Art.	€
1,00	34	12	2	24778	*
1,50	40	18	2	16516	*
2,00	49	24	2	24779	*
2,50	57	30	2	24780	*
3,00	61	33	2	24781	*
3,25	65	36	2	24782	*
3,30	65	36	2	39913	*
3,50	70	39	2	24783	*
3,80	75	43	2	79610	*
4,00	75	43	2	24784	*
4,20	75	43	1	39914	
4,25	75	43	1	24785	
4,50	80	47	1	24786	
4,80	86	52	1	79611	
5,00	86	52	1	24787	
5,20	86	52	1	73529	
5,50	93	57	1	24788	
5,80	93	57	1	79612	
6,00	93	57	1	24789	
6,50	101	63	1	24790	
6,80	109	69	1	39915	
7,00	109	69	1	24791	
7,50	109	69	1	24792	
8,00	117	75	1	24793	
8,50	117	75	1	24794	
9,00	125	81	1	24795	
9,50	125	81	1	74946	
10,00	133	87	1	24796	
10,20	133	87	1	39916	
10,50	133	87	1	74949	
11,00	142	94	1	24797	
11,50	142	94	1	74950	
12,00	151	101	1	24798	
12,50	151	101	1	79613	
13,00	151	101	1	24799	
14,00	160	108	1	79614	

* € = 2 uds.



**Doble Blister
ref. M013
pag. 372**



Línea 1m
1002



BROCA MANGO CILÍNDRICO HSS SPEED POINT

Speed Point HSS Straight Shank Drill Bit
Foret queue cylindrique HSS Speed Point



Ø	1	1,5	2	2,5	3	3,25	3,5	4	4,25	4,5	5	5,5	6	6,5	7	7,5	8	9	10
Packs	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	

Ref. 4995 - Nº Art. 70947: €

Display
17



BROCA MANGO CILÍNDRICO HSS SPEED POINT

Speed Point HSS Straight Shank Drill Bit
Foret queue cylindrique HSS Speed Point

Ø	7,5	8	8,5	9	10	11	12	13
Packs	8	8	5	5	3	3	3	3
Ø	4	4,25	4,5	5	5	5,5	6	6
Packs	5	10	10	5	5	10	5	10
Ø	1	1,5	2	2,5	3	3	3,25	3,5
Packs	10	10	10	10	5	5	10	5

Ref. 4995 - Nº Art. 22492: €

Display 47

BROCA M. CILÍNDRICO HSS SPEED POINT + PREVIOS ROSCADO

Speed Point HSS Straight Shank Drill Bit + Before Threading

Foret queue cylindrique HSS Speed Point + Pré-Taraudage



Ø	8	8,5	9	10	10,2	11	12	13
Pcs	5	5	5	3	3	3	3	3
Ø	4,25	4,5	5	5	5,5	6	6,5	7
Pcs	10	5	5	5	5	10	5	5
Ø	1	1,5	2	2,5	3	3,25	3,3	4
Pcs	10	10	10	5	10	10	10	5

Ref. 4995 - N° Art. 55620: €

Display 59

BROCAS SPEED POINT + PARED + MADERA

Speed Point + Masonry + Wood Drill Bits

Forets Speed Point + Maçonnerie + Bois



Ref. 1880	Ø	3	4	5	6	7	8	9	10	12	14
	Pcs	10	10	10	10	10	10	5	5	5	5
Ref. 1640	Ø	3	4	5	6	8	9	10	12	14	16
	Pcs	10	10	10	10	10	5	5	5	5	5
Ref. 1002	Ø	2	3	3,5	4	4,5	5	6	7	8	10
	Pcs	10	10	10	10	10	10	5	5	5	3

Ref. 4995 - N° Art. 70099: €

Sets 1013

BROCA MANGO CILÍNDRICO HSS SPEED POINT

Speed Point HSS Straight Shank Drill Bit
Foret queue cylindrique HSS Speed Point



Set 1462

6 Pcs

Cont.	Nº Art.	€
Ø		
2 - 3 - 4		
- 5 - 6 - 8	25365	
mm		



New!

Set 1459

29 Pcs

Cont.	Nº Art.	€
Ø		
1 - 13 x 0,5 mm *	15088	

* + Previos Roscado / Before Threading
Pré-Taraudage (3,3 - 4,2 - 6,8 - 10,2 mm)



Set 1466

19 Pcs

Cont.	Nº Art.	€
Ø		
1 - 10 x 0,5 mm	18808	



Set 1456

25 Pcs

Cont.	Nº Art.	€
Ø		
1 - 13 x 0,5 mm	18807	



Box-Pallet
1013

5 Sets 1466

Nº Art.	Cont. Set	€
80659	1 - 10 x 0,5 mm	



Box-Pallet
1013

5 Sets 1456

Nº Art.	Cont. Set	€
80675	1 - 13 x 0,5 mm	

Sets 1013

BROCA MANGO CILÍNDRICO HSS SPEED POINT

Speed Point HSS Straight Shank Drill Bit
Foret queue cylindrique HSS Speed Point

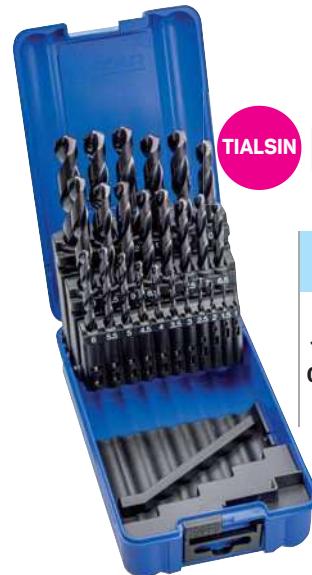


TIALSIN

Set 1466

19 Pcs

Cont.	Nº Art.	€
Ø	TIALSIN	
1 - 10 x 0,5 mm	38833	



TIALSIN

Set 1456

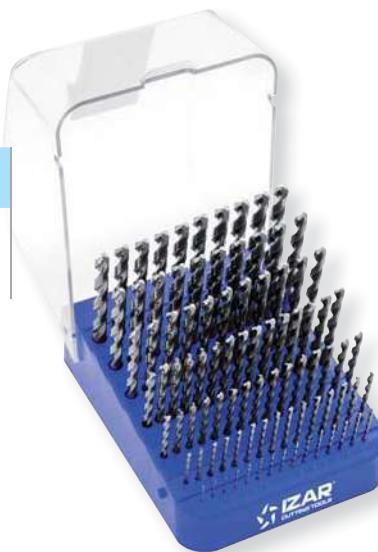
25 Pcs

Cont.	Nº Art.	€
Ø	TIALSIN	
1 - 13 x 0,5 mm	38832	

Set 1406

91 Pcs

Cont.	Nº Art.	€
Ø		
1-10 x 0,10 mm	60624	



* Base roja / Red base / Base rouge

Set 1410

NOVABOX

New!



55 Pcs

Cont.	Nº Art.	€
Ø		
1 - 13 x 0,5 mm		
Ø1,0 – 4,0 mm: 3 pcs		
Ø4,2 – 8,0 mm: 2 pcs		
Ø8,50 – 13,0 mm: 1 pcs	19536	

Sets 1470

170 Pcs



Cont. Ø

Nº Art.

€

1-10 x 0,5 mm
Ø 1-8: 10 pcs/Ø
Ø 8,5-10: 5 pcs/Ø

1-10 x 0,5 mm Ø 1-8: 10 pcs/Ø Ø 8,5-10: 5 pcs/Ø	56677
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220 Pcs



Cont. Ø

Nº Art.

€

1-13 x 0,5 + 3,3 + 4,2 mm
Ø 1-8: 10 pcs/Ø
Ø 8,5-13: 5 pcs/Ø

1-13 x 0,5 + 3,3 + 4,2 mm Ø 1-8: 10 pcs/Ø Ø 8,5-13: 5 pcs/Ø	56679
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Ref. **1007**

BROCA MANGO REBAJADO HSS

HSS Reduced Shank Drill Bit
Foret queue reduite HSS



Aceros
<850 N/mm²
Steel / Aciers

Fundición
Cast Iron
Fonte

Aluminio
Aluminium



D mm	d mm	L mm	I mm	Unit Box	Nº Art.	€	D mm	d mm	L mm	I mm	Unit Box	Nº Art.	€	D mm	d mm	L mm	I mm	Unit Box	Nº Art.	€
10,50	10,00	133	87	1	15976		15,50	12,70	178	120	1	15988		20,50	12,70	205	145	1	66932	
11,00	10,00	142	94	1	15977		16,00	12,70	178	120	1	15989		21,00	12,70	205	145	1	17071	
11,50	10,00	142	94	1	15978		16,50	12,70	184	125	1	15990		21,50	12,70	210	150	1	66933	
12,00	10,00	151	101	1	15979		17,00	12,70	184	125	1	15991		22,00	12,70	210	150	1	17072	
12,50	10,00	151	101	1	15980		17,50	12,70	191	130	1	15992		22,50	12,70	210	150	1	66934	
13,00	10,00	151	101	1	15981		18,00	12,70	191	130	1	15993		23,00	12,70	210	150	1	36364	
13,50	12,70	160	108	1	15982		18,50	12,70	198	135	1	15994		23,50	12,70	220	160	1	66935	
14,00	12,70	160	108	1	15984		19,00	12,70	198	135	1	15995		24,00	12,70	220	160	1	36365	
14,50	12,70	169	114	1	15985		19,50	12,70	205	140	1	15996		24,50	12,70	220	160	1	66936	
15,00	12,70	169	114	1	15987		20,00	12,70	205	140	1	15997		25,00	12,70	220	160	1	36366	

Línea 1m
1007

BROCA MANGO REBAJADO HSS

HSS Reduced Shank Drill Bit
Foret queue reduite HSS



Ø	12	12,5	13	13,5	14	15	15,5	16	16,5	17	17,5	18	18,5	19	19,5	20
Pcs	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

Ref. 4995 - Nº Art. 70951: €

Display
18

BROCA MANGO REBAJADO HSS

HSS Reduced Shank Drill Bit
Foret queue reduite HSS



Ø	17	17,5	18	18	18,5	19	19,5	20
Pcs	2	2	1	1	1	1	1	1
Ø	14	14	14,5	15	15,5	16	16	16,5
Pcs	2	1	2	2	2	1	1	2
Ø	10,5	11	11,5	12	12	12,5	13	13,5
Pcs	2	2	2	2	1	2	2	2

Ref. 4995 - Nº Art. 22352: €



Ref. 1012

BROCA MANGO CILÍNDRICO HSS

HSS Straight Shank Drill Bit
Foret queue cylindrique HSS

HSS

DIN
338 HCobre
Copper
CuivreBronce
BronzeLatón
Brass
Laiton

D mm	L mm	I mm		Nº Art.	€
1,00	34	12	10	10586	
1,25	38	16	10	27590	
1,50	40	18	10	10589	
2,00	49	24	10	10592	
2,25	53	27	10	18908	
2,50	57	30	10	10595	
2,75	61	33	10	18917	
3,00	61	33	10	10598	
3,25	65	36	10	18932	
3,50	70	39	10	10601	
*3,75	70	39	10	18941	
4,00	75	43	10	10604	
4,25	75	43	10	18953	
4,50	80	47	10	10607	
4,75	80	47	10	18968	
5,00	86	52	10	10610	
5,20	86	52	10	18974	
5,25	86	52	10	18977	
5,50	93	57	10	10613	
*5,75	93	57	10	18980	
6,00	93	57	10	10616	
6,25	101	63	10	18986	
6,50	101	63	10	10619	
6,75	109	69	10	18998	
7,00	109	69	10	10622	
7,25	109	69	10	19013	

D mm	L mm	I mm		Nº Art.	€
7,50	109	69	10	10625	
7,75	117	75	10	19022	
8,00	117	75	10	10628	
8,25	117	75	10	19031	
8,50	117	75	10	10631	
9,00	125	81	10	10634	
9,50	125	81	10	10637	
9,75	133	87	10	19040	
10,00	133	87	10	10640	
10,50	133	87	5	10643	
11,00	142	94	5	10646	
11,50	142	94	5	10649	
12,00	151	101	5	10652	
12,50	151	101	5	10655	
13,00	151	101	5	10658	
14,00	160	108	1	18863	
14,50	169	114	1	46846	
15,00	169	114	1	54158	
16,00	178	120	1	46847	
16,50	184	125	1	46848	
17,00	184	125	1	46849	
18,00	191	130	1	54159	
18,50	198	135	1	46851	
19,00	198	135	1	46852	
20,00	205	140	1	46850	

* Diam. hasta fin de existencias / while stock lasts / jusqu'à la fin de stock



Ref. **1025**

BROCA MANGO CILÍNDRICO CORTE IZQUIERDA

Left Hand Straight Shank Drill Bit

Foret queue cylindrique coupe à gauche



HSS

DIN
338 N



Aceros
<850 N/mm²
Steel / Aciers

Fundición
Cast Iron
Fonte

Aluminio
Aluminium



D mm	L mm	I mm	Box	Nº Art.	€
1,00	34	12	10	10554	
1,50	40	18	10	10560	
2,00	49	24	10	10562	
2,50	57	30	10	10564	
3,00	61	33	10	10569	
3,50	70	39	10	11121	
4,00	75	43	10	11566	
4,50	80	47	10	11811	
5,00	86	52	10	11817	
5,50	93	57	10	11820	
6,00	93	57	10	12001	
6,50	101	63	10	12330	

D mm	L mm	I mm	Box	Nº Art.	€
7,00	109	69	10	12336	
7,50	109	69	10	12339	
8,00	117	75	10	12345	
8,50	117	75	10	12348	
9,00	125	81	10	12399	
9,50	125	81	10	12408	
10,00	133	87	10	12417	
11,00	142	94	5	70015	
12,00	151	101	5	70016	
13,00	151	101	5	70017	

Sets
1025

BROCA MANGO CILÍNDRICO CORTE IZQUIERDA

Left Hand Straight Shank Drill Bit

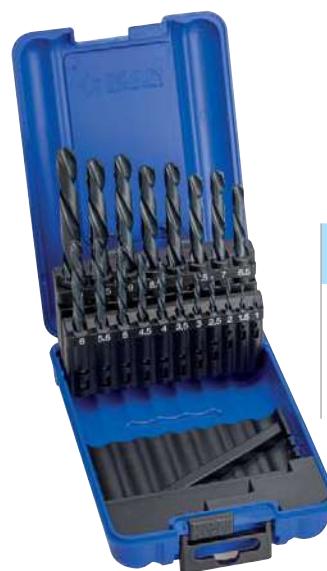
Foret queue cylindrique coupe à gauche



Set **1462**

6 Pcs

Cont. Ø	Nº Art.	€
2 - 3 - 4		
- 5 - 6 - 8 mm	67380	



Set **1466**

19 Pcs

Cont. Ø	Nº Art.	€
1 - 10 x 0,5 mm	66659	



Ref. **1660**

BROCA MANGO CILÍNDRICO HSS DOBLE

Double HSS Straight Shank Drill Bit
Foret queue cylindrique HSS double



HSS

IZAR
Std.



**Chapa
Sheets
Tôle**

Aceros
<850 N/mm²
Steel / Aciers



D mm	L mm	I mm	Box	Nº Art.	€
2,00	38	9	10	16028	
2,20	40	9	10	27607	
(New!) 2,25	43	10	10	16031	
(New!) 2,30	43	10	10	25604	
(New!) 2,40	43	10	10	25607	
(New!) 2,50	43	10	10	16034	
(New!) 2,75	46	13	10	16037	
2,80	46	13	10	16040	
2,90	46	13	10	16043	
3,00	46	13	10	16046	
3,10	52	14	10	16049	
3,20	52	14	10	16052	
3,25	52	14	10	16055	
3,30	52	14	10	16058	
3,40	52	14	10	16061	
3,50	52	14	10	16064	
3,70	55	15	10	16067	
3,75	55	15	10	16070	
3,80	55	15	10	16073	
4,00	55	15	10	16076	
4,10	58	16	10	16079	
4,20	58	16	10	16082	

D mm	L mm	I mm	Box	Nº Art.	€
4,25	58	16	10	16085	
4,50	58	16	10	16088	
4,75	62	18	10	16094	
4,80	62	18	10	16097	
4,90	62	18	10	16100	
5,00	62	18	10	16103	
5,10	66	19	10	16106	
5,20	66	19	10	16109	
5,25	66	19	10	16112	
5,50	66	19	10	16115	
5,70	66	19	10	25634	
5,75	66	19	10	16121	
6,00	66	19	10	16127	
6,10	70	21	10	25640	
(New!) 6,20	70	21	10	25643	
6,50	70	21	10	16133	
7,00	74	24	10	16136	
7,40	74	24	10	25664	
7,50	74	24	10	16139	
8,00	79	25	10	16142	
9,00	84	25	10	16148	
10,00	89	27	10	16154	



Ref. **1050**

BROCA MANGO CILÍNDRICO HSS EXTRA CORTA

HSS Straight Shank Stub Drill Bit

Foret queue cylindrique HSS extra-courte



HSS

DIN
1897 N



Serie Extra Corta
Stub Series
Série extra-courte

Aceros
<850 N/mm²
Steel / Aciers

Fundición
Cast Iron
Fonte

Aluminio
Aluminium



D mm	L mm	I mm	Box	Nº Art.	€	D mm	L mm	I mm	Box	Nº Art.	€	D mm	L mm	I mm	Box	Nº Art.	€
1,00	26	6	10	20606		5,10	62	26	10	12425		11,25	95	47	1	12515	
1,25	30	8	10	20615		5,20	62	26	10	12428		11,50	95	47	1	12518	
1,50	32	9	10	12302		5,25	62	26	10	12431		12,00	102	51	1	12527	
1,60	34	10	10	12305		5,30	62	26	10	12434		12,25	102	51	1	12530	
1,75	36	11	10	12311		5,40	66	28	10	12437		12,50	102	51	1	12533	
1,80	36	11	10	12314		5,50	66	28	10	12440		12,70	102	51	1	20813	
1,90	36	11	10	12317		5,60	66	28	10	12443		13,00	102	51	1	12539	
2,00	38	12	10	12320		5,70	66	28	10	12446		13,50	107	54	1	12545	
2,10	40	13	10	12323		5,75	66	28	10	12449		14,00	107	54	1	12551	
2,20	40	13	10	12326		5,80	66	28	10	12452		14,50	111	56	1	12554	
2,25	40	13	10	12329		5,90	66	28	10	12455		15,00	111	56	1	12557	
2,30	40	13	10	12332		6,00	66	28	10	12458		15,50	115	58	1	12560	
2,40	43	14	10	12335		6,10	70	31	10	20651		16,00	115	58	1	12563	
2,50	43	14	10	12338		6,20	70	31	10	20654		16,50	119	60	1	12566	
2,60	43	14	10	12341		6,25	70	31	10	12461		17,00	119	60	1	12569	
2,70	46	16	10	12344		6,30	70	31	10	20657		17,50	123	62	1	12572	
2,75	46	16	10	12347		6,40	70	31	10	20663		18,00	123	62	1	12575	
2,80	46	16	10	12350		6,50	70	31	10	12464		18,50	127	64	1	12578	
2,90	46	16	10	12353		6,60	70	31	10	20666		19,00	127	64	1	12581	
3,00	46	16	10	12356		6,70	70	31	10	20669		19,50	131	66	1	12584	
3,10	49	18	10	12359		6,75	74	34	10	12467		20,00	131	66	1	12587	
3,20	49	18	10	12362		6,80	74	34	10	20672							
3,25	49	18	10	12365		7,00	74	34	10	12470							
3,30	49	18	10	12368		7,20	74	34	10	20681							
3,40	52	20	10	12371		7,25	74	34	10	27317							
3,50	52	20	10	12374		7,40	74	34	10	30591							
3,60	52	20	10	12377		7,50	74	34	10	12473							
3,70	52	20	10	12380		7,75	79	37	10	12476							
3,75	52	20	10	12383		7,80	79	37	10	20696							
3,80	55	22	10	12386		8,00	79	37	10	12479							
3,90	55	22	10	12389		8,25	79	37	10	12482							
4,00	55	22	10	12392		8,50	79	37	10	12485							
4,10	55	22	10	12395		8,75	84	40	10	12488							
4,20	55	22	10	12398		9,00	84	40	10	12491							
4,25	55	22	10	12401		9,10	84	40	10	30592							
4,30	58	24	10	12404		9,25	84	40	10	12494							
4,40	58	24	10	12407		9,50	84	40	10	12497							
4,50	58	24	10	12410		9,75	89	43	10	27334							
4,60	58	24	10	20636		10,00	89	43	10	12500							
4,70	58	24	10	20639		10,20	89	43	1	20756							
4,75	58	24	10	12413		10,25	89	43	1	12503							
4,80	62	26	10	12416		10,50	89	43	1	12506							
4,90	62	26	10	12419		11,00	95	47	1	12512							
5,00	62	26	10	12422		11,10	95	47	1	30593							

Set **1476**



19 Pcs

Cont. Ø	Nº Art.	€
1 - 10 x 0,5 mm	11935	



Ref. **1030**

BROCA MANGO CILÍNDRICO HSS LARGA

HSS Straight Shank Long Drill Bit

Foret queue cylindrique HSS longue



HSS

DIN
340 N



Serie Larga
Long Series
Série longue

Aceros
<850 N/mm²
Steel / Aciers

Fundición
Cast Iron
Fonte

Aluminio
Aluminium



D mm	L mm	I mm	€	D mm	L mm	I mm	€
Nº Art.				Nº Art.			
0,50	32	12	10	26656	4,20	119	78
0,60	35	15	10	26658	4,25	119	78
0,70	42	21	10	19467	4,30	126	82
0,80	46	25	10	24592	4,40	126	82
0,90	51	29	10	26659	4,50	126	82
1,00	56	33	10	11573	4,60	126	82
1,10	60	37	10	11576	4,70	126	82
1,20	65	41	10	11579	4,75	126	82
1,25	65	41	10	11582	4,80	132	87
1,30	65	41	10	11585	4,90	132	87
1,40	70	45	10	11588	5,00	132	87
(New!) 1,45	70	45	10	31704	5,10	132	87
1,50	70	45	10	11591	5,20	132	87
1,60	76	50	10	11594	5,25	132	87
1,70	76	50	10	11597	5,30	132	87
1,75	80	53	10	11600	5,40	139	91
1,80	80	53	10	11603	5,50	139	91
1,90	80	53	10	11606	5,60	139	91
2,00	85	56	10	11609	5,70	139	91
2,10	85	56	10	11612	5,75	139	91
2,20	90	59	10	11615	5,80	139	91
2,25	90	59	10	11618	5,90	139	91
2,30	90	59	10	11621	6,00	139	91
2,40	95	62	10	11624	6,10	148	97
2,50	95	62	10	11627	6,20	148	97
2,60	95	62	10	11630	6,25	148	97
2,70	100	66	10	11633	6,30	148	97
2,75	100	66	10	11636	6,40	148	97
2,80	100	66	10	11639	6,50	148	97
2,90	100	66	10	11642	6,60	148	97
3,00	100	66	10	11645	6,70	148	97
3,10	106	69	10	11648	6,75	156	102
3,20	106	69	10	11651	6,80	156	102
3,25	106	69	10	11654	6,90	156	102
3,30	106	69	10	11657	7,00	156	102
3,40	112	73	10	11660	7,10	156	102
3,50	112	73	10	11663	7,20	156	102
3,60	112	73	10	11666	7,25	156	102
3,70	112	73	10	11669	7,30	156	102
3,75	112	73	10	11672	7,40	156	102
3,80	119	78	10	11675	7,50	156	102
3,90	119	78	10	11678	7,60	165	109
4,00	119	78	10	11681	7,70	165	109
4,10	119	78	10	11684	7,75	165	109

Ref. **1030**

BROCA MANGO CILÍNDRICO HSS LARGA

HSS Straight Shank Long Drill Bit
Foret queue cylindrique HSS longue



D mm	L mm	I mm		Nº Art.	€
7,80	165	109	10	11816	
7,90	165	109	10	11819	
8,00	165	109	10	11822	
8,10	165	109	5	11825	
8,20	165	109	5	11828	
8,25	165	109	5	11831	
8,30	165	109	5	11834	
8,40	165	109	5	11837	
8,50	165	109	5	11840	
8,60	175	115	5	11843	
8,70	175	115	5	11846	
8,75	175	115	5	11849	
8,80	175	115	5	11852	
8,90	175	115	5	11855	
9,00	175	115	5	11858	
9,10	175	115	5	11861	
9,20	175	115	5	11864	
9,25	175	115	5	11867	
9,30	175	115	5	11870	
9,40	175	115	5	11873	
9,50	175	115	5	11876	
9,60	184	121	5	11879	
9,70	184	121	5	11882	
9,75	184	121	5	11885	
9,80	184	121	5	11888	
9,90	184	121	5	11891	
10,00	184	121	5	11894	
10,20	184	121	1	11900	
10,25	184	121	1	11903	
10,50	184	121	1	11912	
10,75	195	128	1	11921	
10,80	195	128	1	11924	(New!)
11,00	195	128	1	11930	
11,10	195	128	1	30588	(New!)
11,25	195	128	1	11939	
11,50	195	128	1	11948	
11,75	195	128	1	11957	

D mm	L mm	I mm		Nº Art.	€
11,80	195	128	1	11960	
11,90	205	134	1	11963	
12,00	205	134	1	11966	
12,20	205	134	1	11972	
12,25	205	134	1	11975	
12,30	205	134	1	11978	
12,50	205	134	1	11984	
12,75	205	134	1	11993	
13,00	205	134	1	12002	
13,25	214	140	1	12005	
13,50	214	140	1	12008	
13,75	214	140	1	12011	
14,00	214	140	1	12014	
14,25	220	144	1	12017	
14,50	220	144	1	12020	
14,75	220	144	1	12023	
15,00	220	144	1	12026	
15,25	227	149	1	12029	
15,50	227	149	1	12032	
15,75	227	149	1	12035	
16,00	227	149	1	12038	
16,25	235	154	1	12041	
16,50	235	154	1	12044	
16,75	235	154	1	12047	
17,00	235	154	1	12050	
17,25	241	158	1	12053	
17,50	241	158	1	12056	
17,75	241	158	1	12059	
18,00	241	158	1	12062	
18,25	247	162	1	12065	
18,50	247	162	1	12068	
18,75	247	162	1	12071	
19,00	247	162	1	12074	
19,25	254	166	1	12077	
19,50	254	166	1	12080	
19,75	254	166	1	12083	
20,00	254	166	1	12086	





Ref. **1003**

BROCA MANGO CILÍNDRICO HSS LARGA

HSS Straight Shank Long Drill Bit
Foret queue cylindrique HSS longue



HSS

DIN
340 N

Serie Larga
Long Series
Série longue

Aceros
<850 N/mm²
Steel / Aciers

Fundición
Cast Iron
Fonte

Aluminio
Aluminium



D mm	L mm	I mm	📦	Nº Art.	€
2,00	85	56	1	10572	
2,50	95	62	1	10573	
3,00	100	66	1	10581	
3,25	106	69	1	10582	
3,50	112	73	1	10584	
4,00	119	78	1	10585	
4,25	119	78	1	10591	
4,50	126	82	1	10593	
5,00	132	87	1	10596	
5,50	139	91	1	10599	
6,00	139	91	1	10602	
6,50	148	97	1	10605	
7,00	156	102	1	10608	
7,50	156	102	1	10611	
8,00	165	109	1	10614	
8,50	165	109	1	10617	
9,00	175	115	1	10620	
10,00	184	121	1	10623	
11,00	195	128	1	10629	
12,00	205	134	1	10632	
13,00	205	134	1	10635	

**Línea 1m
1003**



BROCA MANGO CILÍNDRICO HSS LARGA

HSS Straight Shank Long Drill Bit
Foret queue cylindrique HSS longue

Ø	2	2,5	3	3,25	3,5	4	4,25	4,5	5	5,5	6	6,5	7	7,5	8	8,5	9	10	12
Pcs	5	5	5	5	5	5	5	5	5	5	5	5	5	3	5	3	3	5	2

Ref. 4995 - Nº Art. 71682: €

**Display
15**



BROCA MANGO CILÍNDRICO HSS LARGA

HSS Straight Shank Long Drill Bit
Foret queue cylindrique HSS longue

Ø	7,5	8	8,5	9	10	11	12	13
Pcs	5	5	3	3	3	2	2	2
Ø	4,25	4,25	4,5	5	5	5,5	6	6
Pcs	3	2	5	3	2	3	2	5
Ø	2	2,5	3	3	3,25	3,25	3,5	3,5
Pcs	5	5	3	2	3	2	3	2

Ref. 4995 - Nº Art. 22328: €



Ref. **1040**

BROCA MANGO CILÍNDRICO HSS EXTRA LARGA

HSS Straight Shank Extra Long Drill Bit

Foret queue cylindrique HSS extra-longue

IZAR CUTTING TOOLS



HSS

DIN
1869 N



Serie Extra Larga
Extra Long Series
Série extra-longue

Aceros
<850 N/mm²
Steel / Aciers

Fundición
Cast Iron
Fonte

Aluminio
Aluminium



D mm	L mm	I mm		Nº Art.	€
2,00	125	85	1	12158	
2,50	140	95	1	12161	
3,00	150	100	1	12164	
3,00	190	136	1	12167	
3,50	165	115	1	12170	
3,50	210	145	1	12173	
3,50	265	180	1	12176	
4,00	175	120	1	12179	
4,00	220	150	1	12182	
4,00	280	190	1	12185	
4,50	185	125	1	12188	
4,50	235	160	1	12191	
4,50	295	200	1	12194	
5,00	195	135	1	12197	
5,00	245	170	1	12200	
5,00	315	210	1	12203	
5,50	205	140	1	12206	
5,50	260	180	1	12209	
5,50	330	225	1	12212	
6,00	205	140	1	12215	
6,00	260	180	1	12218	
6,00	330	225	1	12221	
6,50	215	150	1	12224	
6,50	275	190	1	12227	

D mm	L mm	I mm		Nº Art.	€
6,50	350	235	1	12230	
7,00	225	155	1	12233	
7,00	290	200	1	12236	
7,00	370	250	1	12239	
7,50	225	155	1	12242	
7,50	290	200	1	12245	
7,50	370	250	1	12248	
8,00	240	165	1	12251	
8,00	305	210	1	12254	
8,00	390	265	1	12257	
8,50	240	165	1	12260	
8,50	305	210	1	12263	
8,50	390	265	1	12266	
9,00	250	175	1	12269	
9,00	320	220	1	12272	
9,00	410	280	1	12275	
9,50	250	175	1	12278	
9,50	320	220	1	12281	
9,50	410	280	1	12284	
10,00	265	185	1	12287	
10,00	340	235	1	12290	
10,00	430	295	1	12293	
11,00	280	195	1	28866	
12,00	295	205	1	28867	



Ref. **1090**

BROCA MANGO CILÍNDRICO HSS LAMINADA

HSS Straight Shank Rolled Drill Bit
Foret queue cylindrique HSS laminé



1090



HSS

**Laminada
Rolled
Laminé**



D mm	L mm	I mm	📦	Nº Art.	€
1,00	34	12	10	21440	
1,50	40	18	10	21446	
2,00	49	24	10	21452	
2,50	57	30	10	21458	
3,00	61	33	10	21464	
3,25	65	36	10	21470	
3,50	70	39	10	21473	
4,00	75	43	10	21482	

D mm	L mm	I mm	📦	Nº Art.	€
4,25	75	43	10	21485	
4,50	80	47	10	21488	
5,00	86	52	10	21494	
5,50	93	57	10	21503	
6,00	93	57	10	21509	
6,50	101	63	10	21518	
7,00	109	69	10	21527	
7,50	109	69	10	21533	

D mm	L mm	I mm	📦	Nº Art.	€
8,00	117	75	10	21542	
8,50	117	75	10	21548	
9,00	125	81	10	21554	
10,00	133	87	10	21566	
11,00	142	94	5	21581	
12,00	151	101	5	21593	
13,00	151	101	5	21608	

Ref. **1009**

BROCA MANGO CILÍNDRICO HSS LAMINADA

HSS Straight Shank Rolled Drill Bit
Foret queue cylindrique HSS laminé



1009



HSS

**Laminada
Rolled
Laminé**



D mm	L mm	I mm	📦	Nº Art.	€
1,00	34	12	2	30173	*
1,50	40	18	2	30175	*
2,00	49	24	2	30177	*
2,50	57	30	2	30179	*
3,00	61	33	2	30181	*
3,25	65	36	2	30182	*
3,50	70	39	2	30183	*
4,00	75	43	2	30185	*

D mm	L mm	I mm	📦	Nº Art.	€
4,25	75	43	1	30186	
4,50	80	47	1	30187	
5,00	86	52	1	30189	
5,50	93	57	1	30191	
6,00	93	57	1	30193	
6,50	101	63	1	30195	
7,00	109	69	1	30197	
7,50	109	69	1	30199	

D mm	L mm	I mm	📦	Nº Art.	€
8,00	117	75	1	30201	
8,50	117	75	1	30203	
9,00	125	81	1	30205	
10,00	133	87	1	30209	
11,00	142	94	1	30213	
12,00	151	101	1	30217	
13,00	151	101	1	30221	

* € = 2 uds.



Set 1490

6 Pcs

Cont. Ø	Nº Art.	€
2 - 3 - 4 - 5 - 6 - 8 mm	30204	



Set 1491

19 Pcs

Cont. Ø	Nº Art.	€
1 - 10 x 0,5 mm	30206	



Set 1492

25 Pcs

Cont. Ø	Nº Art.	€
1 - 13 x 0,5 mm	30210	



Set 1499

170 Pcs

Cont. Ø	Nº Art.	€
1-10 x 0,5 mm Ø 1-8: 10 pcs/Ø Ø 8,5-10: 5 pcs/Ø	69084	



Ref. 1110

BROCA MANGO CÓNICO HSS

HSS Morse Taper Shank Drill Bit

Foret queue cône morse HSS

Aceros
<850 N/mm²
Steel / AciersAceros
<1000 N/mm²
Steel / AciersFundición
Cast Iron
FonteCobre
Copper
Cuivre

D mm	L mm	I mm	CM	Nº Art.	€	D mm	L mm	I mm	CM	Nº Art.	€	D mm	L mm	I mm	CM	Nº Art.	€
5,00	133	52	1	14426		16,50	223	125	2	14564		28,00	291	170	3	14702	
5,25	133	52	1	14429		16,75	223	125	2	14567		28,25	296	175	3	14705	
5,50	138	57	1	14432		17,00	223	125	2	14570		28,50	296	175	3	14708	
5,75	138	57	1	14435		17,25	228	130	2	14573		28,75	296	175	3	14711	
6,00	138	57	1	14438		17,50	228	130	2	14576		29,00	296	175	3	14714	
6,25	144	63	1	14441		17,75	228	130	2	14579		29,25	296	175	3	14717	
6,50	144	63	1	14444		18,00	228	130	2	14582		29,50	296	175	3	14720	
6,75	150	69	1	14447		18,25	233	135	2	14585		29,75	296	175	3	14723	
7,00	150	69	1	14450		18,50	233	135	2	14588		30,00	296	175	3	14726	
7,25	150	69	1	14453		18,75	233	135	2	14591		30,25	301	180	3	14729	
7,50	150	69	1	14456		19,00	233	135	2	14594		30,50	301	180	3	14732	
7,75	156	75	1	14459		19,25	238	140	2	14597		30,75	301	180	3	14735	
8,00	156	75	1	14462		19,50	238	140	2	14600		31,00	301	180	3	14738	
8,25	156	75	1	14465		19,75	238	140	2	14603		31,25	301	180	3	14741	
8,50	156	75	1	14468		20,00	238	140	2	14606		31,50	301	180	3	14744	
8,75	162	81	1	14471		20,25	243	145	2	14609		31,75	306	185	3	14747	
9,00	162	81	1	14474		20,50	243	145	2	14612		32,00	334	185	4	14750	
9,25	162	81	1	14477		20,75	243	145	2	14615		32,50	334	185	4	14753	
9,50	162	81	1	14480		21,00	243	145	2	14618		33,00	334	185	4	14756	
9,75	168	87	1	14483		21,25	248	150	2	14621		33,50	334	185	4	14759	
10,00	168	87	1	14486		21,50	248	150	2	14624		34,00	339	190	4	14762	
10,25	168	87	1	14489		21,75	248	150	2	14627		34,50	339	190	4	14765	
10,50	168	87	1	14492		22,00	248	150	2	14630		35,00	339	190	4	14768	
10,75	175	94	1	14495		22,25	248	150	2	14633		35,50	339	190	4	14771	
11,00	175	94	1	14498		22,50	253	155	2	14636		36,00	344	195	4	14774	
11,25	175	94	1	14501		22,75	253	155	2	14639		36,50	344	195	4	14777	
11,50	175	94	1	14504		23,00	253	155	2	14642		37,00	344	195	4	14780	
11,75	175	94	1	14507		23,25	276	155	3	14645		37,50	344	195	4	14783	
12,00	182	101	1	14510		23,50	276	155	3	14648		38,00	349	200	4	14786	
12,25	182	101	1	14513		23,75	281	160	3	14651		38,50	349	200	4	14789	
12,50	182	101	1	14516		24,00	281	160	3	14654		39,00	349	200	4	14792	
12,75	182	101	1	14519		24,25	281	160	3	14657		39,50	349	200	4	14795	
13,00	182	101	1	14522		24,50	281	160	3	14660		40,00	349	200	4	14798	
13,25	189	108	1	14525		24,75	281	160	3	14663		40,50	354	205	4	14801	
13,50	189	108	1	14528		25,00	281	160	3	14666		41,00	354	205	4	14804	
13,75	189	108	1	14531		25,25	286	165	3	14669		41,50	354	205	4	14807	
14,00	189	108	1	14534		25,50	286	165	3	14672		42,00	354	205	4	14810	
14,25	212	114	2	14537		25,75	286	165	3	14675		42,50	354	205	4	14813	
14,50	212	114	2	14540		26,00	286	165	3	14678		43,00	359	210	4	14816	
14,75	212	114	2	14543		26,25	286	165	3	14681		43,50	359	210	4	14819	
15,00	212	114	2	14546		26,50	286	165	3	14684		44,00	359	210	4	14822	
15,25	218	120	2	14549		26,75	291	170	3	14687		44,50	359	210	4	14825	
15,50	218	120	2	14552		27,00	291	170	3	14690		45,00	359	210	4	14828	
15,75	218	120	2	14555		27,25	291	170	3	14693		45,50	364	215	4	14831	
16,00	218	120	2	14558		27,50	291	170	3	14696		46,00	364	215	4	14834	
16,25	223	125	2	14561		27,75	291	170	3	14699		46,50	364	215	4	14837	



Ref. 1110

BROCA MANGO CÓNICO HSS

HSS Morse Taper Shank Drill Bit

Foret queue cône morse HSS

D mm	L mm	I mm	CM	Nº Art.	€
47,00	364	215	4	14840	
47,50	364	215	4	14843	
48,00	369	220	4	14846	
48,50	369	220	4	14849	
49,00	369	220	4	14852	
49,50	369	220	4	14855	
50,00	369	220	4	14858	
51,00	412	225	5	14864	
52,00	412	225	5	14867	
53,00	412	225	5	14870	
54,00	417	230	5	14873	
55,00	417	230	5	14876	
56,00	417	230	5	14879	
57,00	422	235	5	14882	
58,00	422	235	5	14885	
59,00	422	235	5	14888	
60,00	422	235	5	14891	
61,00	427	240	5	14894	
62,00	427	240	5	14897	
63,00	427	240	5	14900	

D mm	L mm	I mm	CM	Nº Art.	€
64,00	432	245	5	14903	
65,00	432	245	5	14906	
66,00	432	245	5	14909	
67,00	432	245	5	14912	
68,00	437	250	5	14915	
69,00	437	250	5	14918	
70,00	437	250	5	14921	

D mm	L mm	I mm	CM	Nº Art.	€
81,00	519	265	6	14954	
82,00	519	265	6	14957	
83,00	519	265	6	14960	
84,00	519	265	6	14963	
85,00	519	265	6	14966	
86,00	524	270	6	14969	
87,00	524	270	6	14972	
88,00	524	270	6	14975	
89,00	524	270	6	14978	
90,00	524	270	6	14981	
91,00	529	275	6	14984	
92,00	529	275	6	14987	
93,00	529	275	6	14990	
94,00	529	275	6	14993	
95,00	529	275	6	14996	
96,00	534	280	6	14999	
97,00	534	280	6	15002	
98,00	534	280	6	15005	
99,00	534	280	6	15008	
100,00	534	280	6	15011	



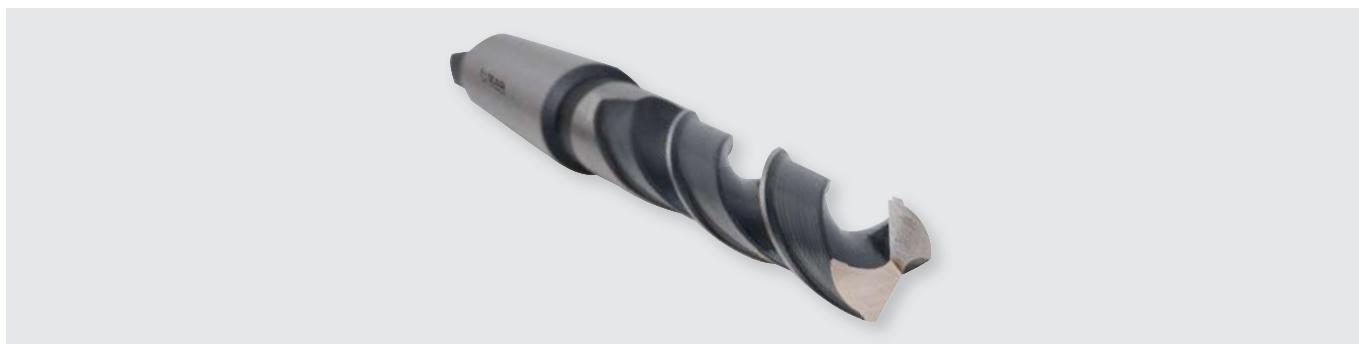
Set 25 Pcs

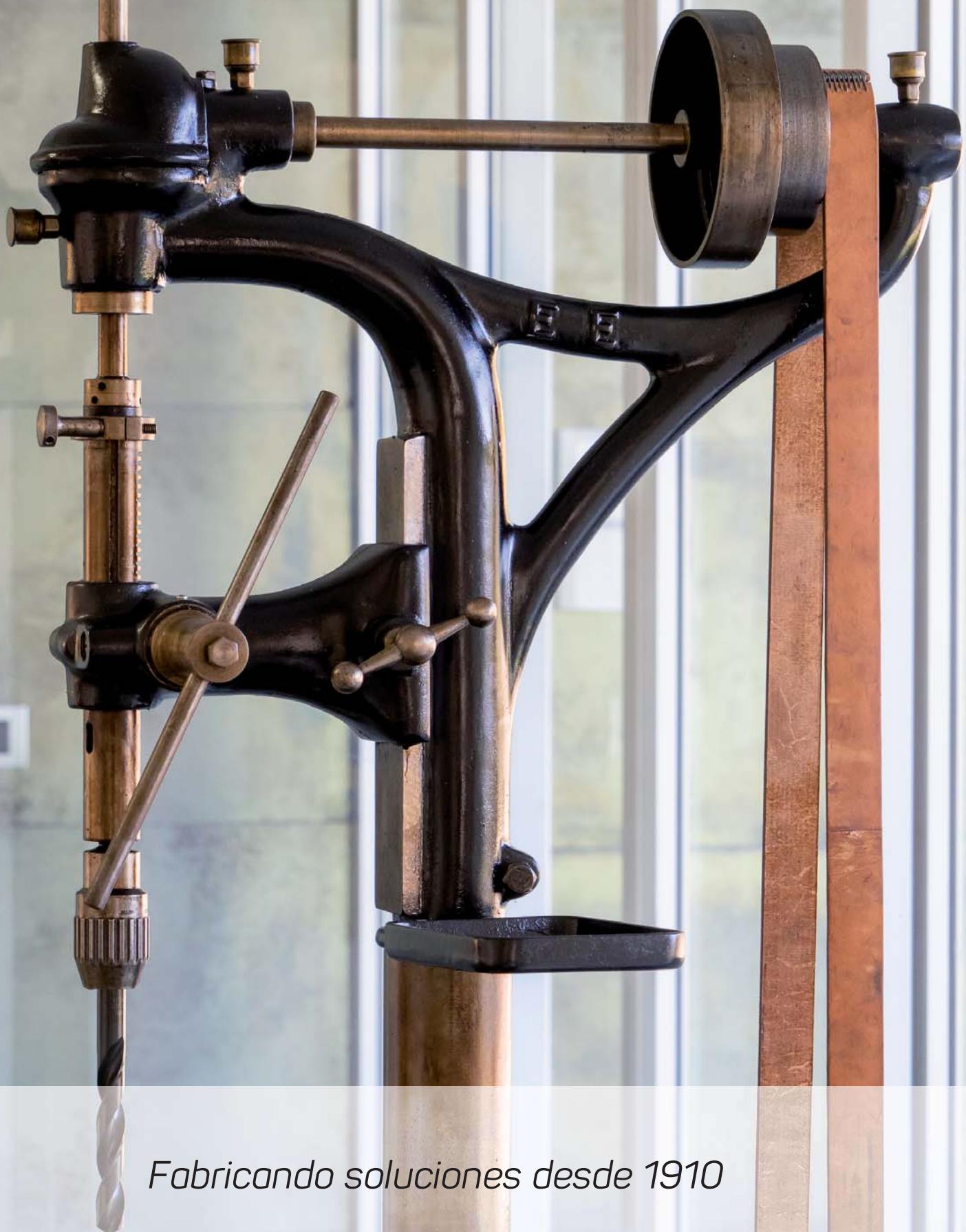


Set 10 Pcs

Cont. Ø	Nº Art.	€
14-14,5-15-15,5-16- 16,5-17-17,5-18-18,5- 19-19,5-20-20,5-21- 21,5-22-22,5-23-24- 25-26-27-28-30 mm	14263	

Cont. Ø	Nº Art.	€
14-15-16-17- 18-19-20-21-22-25 mm	19346	





Fabricando soluciones desde 1910

izartool.com



PORATABROCAS Y ACCESORIOS

Drill Chucks & Accessories

Mandrins et accessoires

Ref. **1802**

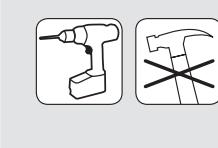
PORATABROCAS TALADROS PORTÁTILES CON LLAVE

Portable Drilling Machine Metal Drill-Chucks with Key

Mandrins métal perceuses portables avec clé



Mod. Monoblock



- 1 única pieza
- Elimina roturas de dientes

- Ideal taladro portátil
- Cierre con llave
- Cuerpo metal
- Agujero interior

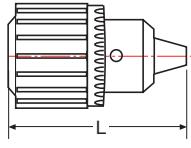
- Only one piece
- No teeth breaking

- Ideal portable drills
- Key-lock
- Metal body
- Internal hole

- 1 Seule pièce
- Pas de casse de dents

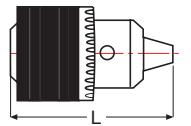
- Perceuses à main
- Fermeture à clé
- Corps Métal
- Trou intérieur

Monoblock



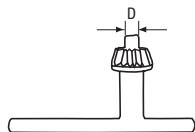
Mod.	Cap. mm	Fijación Fix.	L mm	Peso Weight Poids gr.	Nº Art.	€
00102	1-10	1/2X20 UNF	60	299	47491	
00131	1,5-13	3/8X24 UNF	77	501	47493	

2 Pcs.



Mod.	Cap. mm	Fijación Fix.	L mm	Peso Weight Poids gr.	Nº Art.	€
00101	1-10	3/8X24 UNF	60	311	47490	
00132	1,5-13	1/2X20 UNF	77	492	47494	

Ref. **1807**



D mm	Mod.	Nº Art.	€
6	00102		
	00101	16362	
	00132		
6,3	00131	69316	

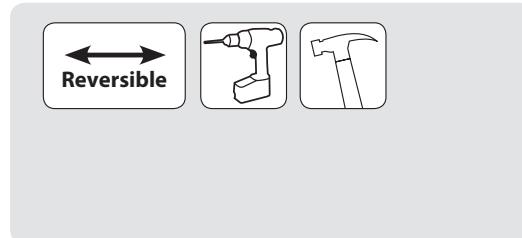




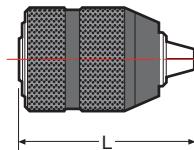
Ref. **1806**

PORTABROCAS TALADROS PORTÁTILES - AUTOMÁTICO METAL

Portable Drilling Machine Drill-Chucks - Metal Automatic
Mandrins perceuses portables – automatique métal



- Cierre seguridad - Security lock - Fermeture sûreté
- Capacidad 13: Garras MD - Capacity 13: carbide jaws - Capacité 13: pinces carbure
- Ideal atornilladores - Ideal screwdrivers - Idéal Tournevis
- Taladros percusión de batería - Battery percussion drills - Perceuses percussion batterie
- Reversible - Reversible - Reversible
- Cuerpo metal ligero - Light metal body - Corps métal léger
- Agujero interior - Internal hole - Trou intérieur
- No apto martillos SDS - Not suitable SDS - Non apte pour SDS

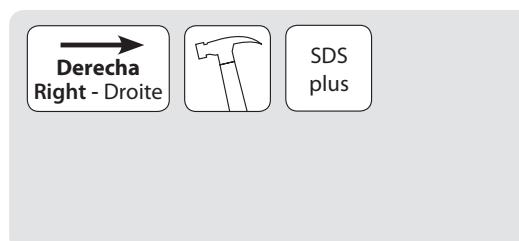


Mod.	Cap. mm	Fijación Fix.	L mm	Peso Weight Poids gr.	Nº Art.	€
00101	1-10	3/8X24 UNF	64,5	311	14706	
00102	1-10	1/2X20 UNF	64,5	313	14712	
00131	2-13	3/8X24 UNF	74,5	397	14718	
00132	2-13	1/2X20 UNF	74,5	328	14736	

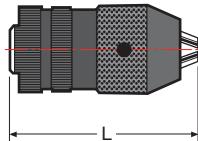
Ref. **1804**

PORTABROCAS TALADROS PORTATILES Y ESTACIONARIOS

Portable & Stationary Drilling Machine Drill-Chucks
Mandrins perceuses portables et fixes



- Cierre seguridad - Security lock - Fermeture sûreté
- Taladros industriales y percusión (aptos martillos alta frecuencia SDS plus) - Industrial & percussion drills (suitable high frequency hammers SDS plus) - Perceuses industrielles et précisions (aptes pour marteaux haute fréquence SDS plus)
- Autoapriete automático - Automatic self-tightening - Auto-attachement



Mod.	Cap. mm	Fijación Fix.	L mm	Peso Weight Poids gr.	Nº Art.	€
00101	0-10	3/8X24 UNF	74	350	16358	
00132	1-13	1/2X20 UNF	96	670	16361	

Ref. **1803**

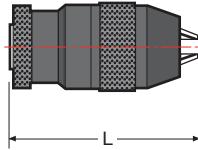
PORTABROCAS PRECISIÓN TALADROS PORTATILES Y ESTACIONARIOS

Portable & Stationary Drilling Machine Precision Drill-Chucks

Mandrins précision perceuses portables et fixes



- Uso Taladros industriales y profesionales
- Fijaciones: Rosca taladro portátil y Cónica taladro fijo
- Autoapriete automático
- Giro a derechas
- Use for Industrial & professional drills
- Fixing: Threaded portable drills & Tapered for fixed drills
- Automatic self-tightening
- Right turning
- Usage perceuses industrielles et professionnelles
- Fixations: Filet perceuse portable et conique perceuse à colonne
- Amenchement automatique
- Tour à droite



Mod.	Cap. mm	Fijación Fix.	L mm	Peso Weight Poids gr.	Nº Art.	€	Garras Jaws Pinces Art.
00101	0,8-10	B12 *	86	619	16349		56894
00102	0,8-10	3/8X24 UNF	78	451	16350		56894
00103	0,8-10	1/2X20UNF	78	452	16351		56894
00131	1-13	B16 *	103	800	16352		24565
00132	2-13	3/8X24 UNF	83	764	16353		56894
00133	2-13	1/2X20 UNF	83	583	16354		56894
00161	3-16	B16	105	1.180	16355		24565
00162	3-16	B18 *	105	1.152	16356		24565
00163	3-16	1/2X20 UNF	105	1.185	16357		24565
00164	5-20	B18 *	131	2.165	19957		24566

* RECOMENDACIONES:

1. Limpiar muy bien la espiga y el agujero del portabrocas antes de introducir la espiga.
2. Cogiendo el porta-brocas en una mano, insertar la espiga con la otra mano.
3. Dar un pequeño golpe seco con una maza de Nylon.

* RECOMMENDATIONS:

1. Thoroughly clean the spindle and the chuck-hole before inserting the spindle.
2. Holding the chuck in one hand, insert the spike with the other hand.
3. Give a small heavy thud with a Nylon mace.

* RECOMMANDATIONS :

1. Nettoyez soigneusement l'arbre d'attachement et le trou du mandrin avant d'insérer l'arbre.
2. En tenant le mandrin d'une main, insérez l'arbre avec l'autre main.
3. Donnez un petit coup sec avec un masse en nylon.



Ref. **1809**

ACCESORIOS

Accessories

Accessoires



00001



00002



00003



00004



00005



00008



00021



Conversores / Converters / Convertisseurs

Mod.	Entrada Inlet Entrée	Fijación Fix	Nº Art.	€
00001	3/8X24h	3/8X24h	16363	
00002	3/8X24h	1/2X20h	16364	
00003	SDS plus	1/2X20h	16365	
00004	SDS max	SDS plus	17258	
00005	Hex. 13 mm	SDS plus	17259	
00008	1/2x20h	SDS plus	20485	
(New!) 00021	Hexagonal	M14	24273	

Tornillos / Screws / Vis

Mod.	Entrada Inlet Entrée	Fijación Fix	 	Nº Art.	€
00010	M5x18 mm	3/8x24	1	25321	
00011	M6x25 mm	1/2x20	1	25323	

Ref. **1819**

GARRAS

Jaws

Pinces



Mod.	Garras Jaws Pinces	Nº Art.	€
1013ROS	10/13 mm ROSCA (Ref. 1803)	56894	
13DIN16	13DIN / 16 mm (Ref. 1803)	24565	
16	16 mm	24566	

Display 12

PORTABROCAS TALADROS PORTATILES Y ESTACIONARIOS

Portable & Stationary Drilling Machine Drill-Chucks

Mandrins perceuses portables et fixes



Ø	Ref. 1802 Cap. 1-10 Fix. 1/2 x 20h	Ref. 1802 Cap. 1,5-13 Fix. 1/2 x 20h	Ref. 1806 Cap. 1-10 Fix. 1/2 x 20h	Ref. 1806 Cap. 1-10 Fix. 1/2 x 20h	Ref. 1806 Cap. 2-13 Fix. 1/2 x 20h	Ref. 1806 Cap. 2-13 Fix. 1/2 x 20h
Pcs	2	2	1	1	1	1
Ø	Ref. 1803 Cap. 0,8-10 Fix. 1/2 x 20h	Ref. 1803 Cap. 2-13 Fix. 1/2 x 20h	Ref. 1804 Cap. 1-13 Fix. 1/2 x 20h	Ref. 1804 Cap. 1-13 Fix. 1/2 x 20h	Ref. 1809 SDS plus Mod. 00003	Ref. 1807 Llave Key - Clé D 6 mm
Pcs	2	2	1	1	5	5

Ref. 4995 - Nº Art. 22334: €

Línea 1m 18PB

PORTABROCAS TALADROS PORTATILES Y ESTACIONARIOS

Portable & Stationary Drilling Machine Drill-Chucks

Mandrins perceuses portables et fixes



Ø	Ref. 1802 Cap. 1-10 Fix 1/2 x 20h	Ref. 1802 Cap. 1,5-13 Fix 1/2 x 20h	Ref. 1803 Cap. 0,8-10 Fix 1/2 x 20h	Ref. 1803 Cap. 2-13 Fix 1/2 x 20h	Ref. 1804 Cap. 1-13 Fix 1/2 x 20h	Ref. 1804 Cap. 1-13 Fix 1/2 x 20h	Ref. 1806 Cap. 1-10 Fix 1/2 x 20h	Ref. 1806 Cap. 2-13 Fix 1/2 x 20h	Ref. 1807 Llave Key - Clé D 6 mm	Ref. 1809 SDS plus Fix 1/2 x 20h
Pcs	2	2	2	2	1	1	2	2	3	5

Ref. 4995 - Nº Art. 72080: €

Línea 33 cm 18PB

PORTABROCAS TALADROS PORTATILES Y ESTACIONARIOS

Portable & Stationary Drilling Machine Drill-Chucks

Mandrins perceuses portables et fixes



Ø	Ref. 1802 Cap. 1,5-13 Fix 1/2 x 20h	Ref. 1803 Cap. 0,8-10 Fix 1/2 x 20h	Ref. 1803 Cap. 2-13 Fix 1/2 x 20h	Ref. 1806 Cap. 1-10 Fix 1/2 x 20h	Ref. 1806 Cap. 2-13 Fix 1/2 x 20h
Pcs	2	2	2	2	2

Ref. 4995 - Nº Art. 72081: €



Ref. **1101**

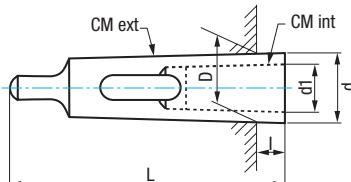
CONO REDUCTOR

Reduction Sleeve
Douille de réduction



HSS

DIN
2185



CM EXT.	CM INT.	L mm	I mm	D mm	d1 mm	d mm	Nº Art.	€
2	1	92	17,00	17,780	12,065	18,60	16415	
3	1	99	5,00	23,825	12,065	24,10	16416	
3	2	112	18,00	23,825	17,780	24,70	16417	
4	1	124	6,50	31,267	12,065	31,60	16418	
4	2	124	6,50	31,267	17,780	31,60	16419	
4	3	140	22,50	31,267	23,825	32,40	16420	
5	3	156	6,50	44,399	23,825	44,70	16421	
5	4	171	21,50	44,399	31,267	45,50	16422	

Ref. **1102**

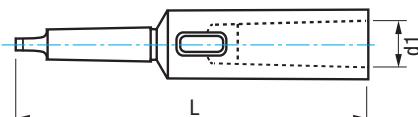
ALARGADOR CONOS

Extension Socket
Douille d'augmentation

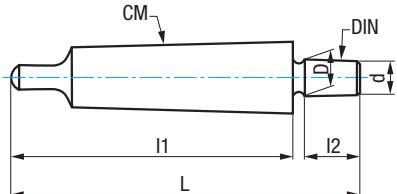


HSS

DIN
2187



CM EXT.	CM INT.	L mm	d1 mm	Nº Art.	€
1	2	160	17,78	16423	
2	1	159	12,07	16427	
2	2	176	17,78	16433	
2	3	195	23,83	16424	
3	1	176	12,07	16428	
3	2	194	17,78	16429	
3	3	215	23,83	16434	
3	4	239	31,27	16425	
4	1	200	12,07	16430	
4	2	215	17,78	16431	
4	3	240	23,83	16432	
4	4	265	31,27	16435	
4	5	299	44,39	16426	

Ref. 1103**ESPIGA SUJECIÓN**Spike CM Taper
Arbre d'attachement**HSS**

CM	DIN	L mm	I1 mm	D mm	d mm	I2 mm		Nº Art.	€
1	B12	89,00	62,00	12,065	11,10	18,50	1	16440	
2	B12	106,00	75,00	12,065	11,10	18,50	1	16441	
2	B16	111,00	75,00	15,733	14,50	24,00	1	16442	
2	B18	118,00	75,00	17,780	16,20	32,00	1	16443	
3	B12	126,00	94,00	12,065	11,10	18,50	1	16444	
3	B16	134,00	94,00	15,733	14,50	24,00	1	16445	
3	B18	140,00	94,00	17,780	16,20	32,00	1	21873	
4	B16	158,00	117,50	15,733	14,50	24,00	1	16446	
4	B18	166,50	117,50	17,780	16,20	32,00	1	16447	
5	B16	194	149,50	15,733	14,50	24,00	1	66764	
5	B18	202	149,50	17,780	16,20	32,00	1	66765	

Ref. 1104**CUÑA EXPULSORA**

Drill Drift

Chasse cône standard

**HSS**

CM Ext. min.	CM Ext. max.	L mm		Nº Art.	€
1	2	116	1	16436	
2	3	150	1	16437	
3	4	199	1	16438	
4	5	251	1	16439	



Ref. **9994**

MÁQUINA AFILADORA BROCAS

Drill Bit Sharpening Machine
Machine affûteuse forets



Mod. **XP**



Mod.	Cap. mm	Punta Point Pointe	Uso Use Usage	Nº Art.	€
XP	2,5-13	118°	HSS, TIN, MD/HM + Split Point	38416	

*Incluida Muela / Wheel included / Compris meule

Mod. **500**



Mod.	Cap. mm	Punta Point Pointe	Uso Use Usage	Nº Art.	€
500	2,5-13	118°-135°	HSS, TIN, HSSE, MD/HM, Pared Masonry / Béton + Split Point	45121	

*Incluida Muela / Wheel included / Compris meule K180

Mod. **750**



Mod.	Cap. mm	Punta Point Pointe	Uso Use Usage	Nº Art.	€
750	2,5-19	115°-140°	HSS, TIN, HSSE, MD/HM + Split Point	38418	

*Incluida Muela / Wheel included / Compris meule K180

PIEZAS RECAMBIO - Spare Parts - Pièces recharge

Porta Brocas - Drill Chucks - Mandrins

Muela - Wheel - Meule

Mod.	Cap. mm	Punta Point Pointe	Nº Art.	€
XP	2,5-13	118°	39712	
500	2,5-13	118°-135°	47218	
500-750	2,5-19	115°-140°	40343	

Mod.	Grano Grain	Máquina Machine	Cap. mm	Nº Art.	€
K180	Fino Fine Fin	XP-500-750	2,5-19	40344	
K100	Grueso Coarse Gros	750	13-19	43414	



BROCAS ESPECIALES

Special Drill Bits

Forets Spéciales

Ref. **1602**

BROCA ESCALONADA HSS

HSS Step Drill Bit
Forêt étagé HSS



- Nueva punta robusta autocentrante
- Avellanado especial 45°
- Menor degaste y esfuerzo de corte
- Mayor rendimiento y vida útil de la herramienta
- Mejor evacuación de viruta
- Acabado sin rebabas

- New autocentering robust point
- Special 45° Counterboring
- Lower wear and cutting effort
- Better performance & longer tool life
- Better chipping-off
- No-burr finishing

- Nouvelle pointe plus robuste autocentrale
- Ébavurage spécial à 45°
- Réduction de l'usure et de l'effort de coupe
- Augmentation de la performance et vie utile de l'outil
- Meilleure évacuation des copeaux
- Finition sans bavures

HSS



Materiales ferrosos
Ferrous Materials
Matériaux ferreux

Aceros
<850 N/mm²
Steel / Aciers

Plásticos
Plastics
Plastiques



Cap. mm	Nº Pasos Steps / Étages	d mm	L mm	Nº Art.	€
4-12	9 (4-5-6-7-8-9-10-11-12)	6	79	12048	
4-20	9 (4-6-8-10-12-14-16-18-20)	9	67	12054	
4-30	14 (4-6-8-10-12-14-16-18-20-22-24-26-28-30)	10	100	66484	
6-30	13 (6-8-10-12-14-16-18-20-22-24-26-28-30)	10	100	12060	
7-37	8 (7-12,5-15,2-18,6-20,4-22,5-28,3-37)	12	90	67619	
9-36	10 (9-12-15-18-21-24-27-30-33-36)	12	82	12066	
12-20	9 (12-13-14-15-16-17-18-19-20)	9	75	56798	
20-30	11 (20-21-22-23-24-25-26-27-28-29-30)	12	88	56799	
30-40	11 (30-40x1)	13	98	60715	
40-50	11 (40-50x1)	13	112	60716	
50-60	11 (50-60x1)	13	120	60717	



Set 3 Pcs

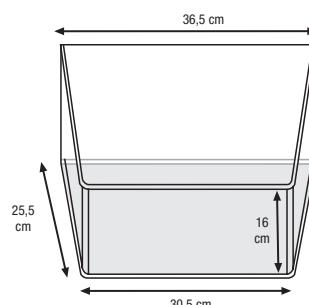
Cont.	Nº Art.	€
4-12, 4-20, 6-30 mm	43518	



**Expo
1602**

EXPOSITOR BROCAS ESCALONADAS

Step Drill Display
Présentoirs Forets Étagés



15 Pcs

Nº Art. €

65184

Cap. mm	Nº Art.	Uds.
4-12	12048	2
4-20	12054	2
6-30	12060	2
9-36	12066	2
12-20	56798	2
20-30	56799	2
30-40	60715	1
40-50	60716	1
50-60	60717	1

**Línea 33 cm
1602**

BROCA ESCALONADA HSS

HSS Step Drill Bit
Foret étagé HSS



Ø	4-12	4-20	4-30	6-30	9-36	12-20
Pcs	1	1	1	1	1	1

Ref. 4995 - Nº Art. 70954: €

Ref. **1612****BROCA ESCALONADA ESPIRAL HSS**HSS **Spiral** Step Drill BitForet étagé **spirale** HSS

- Canal optimizado para virutas largas y complejas
- Avellanado especial 45°
- Filos de corte protegidos y muy afilados
- Sin rebabas
- Mayor vida útil en materiales muy duros
- Autocentrado en chapas finas

- Optimized channel for long and complex chips
- Special 45° Counterboring
- Very sharpened & protected cutting edges
- No burrs
- Longer tool life in very hard materials
- Autocentering in fine sheets

- Goujure optimisée pour copeaux longs et complexes
- Ébavurage spécial à 45°
- Filets des arêtes de coupe protégés et plus affûtés
- Sans bavures
- Vie utile plus longue pour aciers plus durs
- Autocentrage sur toles minces

HSS

118°

**Chapa Sheets**

Tôle

Materiales ferrosos

Ferrous Materials

Matériaux ferreux

Aceros
<850 N/mm²
Steel / Aciers**Plásticos**
Plastics
Plastiques

Cap. mm	Nº Pasos Steps / Étages	d mm	L mm	Nº Art.	€
4-12	9 (4-5-6-7-8-9-10-11-12)	6	80	67360	
4-20	9 (4-6-8-10-12-14-16-18-20)	9	69	67366	
6-30	13 (6-8-10-12-14-16-18-20-22-24-26-28-30)	10	99	67368	
6-38	12 (6-9-13-16-19-21-23-26-29-32-35-38)	12	97	69557	

**Set 3 Pcs**

Cont.	Nº Art.	€
4-12, 4-20, 6-30 mm	67357	

Línea 33 cm**1612****BROCA ESCALONADA ESPIRAL HSS**HSS **Spiral** Step Drill BitForet étagé **spirale** HSS

Ø	4-12	4-20	6-30	6-38
Pcs	1	1	1	1

Ref. 4995 - Nº Art. 70958: **€**



Ref. **1607**

BROCA ESCALONADA HSSE INOX

Stainless HSSE Step Drill Bit

Foret étagé HSSE Inox



- Nueva punta robusta autocentrante

- Avellanado especial 45°

- Menor degaste y esfuerzo de corte

- Mayor rendimiento y vida útil de la herramienta

- Mejor evacuación de viruta

- Acabado sin rebabas

- New autocentering robust point

- Special 45° Counterboring

- Lower wear and cutting effort

- Better performance & longer tool life

- Better chipping-off

- No-burr finishing

- Nouvelle pointe plus robuste autocentrante

- Ébavurage spécial à 45°

- Réduction de l'usure et de l'effort de coupe

- Augmentation de la performance et vie utile de l'outil

- Meilleure évacuation des copeaux

- Finition sans bavures

**HSSE
5% Co**



**Chapa
Sheets
Tôle**

**Materiales ferrosos
Ferrous Materials
Matériaux ferreux**

**Aceros
<850 N/mm²
Steel / Aciers**

**INOX
Stainless Steel
Acier INOX**

**Cobre
Copper
Cuivre**

**Aluminio
Aluminium**

**Plásticos
Plastics
Plastiques**



Cap. mm	Nº Pasos Steps / Étages	d mm	L mm	Nº Art.	€
4-12	9 (4-5-6-7-8-9-10-11-12)	6	79	12072	
4-20	9 (4-6-8-10-12-14-16-18-20)	8	67	12078	
6-30	13 (6-8-10-12-14-16-18-20-22-24-26-28-30)	10	100	12084	
9-36	10 (9-12-15-18-21-24-27-30-33-36)	12	82	67299	
12-20	9 (12-13-14-15-16-17-18-19-20)	9	75	60835	
20-30	11 (20-21-22-23-24-25-26-27-28-29-30)	12	88	60837	
30-40	11 (30-40x1)	13	98	60838	
40-50	11 (40-50x1)	13	112	60839	
50-60	11 (50-60x1)	13	120	60840	



Set 3 Pcs

Cont.	Nº Art.	€
4-12, 4-20, 6-30 mm	43519	

Línea 33 cm
1607

BROCA ESCALONADA HSSE INOX

Stainless HSSE Step Drill Bit

Foret étagé HSSE Inox



Ø	4-12	4-20	6-30	9-36	12-20
Pcs	1	1	1	1	1

Ref. 4995 - Nº Art. 70961: €



Ref. 1617

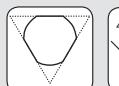
BROCA ESCALONADA ESPIRAL HSSE INOX

Stainless HSSE Spiral Step Drill Bit

Foret étagé spirale HSSE Inox



- Canal optimizado para virutas largas y complejas
- Avellanado especial 45°
- Filos de corte protegidos y muy afilados
- Sin rebabas
- Mayor vida útil en materiales muy duros
- Autocentrado en chapas finas
- Optimized channel for long and complex chips
- Special 45° Counterboring
- Very sharpened & protected cutting edges
- No burrs
- Longer tool life in very hard materials
- Autocentering in fine sheets
- Goujure optimisée pour copeaux longs et complexes
- Ébavurage spécial à 45°
- Filets des arêtes de coupe protégés et plus affûtés
- Sans bavures
- Vie utile plus longue pour aciers plus durs
- Autocentrage sur toles minces

HSSE
5% Co

Materiales ferrosos
Ferrous Materials
Matériaux ferreux

Aceros
<850 N/mm²
Steel / AciersINOX
Stainless Steel
Acier INOXCobre
Copper
CuivreAluminio
AluminiumPlásticos
Plastics
Plastiques

Cap. mm	Nº Pasos* Steps* / Étages*	d mm	L mm	Nº Art.	€
4-12	9 (4-5-6-7-8-9-10-11-12)	6	80	67314	
4-20	9 (4-6-8-10-12-14-16-18-20)	9	69	67316	
6-30	13 (6-8-10-12-14-16-18-20-22-24-26-28-30)	10	99	67318	



Set 3 Pcs

Cont.	Nº Art.	€
4-12, 4-20, 6-30 mm	67317	

Línea 33 cm
1617

BROCA ESCALONADA ESPIRAL HSSE INOX

Stainless HSSE Spiral Step Drill Bit

Foret étagé spirale HSSE Inox



Ø	4-12	4-20	6-30
Pcs	1	1	1

Ref. 4995 - Nº Art. 70964: €



Ref. **1603**

BROCA TUBO/CHAPA

Tube-Sheet Drill Bit

Foret ampli-trou



- Nueva geometría
- Menor desgaste, mayor vida útil de la herramienta
- Mayor velocidad de corte
- Materia prima de última generación

- New geometry
- Lower wear and longer tool life
- Higher cutting speed
- Last generation raw material

- Nouvelle Géométrie
- Réduction de l'usure, vie plus longue de l'outil
- Augmentation de la vitesse de coupe
- Matière première dernière génération

HSS



Chapa Sheets
Tôle
Metal no ferroso
Non-Ferrous Metal
Métal non ferreux

Aceros
<850 N/mm²
Steel / Aciers

Plásticos
Plastics
Plastiques



Cap. mm	d mm	L mm	Nº Art. HSS	€
3-14	6	60	12090	
4-25,4	10	90	69921	
5-20	8	66	69920	
8-20	8	62	69924	
16-30,5	10	72	12096	

Cap. mm	d mm	L mm	Nº Art. HSS	€
26-40	12	85	69922	
36-50	12	97	12100	
40-61*	13	103	12102	
46-60	13	96	69923	

* Cap. hasta fin de existencias / while stock lasts / jusqu'à la fin de stock

Línea 33 cm
1603

BROCA TUBO/CHAPA

Tube-Sheet Drill Bit

Foret ampli-trou



Ø	3-14	4-25,4	5-20	16-30,5	36-50
Pcs	1	1	1	1	1

Ref. 4995 - Nº Art. 72084: €



Ref. **1609**

BROCA TUBO/CHAPA

Tube-Sheet Drill Bit

Foret ampli-trou



- Nueva geometría
- Menor desgaste, mayor vida útil de la herramienta
- Mayor velocidad de corte
- Materia prima de última generación

- New geometry
- Lower wear and longer tool life
- Higher cutting speed
- Last generation raw material

- Nouvelle Géométrie
- Réduction de l'usure, vie plus longue de l'outil
- Augmentation de la vitesse de coupe
- Matière Première dernière génération

HSSE
5% Co



20-30°



Chapa
Sheets
Tôle

Metal no ferroso
Non-Ferrous Metal
Métal non ferreux

Aceros
<850 N/mm²
Steel / Aciers

INOX
Stainless Steel
Acier INOX

Plásticos
Plastics
Plastiques



Cap. mm	d mm	L mm	Nº Art.	€
3-14	6	60	12108	
4-30,5	10	102	69926	
8-20	8	62	69925	
16-30,5	10	72	12111	

Línea 33 cm
1609

BROCA TUBO/CHAPA

Tube-Sheet Drill Bit

Foret ampli-trou



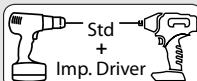
Ø	3-14	4-30,5	8-20	16-30,5
Pcs	1	1	1	1

Ref. 4995 - Nº Art. 72087: €

Ref. **1611****BROCA MANGO E6.3 EXTRA CORTA**

E6.3 Shank Stub drill Bit

Foret queue E6.3 extra-courte

**HSS**

D mm	L mm	I mm	d mm	Nº Art.	€
2,00	47	16	6,35	1	56512
3,00	47	16	6,35	1	15864
3,20	47	16	6,35	1	56515
3,25	47	16	6,35	1	15865
3,50	47	16	6,35	1	15892
4,00	53	20	6,35	1	15894
4,20	53	20	6,35	1	56516
4,25	53	20	6,35	1	15898
4,50	53	20	6,35	1	15899
5,00	59	26	6,35	1	15900
5,50	59	26	6,35	1	15902
6,00	59	26	6,35	1	15903
6,50	59	26	6,35	1	15904
7,00	59	26	6,35	1	15905
8,00	59	32	6,35	1	15906

**Línea 33 cm
1611****BROCA MANGO E6.3 EXTRA CORTA**

E6.3 Shank Stub drill Bit

Foret queue E6.3 extra-courte



Ø	3	4	5	6	8
Pcs	5	5	5	5	5

Ref. 4995 - Nº Art. 72198: €

Ref. 1461**SET BROCAS MANGO HEXAGONAL 1/4" Y PUNTAS DE ATORNILLAR**

Hexagonal Shank Drill Bit and Screwdriver Bit Set

Jeu de forets hexagonales et embouts vissage

**6 Sets**

Nº Art.	€
19322	

**Set 17 Pcs**

Nº Art.	€
82204	21,35

Brocas Metal
Metal Drill Bits
Forets Métal
3-4-5-6 mm

	PH1 PH2 PH3
d mm: 6,35 L mm: 25 mm	

	PZ1 PZ2 PZ3
d mm: 6,35 L mm: 60 - d mm: 6,35	

d mm: 6,35
T10
T15
T20
T25
T30
T40

Adapt. Quick-Lock
INOX/Stainless
d mm: 6,35
L mm: 60 - d mm: 6,35

Display 54

BROCAS METAL + PARED + MADERA

Metal + Masonry + Wood Drill Bits

Forets Métal + Maçonnerie + Bois



Ref. 1611								
Ø	2	3	3,25	3,5	4	5	6	8
Pcs	3	3	3	3	3	3	3	3

Ref. 1610							Ref. 1601	
Ø	M3	M4	M5	M6	M8	M10	4	5
Pcs	2	2	2	2	2	2	3	3

Ref. 1601				Ref. 1621				
Ø	6	8	10	3	4	5	6	8
Pcs	3	3	3	3	3	3	3	3

Ref. 4995 - Nº Art. 69804: €

Ref. 1604

BROCA CORTA PUNTOS SOLDADURA

Welding Point Jobber Drill Bit

Foret courte points soudure



HSSE
5% Co



Serie Corta
Jobber Series
Série courte

D mm	L mm	I mm	Nº Art.	€
6,00	66	28	16326	
8,00	80	37	16327	
10,00	89	43	66909	



Ref. 1604 zirkonio
bajo demanda
upon request
sur demande

Ref. 1605

BROCA CORTA PUNTOS SOLDADURA

Welding Point Jobber Drill Bit

Foret courte points soudure



HSSE
8% Co



S. Extra-Corta
Stub Series
Série extra-courte

D mm	L mm	I mm	Nº Art.	€
8,00	38	15	16328	
8,00	45	15	16329	
10,00	45	15	70687	



Ref. 1605 zirkonio
bajo demanda
upon request
sur demande

Ref. 1606

BROCA FRESA

Milling Drill

Foret à découper la tôle



HSS



D mm	L mm	Nº Art.	€
6,00	90	16330	
8,00	95	16331	





Ref. **1610**

BROCA-MACHO-AVELLANADOR

Combi Tap With Countersink

Outil multi-fonction



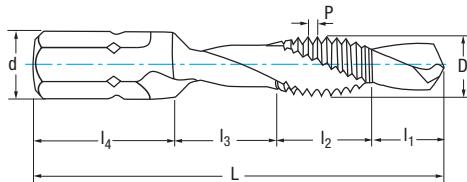
**NEW
PACKAGING!**

HSS

DIN
3126



Aceros
<850 N/mm²
Steel / Aciers



D mm	L mm	l1 mm	l2 mm	l3 mm	l4 mm	d mm	P	Avellanado Counterboring		Nº Art.	€
								Fraisage mm	Fraise		
M3	36	5	8	7	12	6,35	0,50	7,00	1	12567	
M4	39	5	11	8	12	6,35	0,70	7,00	1	12571	
M5	41	7	11	9	12	6,35	0,80	7,00	1	12577	
M6	44	8	11	10	12	6,35	1,00	7,00	1	10971	
M8	50	11	15	10	12	6,35	1,25	9,00	1	12582	
M10	59	12	21	10	12	6,35	1,50	11,00	1	12583	



Set 7 Pcs

Cont. Ø	Nº Art.	€
M3-M4-M5-M6-M8-M10-Adapt.	11025	

Línea 33 cm
1610

BROCA-MACHO-AVELLANADOR

Combi Tap With Countersink

Outil multi-fonction



15
cm

Ø	M3	M4	M5	M6	M8
Pcs	2	2	2	2	2

Ref. 4995 - Nº Art. 72199: €



FRESAS HUECAS

Hole-Cutters

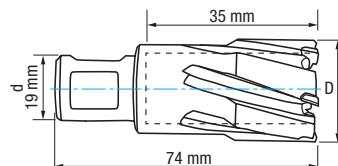
Fraises à carotter

Ref. **4078**

FRESA HUECA MÁQUINAS ELECTROMAGNÉTICAS TCT CORTA

Short TCT Core Drill

Fraise à carotter pour unité de perçage électromagnétique TCT courte



**MD/HM
TCT**

**Serie Corta
Jobber Series
Série courte**

**Apto con Poca Lubricación
Suitable with Minimal Cooling
Apte avec lubrification minimale**

**DOBLE
WELDON**

**Aceros
<850 N/mm²
Steel / Aciers**

**INOX
Stainless Steel
Acier INOX**

**Fundición
Cast Iron
Fonte**

**Cobre
Copper
Cuivre**

**Latón
Brass
Laiton**

**Madera
Wood
Bois**

D mm	d mm	L mm	I mm	Nº Art.	€	D mm	d mm	L mm	I mm	Nº Art.	€	D mm	d mm	L mm	I mm	Nº Art.	€
14	19	74	35	61963		30	19	74	35	61980		46	19	74	35	61996	
15	19	74	35	61964		31	19	74	35	61981		47	19	74	35	61997	
16	19	74	35	61965		32	19	74	35	61982		48	19	74	35	61998	
17	19	74	35	61966		33	19	74	35	61983		49	19	74	35	61999	
18	19	74	35	61967		34	19	74	35	61984		50	19	74	35	62000	
19	19	74	35	61968		35	19	74	35	61985		51	19	74	35	62001	
20	19	74	35	61969		36	19	74	35	61986		52	19	74	35	62002	
21	19	74	35	61970		37	19	74	35	61987		53	19	74	35	62003	
22	19	74	35	61971		38	19	74	35	61988		54	19	74	35	62004	
23	19	74	35	61973		39	19	74	35	61989		55	19	74	35	62005	
24	19	74	35	61974		40	19	74	35	61990		56	19	74	35	62006	
25	19	74	35	61975		41	19	74	35	61991		57	19	74	35	62007	
26	19	74	35	61976		42	19	74	35	61992		58	19	74	35	62008	
27	19	74	35	61977		43	19	74	35	61993		59	19	74	35	62009	
28	19	74	35	61978		44	19	74	35	61994		60	19	74	35	62010	
29	19	74	35	61979		45	19	74	35	61995							

Línea 33 cm
4078

FRESA HUECA MÁQUINAS ELECTROMAGNÉTICAS TCT CORTA

Short TCT Core Drill

Fraise à carotter pour unité de perçage électromagnétique TCT courte



Ø	14	16	18	20	22
Pcs	2	2	2	2	2

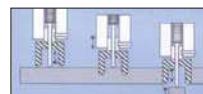
Ref. 4995 - Nº Art. 70967: €

Ref. **4075**

EXPULSORES

Pilot Pins
Ejecteurs

HSS



D mm	L mm	Cap. mm	Para/For/Pour Ref.	Nº Art.	€
6,34	90	12-17	4078 (35 mm)	65905	
* 6,34	116	12-17	4078 (35 mm)	71750	
7,98	90	18-60	4078 (35 mm)	65907	
* 7,98	118	18-60	4078 (35 mm)	71880	

* Para uso con adaptador

When using with adapter / Pour usage avec adaptateur

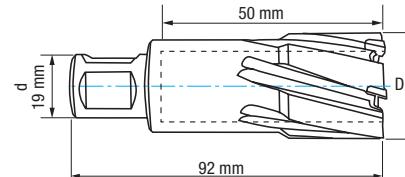


Ref. **4077**

FRESA HUECA MÁQUINAS ELECTROMAGNÉTICAS TCT LARGA

Long TCT Core Drill

Fraise à carotter pour unité de perçage électromagnétique TCT longue



**MD/HM
TCT**

**Serie Larga
Long Length
Série longue**

**Apto con Poca Lubricación
Suitable with Minimal Cooling
Apte avec lubrification minimale**

**DOBLE
WELDON**

**Aceros
<850 N/mm²
Steel / Aciers**

**INOX
Stainless Steel
Acier INOX**

**Fundición
Cast Iron
Fonte**

**Cobre
Copper
Cuivre**

**Latón
Brass
Laiton**

**Madera
Wood
Bois**

D mm	d mm	L mm	I mm	Nº Art.	€
14	19	92	50	56746	
15	19	92	50	56747	
16	19	92	50	56749	
17	19	92	50	56750	
18	19	92	50	56752	
19	19	92	50	56753	
20	19	92	50	56754	
21	19	92	50	56755	
22	19	92	50	56756	
23	19	92	50	56757	
24	19	92	50	56758	
25	19	92	50	56759	
26	19	92	50	56760	
27	19	92	50	56761	
28	19	92	50	56762	
29	19	92	50	56763	

D mm	d mm	L mm	I mm	Nº Art.	€
30	19	92	50	56764	
31	19	92	50	56765	
32	19	92	50	56766	
33	19	92	50	56767	
34	19	92	50	56768	
35	19	92	50	56769	
36	19	92	50	56770	
37	19	92	50	56771	
38	19	92	50	56772	
39	19	92	50	56773	
40	19	92	50	56774	
41	19	92	50	56775	
42	19	92	50	56776	
43	19	92	50	56777	
44	19	92	50	56778	
45	19	92	50	56779	

D mm	d mm	L mm	I mm	Nº Art.	€
46	19	92	50	56780	
47	19	92	50	56781	
48	19	92	50	56782	
49	19	92	50	56783	
50	19	92	50	56784	
51	19	92	50	56785	
52	19	92	50	56786	
53	19	92	50	56787	
54	19	92	50	56788	
55	19	92	50	56789	
56	19	92	50	56790	
57	19	92	50	56791	
58	19	92	50	56792	
59	19	92	50	56793	
60	19	92	50	56794	

**Línea 33 cm
4077**

FRESA HUECA MÁQUINAS ELECTROMAGNÉTICAS TCT LARGA

Long TCT Core Drill

Fraise à carotter pour unité de perçage électromagnétique TCT longue



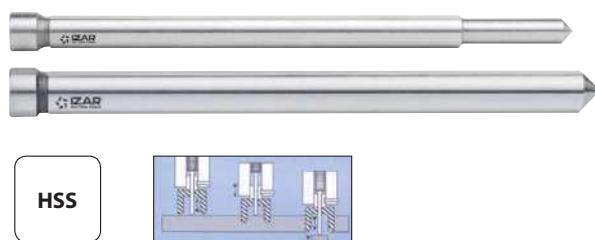
Ø	14	16	18	20	22
Pcs	2	2	2	2	2

Ref. 4995 - Nº Art. 70970: €

Ref. **4075**

EXPULSORES

Pilot Pins
Ejecteurs



D mm	L mm	Cap. mm	Para/For/Pour Ref.	Nº Art.	€
6,34	106	12-17	4077 (50 mm)	61501	
* 6,34	127	12-17	4077 (50 mm)	71878	
7,98	105	18-60	4077 (50 mm)	61503	
* 7,98	130	18-60	4077 (50 mm)	71883	

* Para uso con adaptador

When using with adapter / Pour usage avec adaptateur

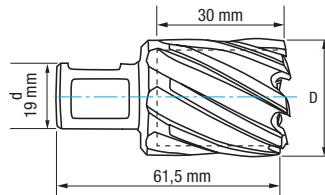


Ref. 4070

FRESA HUECA MÁQUINAS ELECTROMAGNÉTICAS HSS CORTA

Short HSS Core Drill

Fraise à carotter pour unité de perçage électromagnétique HSS courte



HSS

Serie Corta
Jobber Series
Série courte

Aceros Construcción
Structural Steels
Aciers de construction

Apto con Poca Lubricación
Suitable with Minimal Cooling
Apte avec lubrification minimale

DOBLE
WELDON

Aceros
<850 N/mm²
Steel / Aciers

Aceros
<1000 N/mm²
Steel / Aciers

Fundición
Cast Iron
Fonte



D mm	d mm	L mm	I mm	Nº Art.	€
12	19	61,5	30	21106	
13	19	61,5	30	21107	
14	19	61,5	30	21108	
15	19	61,5	30	21109	
16	19	61,5	30	21110	
17	19	61,5	30	21111	
18	19	61,5	30	21112	
19	19	61,5	30	21113	
20	19	61,5	30	21114	
21	19	61,5	30	21115	
22	19	61,5	30	21116	
23	19	61,5	30	21117	
24	19	61,5	30	21118	
25	19	61,5	30	21119	
26	19	61,5	30	21120	
27	19	61,5	30	21121	
28	19	61,5	30	21122	
29	19	61,5	30	21123	
30	19	61,5	30	21124	
31	19	61,5	30	21125	
32	19	61,5	30	21126	
33	19	61,5	30	21127	
34	19	61,5	30	21128	
35	19	61,5	30	21129	
36	19	61,5	30	21130	

D mm	d mm	L mm	I mm	Nº Art.	€
37	19	61,5	30	21131	
38	19	61,5	30	21132	
39	19	61,5	30	21133	
40	19	61,5	30	21134	
41	19	61,5	30	21135	
42	19	61,5	30	21136	
43	19	61,5	30	21137	
44	19	61,5	30	21138	
45	19	61,5	30	21139	
46	19	61,5	30	21140	
47	19	61,5	30	21141	
48	19	61,5	30	21142	
49	19	61,5	30	21143	
50	19	61,5	30	21144	
51	19	61,5	30	21145	
52	19	61,5	30	21146	
53	19	61,5	30	21147	
54	19	61,5	30	21148	
55	19	61,5	30	21149	
56	19	61,5	30	21150	
57	19	61,5	30	21151	
58	19	61,5	30	21152	
59	19	61,5	30	21153	
60	19	61,5	30	21154	



Set 6 Pcs

Cont. Ø	Nº Art.	€
12-14-		
16-18-		
20-22	66858	



Set 5 Pcs

Cont. Ø	Nº Art.	€
24-26-		
28-30-		
32	66859	

Línea 33 cm

4070

FRESA HUECA MÁQUINAS ELECTROMAGNÉTICAS HSS CORTA

Short HSS Core Drill

Fraise à carotter pour unité de perçage électromagnétique HSS courte



Ø	14	16	18	20	22
Pcs	2	2	2	2	2

Ref. 4995 - Nº Art. 70974: €

Ref. 4075

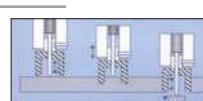
EXPULSORES

Pilot Pins

Ejecteurs



HSS



D mm	L mm	Para/For/Pour Ref.	Nº Art.	€
6,34	77	4070 (30 mm)	61502	
* 6,34	102	4070 (30 mm)	61500	

* Para uso con adaptador
When using with adapter
Pour usage avec adaptateur

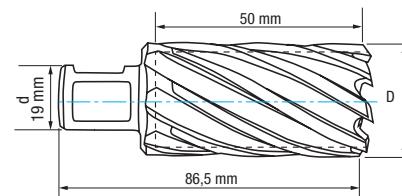


Ref. **4071**

FRESA HUECA MÁQUINAS ELECTROMAGNÉTICAS HSS LARGA

Long HSS Core Drill

Fraise à carotter pour unité de perçage électromagnétique HSS longue



HSS

Serie Larga
Long Length
Série longue

Aceros Construcción
Structural Steels
Aciers de construction

Apto con Poca Lubricación
Suitable with Minimal Cooling
Apte avec lubrification minimale

Rectificado
Ground
Taillé meulé

DOBLE
WELDON

Aceros
<850 N/mm²
Steel / Aciers

Aceros
<1000 N/mm²
Steel / Aciers

Fundición
Cast Iron
Fonte

Aluminio
Aluminium



D	d	L	I	Nº Art.	€
mm	mm	mm	mm		
12	19	86,5	50	73338	
13	19	86,5	50	73339	
14	19	86,5	50	21157	
15	19	86,5	50	21158	
16	19	86,5	50	21159	
17	19	86,5	50	21160	
18	19	86,5	50	21161	
19	19	86,5	50	21162	
20	19	86,5	50	21163	
21	19	86,5	50	21164	
22	19	86,5	50	21165	
23	19	86,5	50	21166	
24	19	86,5	50	21167	
25	19	86,5	50	21168	
26	19	86,5	50	21169	
27	19	86,5	50	21170	

D	d	L	I	Nº Art.	€
mm	mm	mm	mm		
28	19	86,5	50	21171	
29	19	86,5	50	21172	
30	19	86,5	50	21173	
31	19	86,5	50	21174	
32	19	86,5	50	21175	
33	19	86,5	50	21177	
34	19	86,5	50	21178	
35	19	86,5	50	21179	
36	19	86,5	50	21180	
37	19	86,5	50	21181	
38	19	86,5	50	21182	
39	19	86,5	50	21183	
40	19	86,5	50	21184	
41	19	86,5	50	21185	
42	19	86,5	50	21186	
43	19	86,5	50	21187	
44	19	86,5	50	21188	

D	d	L	I	Nº Art.	€
mm	mm	mm	mm		
45	19	86,5	50	21189	
46	19	86,5	50	21190	
47	19	86,5	50	21191	
48	19	86,5	50	21192	
49	19	86,5	50	21193	
50	19	86,5	50	21194	
51	19	86,5	50	21195	
52	19	86,5	50	21196	
53	19	86,5	50	21197	
54	19	86,5	50	21198	
55	19	86,5	50	21199	
56	19	86,5	50	21200	
57	19	86,5	50	21201	
58	19	86,5	50	21202	
59	19	86,5	50	21203	
60	19	86,5	50	21204	

Línea 33 cm
4071

FRESA HUECA MÁQUINAS ELECTROMAGNÉTICAS HSS LARGA
Long HSS Core Drill
Fraise à carotter pour unité de perçage électromagnétique HSS longue



ø	14	16	18	20	22
Pcs	2	2	2	2	2

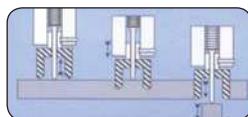
Ref. 4995 - Nº Art. 70978: €

Ref. **4075**

EXPULSORES
Pilot Pins
Ejecteurs



HSS



D	L	Para/For/Pour	Nº	€
mm	mm	Ref.	Art.	
6,34	102	4071 (50 mm)	61500	
* 6,34	127	4071 (50 mm)	71878	

* Para uso con adaptador
When using with adapter / Pour usage avec adaptateur

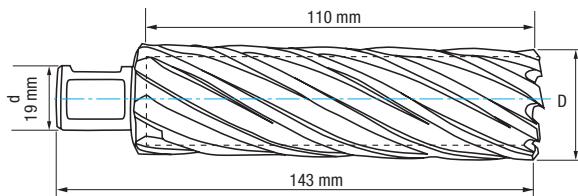


Ref. **4072**

FRESA HUECA MÁQUINAS ELECTROMAGNÉTICAS HSS EXTRA LARGA

Extra Long HSS Core Drill

Fraise à carotter pour unité de perçage électromagnétique HSS extra-longue



HSS

Serie Extra-Larga
Extra-Long Series
Série extra-longue

Aceros Construcción
Structural Steels
Aciers de construction

Apto con Poca Lubricación
Suitable with Minimal Cooling
Apte avec lubrification minimale

DOBLE
WELDON

Aceros
<850 N/mm²
Steel / Aciers

Aceros
<1000 N/mm²
Steel / Aciers

Fundición
Cast Iron
Fonte

Aluminio
Aluminium



D mm	d mm	L mm	I mm	Nº Art.	€	D mm	d mm	L mm	I mm	Nº Art.	€	D mm	d mm	L mm	I mm	Nº Art.	€
20	19	143	110	56694		31	19	143	110	56706		42	19	143	110	56718	
21	19	143	110	56695		32	19	143	110	56707		43	19	143	110	56719	
22	19	143	110	56696		33	19	143	110	56708		44	19	143	110	56721	
23	19	143	110	56697		34	19	143	110	56709		45	19	143	110	56722	
24	19	143	110	56698		35	19	143	110	56710		46	19	143	110	56724	
25	19	143	110	56699		36	19	143	110	56711		47	19	143	110	56725	
26	19	143	110	56700		37	19	143	110	56712		48	19	143	110	56727	
27	19	143	110	56701		38	19	143	110	56714		49	19	143	110	56728	
28	19	143	110	56702		39	19	143	110	56715		50	19	143	110	56730	
29	19	143	110	56703		40	19	143	110	56716							
30	19	143	110	56704		41	19	143	110	56717							

Línea 33 cm

4072

FRESA HUECA MÁQUINAS ELECTROMAGNÉTICAS HSS EXTRA LARGA

Extra Long HSS Core Drill

Fraise à carotter pour unité de perçage électromagnétique HSS extra-longue



Ø	20	22	26	32	40
Pcs	1	1	1	1	1

Ref. 4995 - Nº Art. 72090: €

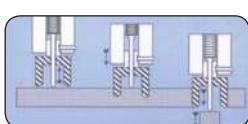
Ref. **4075**

EXPULSORES

Pilot Pins
Ejecteurs



HSS



D mm	L mm	Para/For/Pour Ref.	Nº Art.	€
7,98	154	4072 (110 mm)	61504	
* 7,98	180	4072 (110 mm)	71885	

* Para uso con adaptador
When using with adapter
Pour usage avec adaptateur

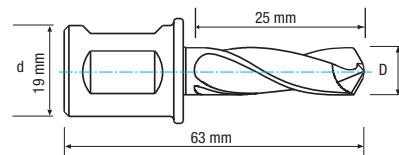


Ref. **4079**

BROCA MÁQUINAS ELECTROMAGNÉTICAS HSS

HSS Solid Drill

Forêt pour unité de perçage électromagnétique HSS



HSS

Serie Corta
Jobber Series
Série courte

Aceros Construcción
Structural Steels
Aciers de construction

Apto con Poca Lubricación
Suitable with Minimal Cooling
Apte avec lubrification minimale

DOBLE
WELDON

Aceros
<850 N/mm²
Steel / Aciers

Aceros
<1000 N/mm²
Steel / Aciers

Fundición
Cast Iron
Fonte



D mm	d mm	L mm	I mm	Nº Art.	€
6	19	63	25	69758	
8	19	63	25	69761	
10	19	63	25	69763	
12	19	63	25	69768	
14	19	63	25	69769	

Línea 33 cm
4079

BROCA MÁQUINAS ELECTROMAGNÉTICAS HSS

HSS Solid Drill

Forêt pour unité de perçage électromagnétique HSS



Ø	6	8	10	12	14
Pcs	1	1	1	1	1

Ref. 4995 - Nº Art. 70982: €





Ref. **4076**

AVELLANADOR MÁQUINA ELECTROMAGNÉTICA

Core Drill Countersink

Fraise à noyer pour unité de perçage électromagnétique



HSS



3 Z

**DOBLE
WELDON**

**Aceros
<850 N/mm²
Steel / Aciers**

**INOX
Stainless Steel
Acier INOX**

**Fundición
Cast Iron
Fonte**

**Cobre
Copper
Cuivre**

**Latón
Brass
Laiton**

**Madera
Wood
Bois**

D+ mm	D- mm	d mm	L mm	Nº Art.	€
25	3	19	45	61505	
30	3	19	47	61506	
40	3	19	52	61507	
50	3	19	57	61508	
55	3	19	60	61509	

**Línea 33 cm
4076**

AVELLANADOR MÁQUINA ELECTROMAGNÉTICA

Core Drill Countersink

Fraise à noyer pour unité de perçage électromagnétique



Ø	25	30	40	50	55
Pcs	1	1	1	1	1

Ref. 4995 - Nº Art. 72093:

€





Ref. **4074**

ADAPTADOR FRESA HUECA MÁQUINA ELECTROMAGNÉTICA

Core Drill Adaptor

Adaptateur pour fraise à carotter pour unité de perçage électromagnétique



Fresa Cutter Fraise	Máquina Machine	Expulsor mm Pilot Pin Ejecteur	L mm	I mm	Nº Art.	€
Doble Weldon	Fein Quick In	6,35	51,20	28,60	61510	
Doble Weldon	Fein Quick In	7,98	51,20	28,60	61511	



Fresa Cutter Fraise	Máquina Machine	Expulsor mm Pilot Pin Ejecteur	L mm	I mm	Nº Art.	€
Doble Weldon	Universal	6,35	51,20	28,60	61512	
Doble Weldon	Universal	7,98	51,20	28,60	61513	



Entrada In Entrée	Salida Out Sortie	L mm	Nº Art.	€
Doble Weldon	1/2x20h	43	83450	



Entrada In Entrée	Salida Out Sortie	L mm	Nº Art.	€
Doble Weldon	B16	57	83449	





ELECCIÓN ADAPTADORES FRESAS HUECAS DOBLE WELDON

Double Weldon Core Drill Adaptor Choice

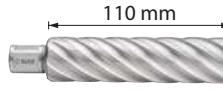
Choix d'adaptateurs pour fraises à carotter Double Weldon

Fresa Cutter Fraise	Ref. 4075	Ref. 4074	Ref. 4075
DOBLE WELDON	Expulsor sin Adaptador Pilot Pin without adapter Ejecteur sans adaptateur	Adaptador Máquina Adaptor Machine Adaptateur machine	* Expulsor para uso con adaptador * Pilot Pin when using with Adapter * Ejecteur pour usage avec adaptateur
		FEIN QUICK IN	
4078 35 mm	(12-17 mm) 6,34 x 90 mm. Art. 65905		(12-17 mm) * 6,34 x 116 mm. Art. 71750
4077 50 mm	(12-17 mm) 6,34 x 106 mm. Art. 61501		(12-17 mm) * 6,34 x 127 mm. Art. 71878
4070 30 mm	6,34 x 77 mm. Art. 61502	 Art. 61510	* 6,34 x 102 mm. Art. 61500
4071 50 mm	6,34 x 102 mm. Art. 61500		* 6,34 x 127 mm. Art. 71878
4078 35 mm	(18-60 mm) 7,98 x 90 mm. Art. 65907		(18-60 mm) * 7,98 x 118 mm. Art. 71880
4077 50 mm	(18-60 mm) 7,98 x 105 mm. Art. 61503	 Art. 61511	(18-60 mm) * 7,98 x 130 mm. Art. 71883
4072 110 mm	7,98 x 154 mm. Art. 61504		* 7,98 x 180 mm. Art. 71885

ELECCIÓN ADAPTADORES FRESAS HUECAS DOBLE WELDON

Double Weldon Core Drill Adaptor Choice

Choix d'adaptateurs pour fraises à carotter Double Weldon

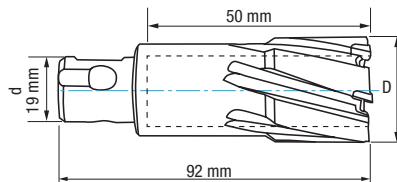
Fresa Cutter Fraise	Ref. 4075 Expulsor sin Adaptador Pilot Pin without adapter Ejecteur sans adaptateur	Ref. 4074 Adaptador Máquina Adaptor Machine Adaptateur machine UNIVERSAL Nitto + Weldon	Ref. 4075 * Expulsor para uso con adaptador * Pilot Pin when using with Adapter * Ejecteur pour usage avec adaptateur
DOBLE WELDON			
4078  35 mm	(12-17 mm) 6,34 x 90 mm. Art. 65905		
4077  50 mm	(12-17 mm) 6,34 x 106 mm. Art. 61501		
4070  30 mm	6,34 x 77 mm. Art. 61502	 Art. 61512	
4071  50 mm	6,34 x 102 mm. Art. 61500		* 6,34 x 127 mm. Art. 71878
4078  35 mm	(18-60 mm) 7,98 x 90 mm. Art. 65907		(18-60 mm) * 7,98 x 118 mm. Art. 71880
4077  50 mm	(18-60 mm) 7,98 x 105 mm. Art. 61503	 Art. 61513	(18-60 mm) * 7,98 x 130 mm. Art. 71883
4072  110 mm	7,98 x 154 mm. Art. 61504		* 7,98 x 180 mm. Art. 71885

Ref. 4067

FRESA HUECA MÁQUINAS ELECTROMAGNÉTICAS TCT LARGA

Long TCT Core Drill

Fraise à carotter pour unité de perçage électromagnétique TCT longue



**MD/HM
TCT**

**Serie Larga
Long Length
Série longue**

**Apto con Poca Lubricación
Suitable with Minimal Cooling
Apte avec lubrification minimale**

**UNIVERSAL:
NITTO +
WELDON**

**Aceros
<850 N/mm²
Steel / Aciers**

**INOX
Stainless Steel
Acier INOX**

**Fundición
Cast Iron
Fonte**

**Cobre
Copper
Cuivre**

**Latón
Brass
Laiton**

**Madera
Wood
Bois**

D mm	d mm	L mm	I mm	Nº Art.	€	D mm	d mm	L mm	I mm	Nº Art.	€	D mm	d mm	L mm	I mm	Nº Art.	€
14	19	92	50	61248		30	19	92	50	61264		46	19	92	50	61280	
15	19	92	50	61249		31	19	92	50	61265		47	19	92	50	61281	
16	19	92	50	61250		32	19	92	50	61266		48	19	92	50	61282	
17	19	92	50	61251		33	19	92	50	61267		49	19	92	50	61283	
18	19	92	50	61252		34	19	92	50	61268		50	19	92	50	61199	
19	19	92	50	61253		35	19	92	50	61269		51	19	92	50	61284	
20	19	92	50	61254		36	19	92	50	61270		52	19	92	50	61285	
21	19	92	50	61255		37	19	92	50	61271		53	19	92	50	61286	
22	19	92	50	61256		38	19	92	50	61272		54	19	92	50	61287	
23	19	92	50	61257		39	19	92	50	61273		55	19	92	50	61288	
24	19	92	50	61258		40	19	92	50	61274		56	19	92	50	61289	
25	19	92	50	61259		41	19	92	50	61275		57	19	92	50	61290	
26	19	92	50	61260		42	19	92	50	61276		58	19	92	50	61291	
27	19	92	50	61261		43	19	92	50	61277		59	19	92	50	61292	
28	19	92	50	61262		44	19	92	50	61278		60	19	92	50	61293	
29	19	92	50	61263		45	19	92	50	61279							

Línea 33 cm 4067

FRESA HUECA MÁQUINAS ELECTROMAGNÉTICAS TCT LARGA

Long TCT Core Drill

Fraise à carotter pour unité de perçage électromagnétique TCT longue



Ø	14	16	18	20	22
Pcs	2	2	2	2	2

Ref. 4995 - Nº Art. 72096: €

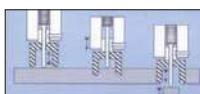
Ref. 4075

EXPULSORES

Pilot Pins
Ejecteurs



HSS



D mm	L mm	Cap. mm	Para/For/Pour Ref.	Nº Art.	€
6,34	106	12-17	4067 (50 mm)	61501	
7,98	105	18-60	4067 (50 mm)	61503	

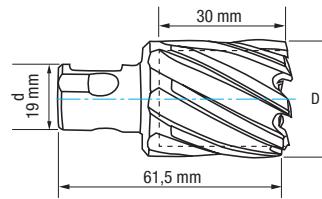


Ref. **4060**

FRESA HUECA MÁQUINAS ELECTROMAGNÉTICAS HSS CORTA

Short HSS Core Drill

Fraise à carotter pour unité de perçage électromagnétique HSS courte



HSS

Serie Corta
Jobber Series
Série courte

Aceros Construcción
Structural Steels
Aciers de construction

Apto con Poca Lubricación
Suitable with Minimal Cooling
Apté avec lubrification minimale

UNIVERSAL:
NITTO +
WELDON

Aceros
 $<850 \text{ N/mm}^2$
Steel / Aciers

Aceros
 $<1000 \text{ N/mm}^2$
Steel / Aciers

Fundición
Cast Iron
Fonte

Aluminio
Aluminium



D mm	d mm	L mm	I mm	Nº Art.	€	D mm	d mm	L mm	I mm	Nº Art.	€
12	19	61,5	30	61120		37	19	61,5	30	61145	
13	19	61,5	30	61121		38	19	61,5	30	61146	
14	19	61,5	30	61122		39	19	61,5	30	61147	
15	19	61,5	30	61123		40	19	61,5	30	61148	
16	19	61,5	30	61124		41	19	61,5	30	61149	
17	19	61,5	30	61125		42	19	61,5	30	61150	
18	19	61,5	30	61126		43	19	61,5	30	61151	
19	19	61,5	30	61127		44	19	61,5	30	61152	
20	19	61,5	30	61128		45	19	61,5	30	61153	
21	19	61,5	30	61129		46	19	61,5	30	61154	
22	19	61,5	30	61130		47	19	61,5	30	61155	
23	19	61,5	30	61131		48	19	61,5	30	61156	
24	19	61,5	30	61132		49	19	61,5	30	61157	
25	19	61,5	30	61133		50	19	61,5	30	61158	
26	19	61,5	30	61134		51	19	61,5	30	61159	
27	19	61,5	30	61135		52	19	61,5	30	61160	
28	19	61,5	30	61136		53	19	61,5	30	61161	
29	19	61,5	30	61137		54	19	61,5	30	61162	
30	19	61,5	30	61138		55	19	61,5	30	61163	
31	19	61,5	30	61139		56	19	61,5	30	61164	
32	19	61,5	30	61140		57	19	61,5	30	61165	
33	19	61,5	30	61141		58	19	61,5	30	61166	
34	19	61,5	30	61142		59	19	61,5	30	61167	
35	19	61,5	30	61143		60	19	61,5	30	61168	
36	19	61,5	30	61144							



Set 6 Pcs

Cont. Ø	Nº Art.	€
12-14- 16-18- 20-22	66860	



Set 5 Pcs

Cont. Ø	Nº Art.	€
24-26- 28-30- 32	66861	

Línea 33 cm
4060

FRESA HUECA MÁQUINAS ELECTROMAGNÉTICAS HSS CORTA

Short HSS Core Drill

Fraise à carotter pour unité de perçage électromagnétique HSS courte



Ø	14	16	18	20	22
Pcs	2	2	2	2	2

Ref. 4995 - Nº Art. 72099: €

Ref. **4075**

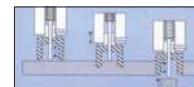
EXPULSORES

Pilot Pins

Ejecteurs



HSS



D mm	L mm	Para/For/Pour Ref.	Nº Art.	€
6,34	77	4060 (30 mm)	61502	

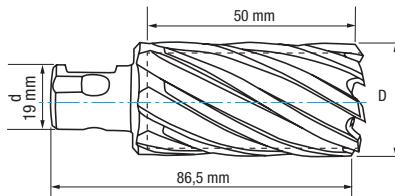


Ref. 4061

FRESA HUECA MÁQUINAS ELECTROMAGNÉTICAS HSS LARGA

Long HSS Core Drill

Fraise à carotter pour unité de perçage électromagnétique HSS longue



HSS

Serie Larga
Long Length
Série longue

Aceros Construcción
Structural Steels
Aciers de construction

Apto con Poca Lubricación
Suitable with Minimal Cooling
Apte avec lubrification minimale

Rectificado
Ground
Taillé meulé

UNIVERSAL:
NITTO +
WELDON

Aceros
<850 N/mm²
Steel / Aciers

Aceros
<1000 N/mm²
Steel / Aciers

Fundición
Cast Iron
Fonte

Aluminio
Aluminium



D mm	d mm	L mm	I mm	Nº Art.	€	D mm	d mm	L mm	I mm	Nº Art.	€	D mm	d mm	L mm	I mm	Nº Art.	€
12	19	86,5	50	73340		28	19	86,5	50	61183		45	19	86,5	50	61201	
13	19	86,5	50	73342		29	19	86,5	50	61184		46	19	86,5	50	61202	
14	19	86,5	50	61169		30	19	86,5	50	61185		47	19	86,5	50	61203	
15	19	86,5	50	61170		31	19	86,5	50	61186		48	19	86,5	50	61204	
16	19	86,5	50	61171		32	19	86,5	50	61187		49	19	86,5	50	61205	
17	19	86,5	50	61172		33	19	86,5	50	61188		50	19	86,5	50	61206	
18	19	86,5	50	61173		34	19	86,5	50	61189		51	19	86,5	50	61207	
19	19	86,5	50	61174		35	19	86,5	50	61190		52	19	86,5	50	61208	
20	19	86,5	50	61175		36	19	86,5	50	61191		53	19	86,5	50	61209	
21	19	86,5	50	61176		37	19	86,5	50	61192		54	19	86,5	50	61210	
22	19	86,5	50	61177		38	19	86,5	50	61193		55	19	86,5	50	61211	
23	19	86,5	50	61178		39	19	86,5	50	61194		56	19	86,5	50	61212	
24	19	86,5	50	61179		40	19	86,5	50	61195		57	19	86,5	50	61213	
25	19	86,5	50	61180		41	19	86,5	50	61196		58	19	86,5	50	61214	
26	19	86,5	50	61181		42	19	86,5	50	61197		59	19	86,5	50	61215	
27	19	86,5	50	61182		43	19	86,5	50	61198		60	19	86,5	50	61216	
						44	19	86,5	50	61200							

Línea 33 cm
4061

FRESA HUECA MÁQUINAS ELECTROMAGNÉTICAS HSS LARGA

Long HSS Core Drill

Fraise à carotter pour unité de perçage électromagnétique HSS longue



Ø	14	16	18	20	22
Pcs	2	2	2	2	2

Ref. 4995 - Nº Art. 72105: €

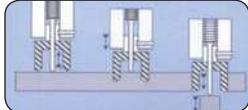
Ref. 4075

EXPULSORES

Pilot Pins
Ejecteurs



HSS



D mm	L mm	Para/For/Pour Ref.	Nº Art.	€
6,34	102	4061 (50 mm)	61500	

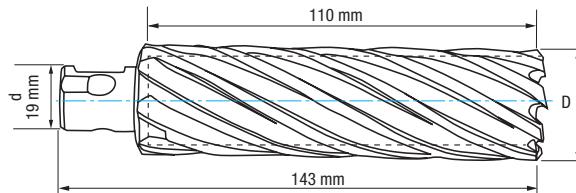


Ref. **4062**

FRESA HUECA MÁQUINAS ELECTROMAGNÉTICAS HSS EXTRA LARGA

Extra Long HSS Core Drill

Fraise à carotter pour unité de perçage électromagnétique HSS extra-longue



HSS

Serie Extra-Larga
Extra-Long Series
Série extra-longue

Aceros Construcción
Structural Steels
Aciers de construction

Apto con Poca Lubricación
Suitable with Minimal Cooling
Apte avec lubrification minimale

UNIVERSAL:
NITTO +
WELDON

Aceros
<850 N/mm²
Steel / Aciers

Aceros
<1000 N/mm²
Steel / Aciers

Fundición
Cast Iron
Fonte

Aluminio
Aluminium



D mm	d mm	L mm	I mm	Nº Art.	€
20	19	143	110	61217	
21	19	143	110	61218	
22	19	143	110	61219	
23	19	143	110	61220	
24	19	143	110	61221	
25	19	143	110	61222	
26	19	143	110	61223	
27	19	143	110	61224	
28	19	143	110	61225	
29	19	143	110	61226	
30	19	143	110	61227	

D mm	d mm	L mm	I mm	Nº Art.	€
31	19	143	110	61228	
32	19	143	110	61229	
33	19	143	110	61230	
34	19	143	110	61231	
35	19	143	110	61232	
36	19	143	110	61233	
37	19	143	110	61234	
38	19	143	110	61235	
39	19	143	110	61236	
40	19	143	110	61237	
41	19	143	110	61238	

D mm	d mm	L mm	I mm	Nº Art.	€
42	19	143	110	61239	
43	19	143	110	61240	
44	19	143	110	61241	
45	19	143	110	61242	
46	19	143	110	61243	
47	19	143	110	61244	
48	19	143	110	61245	
49	19	143	110	61246	
50	19	143	110	61247	

Línea 33 cm

4062

FRESA HUECA MÁQUINAS ELECTROMAGNÉTICAS HSS EXTRA LARGA

Extra Long HSS Core Drill

Fraise à carotter pour unité de perçage électromagnétique HSS extra-longue



Ø	20	22	26	32	40
Pcs	1	1	1	1	1

Ref. 4995 - Nº Art. 72108: €

Ref. **4075**

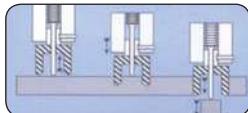
EXPULSORES

Pilot Pins

Ejecteurs



HSS



D mm	L mm	Para/For/Pour Ref.	Nº Art.	€
7,98	154	4062 (110 mm)	61504	



CORONAS

Hole Saws

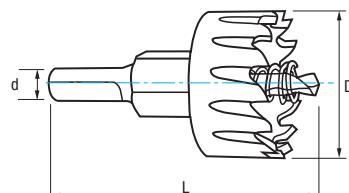
Trépans

Ref. **1667**

CORONA REAFILABLE HSS

HSS Resharpenable Hole Saw

Fraise réaffûtable HSS



HSS



Aceros
<850 N/mm²
Steel / Aciers

Fundición
Cast Iron
Fonte

Cobre
Copper
Cuivre

Latón
Brass
Laiton

Aluminio
Aluminium

Madera
Wood
Bois

D mm	d mm	L mm	D mm Broca Drill Bit Foret	Nº Art.	€
12	10	75,50	6	56569	
13	10	75,50	6	56570	
14	10	75,50	6	56572	
15	10	75,50	6	56573	
16	10	75,50	6	56152	
17	10	75,50	6	56576	
18	10	75,50	6	56578	
19	10	75,50	6	56579	
20	10	75,50	6	56154	
21	10	75,50	6	56582	
22	10	75,50	6	56155	
23	10	75,50	6	56583	
24	10	75,50	6	56584	
25	10	75,50	6	56156	
26	10	75,50	6	56585	
27	10	75,50	6	56157	
28	10	75,50	6	56587	
29	10	75,50	6	56588	
30	10	75,50	6	56158	
32	10	75,50	6	56159	

D mm	d mm	L mm	D mm Broca Drill Bit Foret	Nº Art.	€
33	10	75,50	6	56590	
35	10	75,50	6	56160	
36	10	75,50	6	56591	
38	10	75,50	6	56593	
39	10	75,50	6	56594	
40	10	75,50	6	56161	
42	10	75,50	6	56596	
45	10	75,50	6	56597	
48	10	75,50	6	56163	
49	10	75,50	6	68602	
50	10	75,50	6	56164	
51	10	75,50	6	68604	
53	10	75,50	6	56599	
55	10	75,50	6	56600	
60	10	75,50	6	56165	
63	10	75,50	6	68605	
65	10	75,50	6	56602	
68	10	75,50	6	68607	
70	10	75,50	6	56166	
75	10	75,50	6	56167	

D mm	d mm	L mm	D mm Broca Drill Bit Foret	Nº Art.	€
76	10	75,50	6	68608	
80	10	75,50	6	56603	
85	10	75,50	6	56605	
90	10	75,50	6	56606	
100	10	75,50	6	56608	



Set 6 Pcs

Cont. Ø	Nº Art.	€
12-14- 16-18- 20-22	77448	

TIN

Bajo demanda / upon request / sur demande

Ref. **1664**



Broca / Drill Bit / Foret

D mm	L mm	Nº Art.	€ 1 ud.
6	48	60704	



Muelle / Spring / Ressort

D mm	L mm	Fig. cube	Nº Art.	€ pack
8,5	20	10	60637	
8,5	35	10	60638	

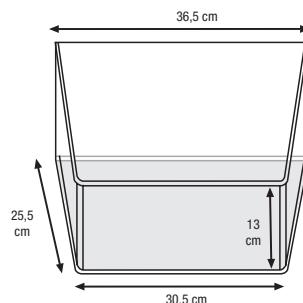


Expo 1667

EXPOSITOR CORONAS REAFILABLES HSS

HSS Resharpenable Hole Saw Exhibitor

Présentoir fraises réaffûtables HSS



31 Pcs

Nº Art. €
66804

Diam.	Nº Art.	Uds.	Diam.	Nº Art.	Uds.
12	56569	1	28	56587	1
13	56570	1	29	56588	1
14	56572	1	30	56158	1
15	56573	1	32	56159	1
16	56152	1	33	56590	1
17	56576	1	35	56160	1
18	56578	1	36	56591	1
19	56579	1	38	56593	1
20	56154	1	39	56594	1
21	56582	1	40	56161	1
22	56155	1	42	56596	1
23	56583	1	45	56597	1
24	56584	1	48	56163	1
25	56156	1	50	56164	1
26	56585	1	65	56602	1
27	56157	1			

Línea 1m 1667

CORONA REAFILABLE HSS

HSS Resharpenable Hole Saw

Fraise réaffûtable HSS



Ø	16	19	20	22	24	25	27	29	30	32	35	51	63	65
Pcs	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Ref. 4995 - Nº Art. 72109: €

Display 65

CORONA REAFILABLE HSS

HSS Resharpenable Hole Saw

Fraise réaffûtables HSS



Ø	16	18	20	22	24	25	27	32
Pcs	1	1	1	1	1	1	1	1

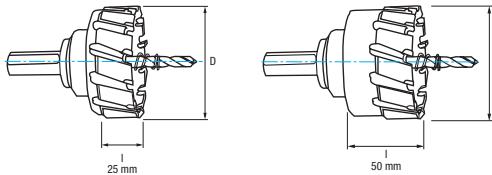
Ref. 4995 - Nº Art. 70083: €

Ref. **1663**

CORONA INOX ALTO RENDIMIENTO

TCT High Performance STAINLESS Hole Saw

Trépan INOX haut rendement



Husillo incluido
Included Spindle
Arbre compris



Broca incluida
Included Center Drill
Foret compris

Cono Morse opcional
Optional Morse Taper
Cône Morse optionel



Diente MD
Carbide Tipped
Dent carbure

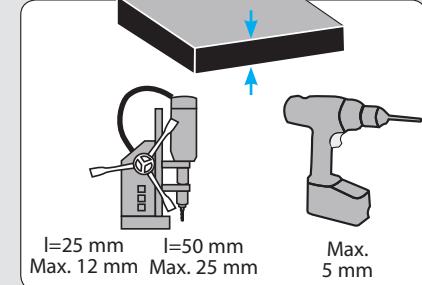
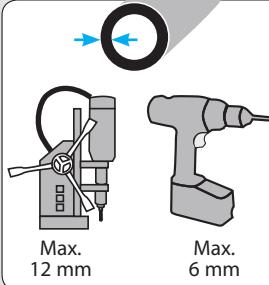
PVC

Fibra Vidrio
Fiberglass
Fibre de verre

Aceros
<850 N/mm²
Steel / Aciers

Plásticos
Plastics
Plastiques

INOX
Stainless Steel
Acier INOX



D mm	I mm	d mm	Nº Art.	€
14	25	13	71756	
15	25	13	71758	
16	25	13	71760	
17	25	13	71761	
18	25	13	71762	
19	25	13	71763	
20	25	13	71764	
21	25	13	71765	
22	25	13	71768	
23	25	13	71769	
24	25	13	71770	
25	25	13	71771	
26	25	13	71772	
27	25	13	71773	
28	25	13	71774	
29	25	13	71775	
30	25	13	71776	
31	25	13	71777	
32	25	13	71780	
33	25	13	71781	
34	25	13	71782	
35	25	13	71783	
36	25	13	71784	
37	25	13	71785	

D mm	I mm	d mm	Nº Art.	€
38	25	13	71787	
39	25	13	71788	
40	25	13	71789	
41	25	13	71790	
42	25	13	71791	
43	25	13	71792	
44	25	13	71793	
45	25	13	71794	
46	25	13	71795	
47	25	13	71796	
48	25	13	71797	
49	25	13	71798	
50	25	13	71799	
51	25	13	71800	
52	25	13	71801	
53	25	13	71802	
54	25	13	71803	
55	25	13	71804	
56	25	13	71805	
57	25	13	71806	
58	25	13	71807	
59	25	13	71808	
60	25	13	71809	

D mm	I mm	d mm	Nº Art.	€
18	50	13	71952	
20	50	13	71953	
22	50	13	71955	
25	50	13	71956	
30	50	13	71957	
35	50	13	71958	
40	50	13	71959	
45	50	13	71960	
50	50	13	71961	
55	50	13	71962	
60	50	13	71963	
65	50	13	71980	
68	50	13	71964	
70	50	13	71811	
75	50	13	71812	
80	50	13	71814	
85	50	13	71815	
90	50	13	71817	
95	50	13	71818	
100	50	13	71819	
105	50	13	71965	
110	50	13	71966	
115	50	13	71967	
120	50	13	71968	
125	50	13	71970	

Ref. **1659**

ACCESORIOS / Accessories / Accessoires

Broca Centrar *

Center Drill / Foret à centrer



Para Corona For Hole Saw Pour Trépan	Cap. mm	D mm	L mm	I mm	Nº Art.	€
1 mm						
25	14-60	6	80	30	71982	
25	61-125	8	80	30	71983	
50	14-60	6	110	55	71985	
50	61-125	8	110	55	71986	

* Repuesto incluido / Included Spare / Recharge compris

Husillo 3 Planos *

3-Flat Spindle / Arbre 3 plans



Cap. mm	L mm	Nº Art.	€
14-60	53	71977	
61-100	53	71979	
101-125	57	71980	

Cono Morse **

Morse Taper / Cône Morse



CM	Cap. mm	L mm	Nº Art.	€
2	16-100	108,5	71988	
3	101-125	133	71989	

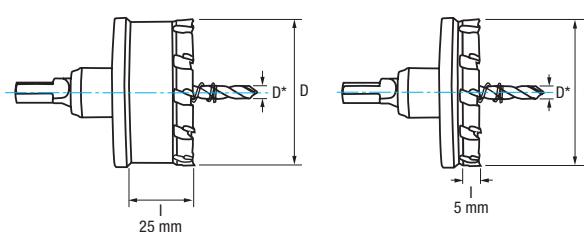
** Accesorio opcional

Optional Accessory / Accessoire optionnel



Ref. 1665

CORONA INOX

TCT STAINLESS Hole Saw
Trépan INOXDiente MD
Carbide Tipped
Dent carbure

PVC

Fibra Vidrio
Fiberglass
Fibre de verreI=25 mm
Max. 5 mmI=5 mm
Max. 5 mmAceros
<850 N/mm²
Steel / AciersINOX
Stainless Steel
Acier INOXPlásticos
Plastics
Plastiques

D mm	I mm	Pulgadas Inches Pouces	D* mm Broca Drill Bit	Nº Art.	€
16	25	5/8	6	60642	
17	25	11/16	6	60643	
18	25	23/32	6	13796	
19	25	3/4	6	60645	
20	25	25/32	6	13798	
21	25	13/16	6	13799	
22	25	7/8	6	13800	
23	25	14/16	6	13801	
24	25	15/16	6	13802	
25	25	1	6	13803	
26	25	1 1/32	6	13804	
27	25	1 1/16	6	13805	
28	25	1 3/32	6	13806	
29	25	1 1/8	6	13807	
30	25	1 3/16	6	13808	
31	25	1 7/32	6	13809	
32	25	1 1/4	6	13810	
33	25	1 5/16	6	13811	
34	25	1 11/32	6	13812	
35	25	1 3/8	6	13813	
36	25	1 13/32	6	60646	
37	25	1 7/16	6	60647	
38	25	1 1/2	6	13816	
39	25	1 17/32	6	60648	
40	25	1 9/16	6	13818	
41	25	1 5/8	6	60649	
42	25	1 21/32	6	13820	
43	25	1 11/16	6	60652	
44	25	1 3/4	6	60650	
45	25	1 25/32	6	13823	
50	25		6	13828	
52	25	2 1/16	6	13830	
53	25	2 3/32	6	13831	
55	25		6	13833	
60	25	2 3/8	6	13838	
63	25		6	13841	
65	25	2 9/16	6	60651	
70	25	2 3/4	6	60653	
75	25		6	60654	
80	25		6	60655	
85	25		6	60656	
90	25		6	60657	
95	25	3 3/4	6	60658	
100	25	3 15/16	6	60659	

D mm	I mm	Pulgadas Inches Pouces	D* mm Broca Drill Bit	Nº Art.	€
14	5	9/16	6	60660	
16	5	5/8	6	60661	
18	5	23/32	6	60662	
20	5	25/32	6	60663	
22	5	7/8	6	60664	
25	5	1	6	60666	
30	5	1 3/16	6	60667	
32	5	1 1/4	6	60668	
35	5	1 3/8	6	60669	
40	5	1 9/16	6	60670	
45	5	1 25/32	6	60671	
50	5		6	60672	
60	5	2 3/8	6	60673	

Ref. 1664



Broca / Drill Bit / Foret

Muelle / Spring / Ressort

D mm	L mm	Nº Art.	€ 1 ud.
6	48	60704	
6	76	60636	

D mm	L mm	Nº Art.	€ pack
8,5	20	10	60637
8,5	35	10	60638

Display
66

CORONAS INOX

TCT STAINLESS Hole Saws
Trépans INOX

Ø	16	18	20	22	24	25	27	32
Pcs	1	1	1	1	1	1	1	1

Ref. 4995 - Nº Art. 71094: €

Ref. **1636**

PERFORADOR DE CHAPA

Screw Hole Punch
Perforateur de tôle

New!



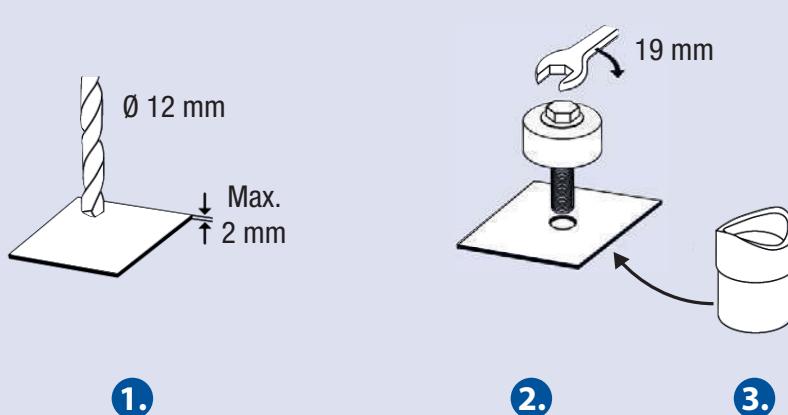
HSS

Chapa
Sheets
Tôle

Aceros
<850 N/mm²
Steel / Aciers

INOX
Stainless Steel
Acier INOX

D mm	D mm Broca Drill Bit - Foret	Nº Art.	€
32,50	12,00	13671	
35,00	12,00	13676	



INSTRUCCIONES USO:

1. Taladrar un agujero previo con la broca
2. Introducir el tornillo por el agujero y por el lado contrario enroscar la cuchilla
3. Aplicar un par de apriete hasta seccionar la chapa

DIRECTIONS FOR USE:

1. Drill a pilot hole with the drill bit
2. Insert the screw through the hole and, on the opposite side, screw the blade
3. Apply a tightening torque until the sheet is divided

INSTRUCTIONS D'EMPLOI:

1. Percez un trou de guidage avec le foret
2. Insérez la vis dans le trou et, du côté opposé, vissez la lame
3. Appliquez un couple de serrage jusqu'à ce que la tôle soit divisée



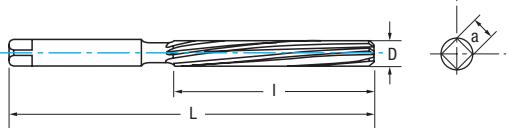
ESCARIADORES

Reamers
Alésoirs

Ref. **2010**

ESCARIAJOR MANO

Hand Reamer
Alésoir à main



HSS

DIN
206 B

ISO
236

Tol.
H7

Aceros
<850 N/mm²
Steel / Aciers

Aluminio
Aluminium

	D mm	L mm	I mm	a mm	Nº Art.	€		D mm	L mm	I mm	a mm	Nº Art.	€		D mm	L mm	I mm	a mm	Nº Art.	€
(New!) 1,00	37	12			30685			5,80	93	47	4,30	74274			10,20	133	66	8,00	74370	
(New!) 1,50	41	20	1,12		30689			5,90	93	47	4,30	74277			10,30	133	66	8,00	74373	
1,60	44	21	1,25		74178			6,00	93	47	4,30	40403			10,50	133	66	8,00	40430	
1,70	44	21	1,25		74181			6,10	100	50	4,90	74280			10,60	142	71	8,00	74379	
1,80	47	23	1,40		74184			6,20	100	50	4,90	75172			10,70	142	71	9,00	74382	
1,90	50	25	1,60		74187			6,30	100	50	4,90	74283			10,80	142	71	9,00	74385	
2,00	50	25	1,60		40379			6,40	100	50	4,90	74286			11,00	142	71	9,00	40433	
2,10	50	25	1,60		74190			6,50	100	50	4,90	40406			11,10	142	71	9,00	74391	
2,20	54	27	1,80		74193			6,60	100	50	4,90	75233			11,20	142	71	9,00	74394	
2,40	58	29	2,10		74199			6,70	100	50	4,90	74289			11,30	142	71	9,00	74397	
2,50	58	29	2,10		40382			6,80	107	54	5,50	74292			11,40	142	71	9,00	74400	
2,60	58	29	2,10		75397			6,90	107	54	5,50	74295			11,50	142	71	9,00	40436	
2,70	62	31	2,10		74202			7,00	107	54	5,50	40409			11,60	142	71	9,00	74403	
(New!) 2,90	62	31	2,10		74208			7,10	107	54	5,50	74298			11,70	142	71	9,00	74406	
2,80	62	31	2,10		74205			7,20	107	54	5,50	74301			11,80	152	76	9,00	74409	
3,00	62	31	2,10		40385			7,30	107	54	5,50	74947			11,90	152	76	10,00	74412	
3,10	66	33	2,40		74211		(New!)	7,40	107	54	5,50	74304			12,00	152	76	10,00	40439	
3,20	66	33	2,40		74214			7,50	107	54	5,50	40412			12,50	152	76	10,00	40442	
3,30	66	33	2,40		74217			7,60	115	58	6,20	74307			13,00	152	76	10,00	40445	
3,40	71	35	2,70		74220			7,80	115	58	6,20	74313			13,50	163	81	11,00	40448	
3,50	71	35	2,70		40388			7,90	115	58	6,20	74316			14,00	163	81	11,00	40451	
3,60	71	35	2,70		74223			8,00	115	58	6,20	40415			14,50	163	81	11,00	40454	
3,70	71	35	2,70		74226			8,10	115	58	6,20	74319			15,00	163	81	11,00	40457	
3,80	76	38	3,00		75398			8,20	115	58	6,20	74322			15,50	175	87	12,00	40460	
3,90	76	38	3,00		74229			8,30	115	58	6,20	74325			16,00	175	87	12,00	40463	
4,00	76	38	3,00		40391			8,50	115	58	6,20	40418			16,50	175	87	12,00	40466	
4,10	76	38	3,00		74232			8,60	124	62	7,00	74331			17,00	175	87	12,00	40469	
4,20	76	38	3,00		74235			8,80	124	62	7,00	74337			17,50	188	93	14,50	40472	
4,30	81	41	3,40		74238			8,90	124	62	7,00	74340			18,00	188	93	14,50	40475	
4,40	81	41	3,40		74241			9,00	124	62	7,00	40421			18,50	188	93	14,50	40478	
4,50	81	41	3,40		40394			9,10	124	62	7,00	74343			19,00	188	93	14,50	40481	
4,70	81	41	3,40		74247			9,20	124	62	7,00	74346			20,00	201	100	16,00	40487	
4,80	87	44	3,80		74250			9,30	124	62	7,00	74349			21,00	201	100	16,00	40493	
4,90	87	44	3,80		74253			9,40	124	62	7,00	74352			22,00	215	107	18,00	40499	
5,00	87	44	3,80		40397			9,50	124	62	7,00	40424			23,00	215	107	18,00	40505	
5,10	87	44	3,80		74256			9,60	133	66	8,00	74355			24,00	231	115	20,00	40511	
5,20	87	44	3,80		74259			9,70	133	66	8,00	74358			25,00	231	115	20,00	40517	
5,30	87	44	3,80		74262			9,80	133	66	8,00	74361			26,00	231	115	20,00	40523	
5,40	93	47	4,30		74265			9,90	133	66	8,00	74364			27,00	247	124	22,40	40529	
5,50	93	47	4,30		40400			10,00	133	66	8,00	40427			28,00	247	124	22,40	40535	
5,60	93	47	4,30		74268			10,10	133	66	8,00	74367			30,00	247	124	22,40	40547	
5,70	93	47	4,30		74271															

Ref. **2015**

ESCARIADOR MANO EXTENSIBLE REFORZADO

Reinforced Rapidly Adjustable Hand Reamer

Alésoir à lames réglables renforcée



Cap. mm	L mm	I mm	Z	Nº Art.	€
06,40-07,20	85	34	4	21076	
07,20-08,00	90	35	4	21077	
08,00-09,00	100	39	5	21079	
09,00-10,00	120	45	5	21080	
10,00-11,00	125	45	5	21081	
11,00-12,00	130	46	5	21082	
12,00-13,50	135	48	5	21084	
13,50-15,50	140	58	5	21085	
15,50-18,00	165	69	5	21086	
18,00-21,00	185	75	5	21087	

Cap. mm	L mm	I mm	Z	Nº Art.	€
21,00-24,00	195	80	5	21088	
24,00-27,50	215	90	6	21089	
27,50-31,50	240	100	6	21090	
31,50-37,00	265	110	6	21091	
37,00-45,00	310	130	6	21092	
45,00-55,00	380	145	6	21093	
55,00-67,00	152	440	6	21094	

Ref. **2016**

ESCARIADOR MANO EXTENSIBLE CON GUÍA

Guided Rapidly Adjustable Hand Reamer

Alésoir à lames réglables avec guide



Cap. mm	L mm	I mm	Z	Nº Art.	€
08,00-09,00	175	39	5	21346	
09,00-10,00	185	39	5	21347	
10,00-11,00	195	45	5	21348	
11,00-12,00	200	45	5	21350	
12,00-13,50	220	48	5	21351	
13,50-15,50	243	58	5	21352	
15,50-18,00	274	69	5	21353	
18,00-21,00	300	75	5	21354	

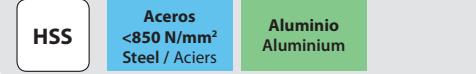
Cap. mm	L mm	I mm	Z	Nº Art.	€
21,00-24,00	320	80	6	21355	
24,00-27,50	350	90	6	21356	
27,50-31,50	385	100	6	21357	
31,50-37,00	424	110	6	21358	
37,00-45,00	490	130	6	21360	
45,00-55,00	600	145	6	21363	

Ref. **2017**

CUCHILLA ESCARIADOR MANO EXTENSIBLE

Adjustable Hand Reamer Blade

Lame pour alésoir réglable à main



Cap. mm	L mm	C	Nº Art.	€ pack
06,40-07,20	34,00	4	49927	
07,20-08,00	35,00	4	49928	
08,00-09,00	39,00	5	49929	
09,00-10,00	44,50	5	49930	
10,00-11,00	45,00	5	49931	
11,00-12,00	46,50	5	49932	
12,00-13,50	48,00	5	26516	
13,50-15,50	54,00	5	49933	
15,50-18,00	69,00	5	43410	

Cap. mm	L mm	C	Nº Art.	€ pack
18,00-21,00	75,00	5	19594	
21,00-24,00	80,00	5	49934	
24,00-27,50	90,00	6	22499	
27,50-31,50	100,00	6	22500	
31,50-37,00	110,00	6	49935	
37,00-45,00	130,00	6	28820	
45,00-55,00	145,00	6	49936	
55,00-67,00	174,00	6	51333	

AVELLANADORES

Countersinks / Counterbores

Outils

Ref. **2575**

AVELLANADOR MANGO CILÍNDRICO 90°

90° Straight Shank Countersink

Fraise à noyer 90°



**HSSE
5% Co**

DIN
335 C



3 Z

Tol. D
(±0,05)

Tol.
d (h9)

Tol.
L (± 1)

Tol. α
 ${}^0_{-1}$

**Aceros
<850 N/mm²
Steel / Aciers**

**INOX
Stainless Steel
Acier INOX**

**Cobre
Copper
Cuivre**

**Aluminio
Aluminium**

**Termoplásticos
Thermoplastics
Thermoplastiques**



D+ mm	D- mm	d mm	L mm	Nº Art.	€
4,30	1,30	4,00	40	74653	
5,00	1,50	4,00	40	74654	
5,30	1,50	4,00	40	74655	
5,80	1,50	5,00	45	74656	
6,00	1,50	5,00	45	74657	
6,30	1,50	5,00	45	74658	
7,00	1,80	6,00	50	74659	
7,30	1,80	6,00	50	74660	
8,00	2,00	6,00	50	74661	
8,30	2,00	6,00	50	74662	
9,40	2,20	6,00	50	74663	
10,00	2,50	6,00	50	74664	
10,40	2,50	6,00	50	74665	
11,50	2,80	8,00	56	74666	
12,40	2,80	8,00	56	74667	
13,40	2,90	8,00	56	74668	
15,00	3,20	10,00	60	74669	
16,50	3,20	10,00	60	74670	
19,00	3,50	10,00	63	74671	
20,50	3,50	10,00	63	74672	
23,00	3,80	10,00	67	74673	
25,00	3,80	10,00	67	74674	
28,00	4,00	12,00	71	42714	
30,00	4,20	12,00	71	12588	
31,00	4,20	12,00	71	42715	
40,00	5,00	15,00	80	11061	



Set 6 Pcs

Cont. Ø	Nº Art.	€
6,3-8,3-10,4- 12,4-16,5-20,5	40515	

Recubrimiento bajo demanda / Coating upon request / Revêtement sur demande

**Línea 33 cm
2575**

AVELLANADOR MANGO CILÍNDRICO 90°

90° Straight Shank Countersink

Fraise à noyer 90°



ø	5	6	7	10	12,4	15
Pcs	2	2	2	2	2	2

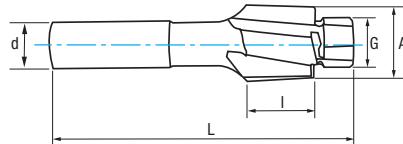
Ref. 4995 - Nº Art. 70987: €

Ref. **2530**

AVELLANADOR MANGO CILÍNDRICO ALLEN

Allen Straight Shank Counterbor

Fraise à lamer et chambrer



HSS

DIN
373

ISO
4206

Allen



Tol. A
z9

Tol. G
e8

Tol. d
h9

Aluminio
Aluminium
>10% Si

Aceros
<850 N/mm²
Steel / Aciers

Aceros
<1000 N/mm²
Steel / Aciers

INOX Ferríticos-Martensíticos
Ferritic-Martensitic Stainless
INOX Ferritiques-Martensitiques

Fundición
Cast Iron
Fonte

Titanio
Titanium
Titane

Cobre
Copper
Cuivre



M	A mm	G mm	d mm	L mm	I mm	Z	Nº Art.	€
M3	6,50	3,40	5,00	71	14	3	42029	
M4	8,00	4,50	5,00	71	14	3	42032	
M5	10,00	5,50	8,00	80	18	3	42035	
M6	11,00	6,60	8,00	80	18	3	42038	
M8	15,00	9,00	12,50	100	22	3	42041	
M10	18,00	11,00	12,50	100	22	3	42044	
M12	20,00	13,50	12,50	100	22	3	42047	
M14	24,00	15,50	16,00	100	22	4	42050	
M16	26,00	17,50	16,00	100	22	4	42053	



Set 6 Pcs

Cont.	Nº Art.	€
M3-M4-M5-M6-M8-M10	40512	

Línea 33 cm
2530

AVELLANADOR MANGO CILÍNDRICO ALLEN

Allen Straight Shank Counterbor

Fraise à lamer et chambrer



Ø	M5	M6	M8	M10	M12
Pcs	1	1	1	1	1

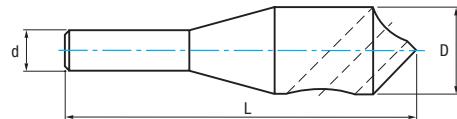
Ref. 4995 - Nº Art. 72112: €

Ref. **2572**

AVELLANADOR MANGO CILÍNDRICO 90°

90° Straight Shank Counterbor

Fraise à ebavurer 90°



**HSSE
5% Co**

IZAR
Std.



Tol.
D +0
+0,3

Tol.
d (h9)

Tol.
L (± 1)

Tol. α 0
-1

Aceros
<850 N/mm²
Steel / Aciers

INOX Ferríticos-Martensíticos
Ferritic-Martensitic Stainless
INOX Ferritiques-Martensitiques

Aluminio
Aluminium



Aplic. mm	D mm	d mm	L mm	Nº Art.	€
2-5	10,00	6,00	46	69183	
5-10	14,00	8,00	55	69181	
10-15	20,00	10,00	65	69184	
15-20	28,00	12,00	85	69187	
20-25	30,00	15,00	95	69186	



Set 4 Pcs

Aplic. mm	Nº Art.	€
2-5, 5-10, 10-15, 15, 15-20	40513	

Línea 33 cm
2572

AVELLANADOR MANGO CILÍNDRICO 90°

90° Straight Shank Counterbor

Fraise à ebavurer 90°



19
cm

Ø	2-5	5-10	10-15	15-20	20-25
Pcs	1	1	1	1	1

Ref. 4995 - Nº Art. 72115: €

MACHOS Y COJINETES

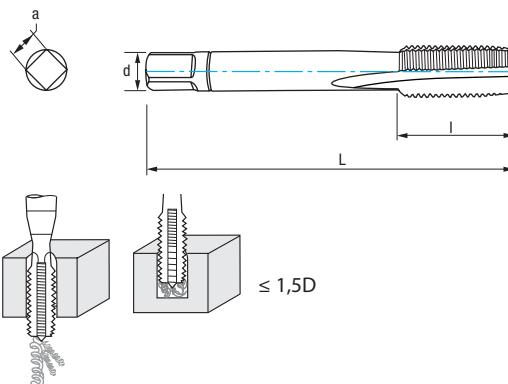
Taps & Dies
Tarauds et Filières

Ref. **3030**

JUEGO MACHOS MANO MÉTRICA

Metric Hand Tap Set

Jeu de tarauds à main métrique



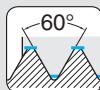
HSS

DIN
352

Tol.
6H



α
 $10^\circ \pm 2$



Aceros
<850 N/mm²
Steel / Aciers

Fundición
Cast Iron
Fonte

Cobre
Copper
Cuivre

Aluminio
Aluminium



M	P	L mm	I mm	d mm	a mm	z	Nº Art.	€
M2	0,40	36	8	2,80	2,10	3	62531	
M2,5	0,45	40	9	2,80	2,10	3	62534	
M3	0,50	40	11	3,50	2,70	3	62537	
M3,5	0,60	45	13	4,00	3,00	3	62540	
M4	0,70	45	13	4,50	3,40	3	62543	
M4	0,75	45	14	4,50	3,40	3	76377	
M4,5	0,75	50	16	6,00	4,90	3	62546	
M5	0,80	50	16	6,00	4,90	3	62549	
M6	1,00	56	19	6,00	4,90	3	62552	
M7	1,00	56	19	6,00	4,90	3	62555	
M8	1,25	56	22	6,00	4,90	4	62561	
M9	1,25	63	22	7,00	5,50	4	62567	
M10	1,50	70	24	7,00	5,50	4	62573	
M11	1,50	70	24	8,00	6,20	4	62576	
M12	1,75	75	28	9,00	7,00	4	62579	
M13	1,75	75	28	9,00	7,00	4	62582	
M14	2,00	80	30	11,00	9,00	4	62585	

M	P	L mm	I mm	d mm	a mm	z	Nº Art.	€
M15	2,00	80	32	12,00	9,00	4	62588	
M16	2,00	80	32	12,00	9,00	4	62591	
M18	2,50	95	34	14,00	11,00	4	62594	
M20	2,50	95	34	16,00	12,00	4	62597	
M22	2,50	100	34	18,00	14,50	4	62603	
M24	3,00	110	38	18,00	14,50	4	62606	
M27	3,00	110	38	20,00	16,00	4	62609	
M30	3,50	125	45	22,00	18,00	4	62612	
M33	3,50	125	50	25,00	20,00	4	62615	
M36	4,00	150	56	28,00	22,00	4	62618	
M39	4,00	150	60	32,00	24,00	4	62621	
M42	4,50	150	60	32,00	24,00	4	62624	
M45	4,50	160	65	36,00	29,00	6	73760	
M48	5,00	180	70	36,00	29,00	6	62627	
M52	5,00	180	70	40,00	32,00	6	76382	
M56	5,50	180	70	40,00	32,00	6	76383	
M60	5,50	200	85	45,00	35,00	6	76384	

Macho único Ref. 3010 disponible en pag. 128

Single Tap Ref. 3010 available in page 128

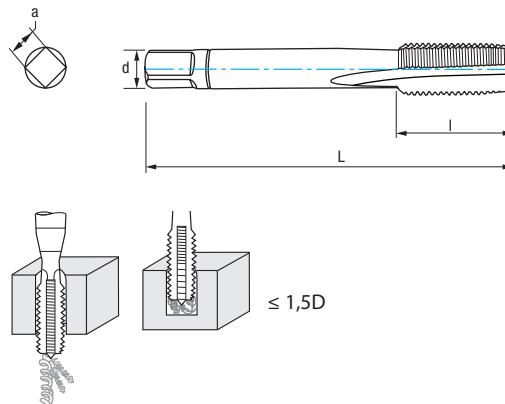
Taraud unique Ref. 3010 disponible pag. 128

Ref. 3003

JUEGO MACHOS MANO MÉTRICA

Metric Hand Tap Set

Jeu de tarauds à main métrique



HSS

DIN
352

Tol.
6H



Aceros
<850 N/mm²
Steel / Aciers

Fundición
Cast Iron
Fonte

Cobre
Copper
Cuivre

Aluminio
Aluminium



M	P	L mm	I mm	d mm	a mm	Z	Nº Art.	€
M3	0,50	40	11	3,50	2,70	3	42876	
M4	0,70	45	13	4,50	3,40	3	42879	
M5	0,80	50	16	6,00	4,90	3	42882	
M6	1,00	56	19	6,00	4,90	3	42884	
M7	1,00	56	19	6,00	4,90	3	42885	
M8	1,25	63	22	6,00	4,90	4	42886	
M10	1,50	70	24	7,00	5,50	4	42887	
M12	1,75	75	28	9,00	7,00	3	42888	
M14	2,00	80	30	11,00	9,00	4	42889	
M16	2,00	80	32	12,00	9,00	4	42890	
M18	2,50	95	34	14,00	11,00	4	42891	
M20	2,50	95	34	16,00	12,00	4	42892	

Macho único Ref. 3001 disponible en pag. 130

Single Tap Ref. 3001 available in page 130

Taraud unique Ref. 3001 disponible pag. 130

**Línea 33 cm
3003**

JUEGO MACHOS MANO MÉTRICA

Metric Hand Tap Set

Jeu de tarauds à main métrique



ø	M3	M5	M6	M10	M12
Pcs	3	3	3	3	3

Ref. 4995 - Nº Art. 70990: €

Display 22

JUEGO MACHOS MANO MÉTRICA

Metric Hand Tap Set

Jeu de tarauds à main métrique



Ø	M20	Mod. 01	Mod. 02	Mod. 10	Mod. 20
Pcs	1	1	1	1	1
Ø	M12	M14	M16	M18	
Pcs	2	1	1	1	
Ø	M-3	M-4	M-5	M-6	M-7
Pcs	2	2	2	2	2
Ø	M-8	M-10			
Pcs	2	2			

Ref. 4995 - Nº Art. 22298: €

Display 44

JUEGO MACHOS MANO MÉTRICA

Metric Hand Tap Set

Jeu de tarauds à main métrique



Ø	M-4	M-5	M-6	M-8	M-10	01
Pcs	2	2	2	2	2	2

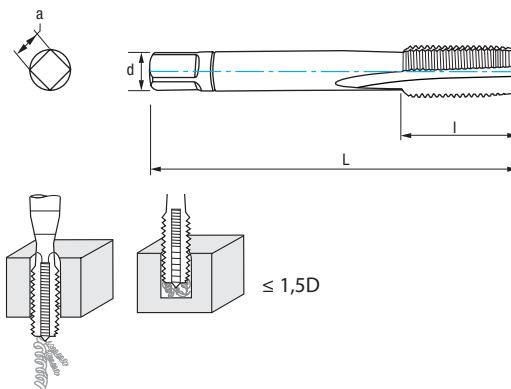
Ref. 4995 - Nº Art. 42490: €

Ref. 3036

JUEGO MACHOS MANO MÉTRICA/ MÉTRICA FINA COBALTO INOX

STAINLESS Cobalt Metric / Metric Fine Hand Tap Set

Jeu de tarauds à main métrique / métrique pas fin Cobalt INOX



HSSE
5% Co

M
DIN
352

MF
DIN
2181

Tol.
6H

Vaporiz.

C
2-3h

α
6-8°



Grupo
Group-Groupe
P

Subgrup.
Subgroup
P.5

INOX
Stainless Steel
Acier INOX

Fundición
Cast Iron
Fonte

Nº1 Desbaste
Roughing
Ébauche

Nº2 Semidesbaste
Semiroughing
Semi-ébauche

Nº3 Acabado
Finishing
Finition

Nº1-Nº2 Con guía
Guided
Avec guide

M	P	L mm	I mm	d mm	a mm	Z	Nº Art.	€
M2	0,40	36	8	2,80	2,10	3	69229	
M3	0,50	40	11	3,50	2,70	3	16404	
M4	0,70	45	13	4,50	3,40	3	16405	
M5	0,80	50	16	6,00	4,90	3	16406	
MF6	0,75	56	14	6,00	4,90	3	82254	
M6	1,00	56	19	6,00	4,90	3	16407	
MF8	1,00	63	18	6,00	4,90	3	82255	
M8	1,25	63	22	6,00	4,90	3	16408	
MF10	1,00	63	18	7,00	5,50	3	82256	
M10	1,50	70	24	7,00	5,50	3	16409	
MF12	1,00	70	18	9,00	7,00	3	82257	
MF12	1,50	70	22	9,00	7,00	3	82258	
M12	1,75	75	29	9,00	7,00	3	16410	
MF14	1,50	70	22	11,00	9,00	4	82259	
M14	2,00	80	30	11,00	9,00	4	16411	
MF16	1,50	70	22	12,00	9,00	4	82290	
M16	2,00	80	32	12,00	9,00	4	16412	
MF18	1,50	80	22	14,00	11,00	4	82260	
M18	2,50	95	40	14,00	11,00	4	16413	
MF20	1,50	80	22	16,00	12,00	4	82261	
M20	2,50	95	40	16,00	12,00	4	16414	

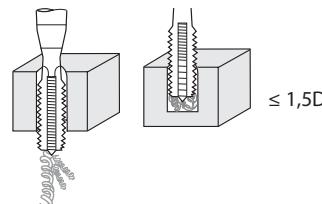
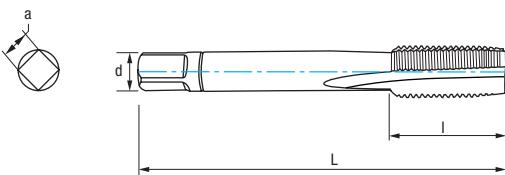


Ref. **3037**

MACHO ÚNICO MÉTRICA/ MÉTRICA FINA COBALTO INOX

STAINLESS Cobalt Metric / Metric Fine Hand Single Tap

Taraud à main unique métrique / métrique pas fin Cobalt INOX



**HSSE
5% Co**

**M
DIN
352**

**MF
DIN
2181**

**Tol.
6H**

Vaporiz.

**C
2-3h**

**α
6-8°**



**Grupo
Group-Groupe
P**

**Subgrup.
P.5**

**INOX
Stainless Steel
Acier INOX**

**Fundición
Cast Iron
Fonte**

**Nº1 Desbaste
Roughing
Ébauche**

**Nº2 Semidesbaste
Semiroughing
Semi-ébauche**

**Nº3 Acabado
Finishing
Finition**

**Nº1-Nº2 Con guía
Guided
Avec guide**

M	P	L mm	I mm	d mm				Nº3 Acabado Finishing Finition	Nº1 Desbaste Roughing Ébauche	Nº2 Semidesbaste Semiroughing Semi-ébauche	€
								Nº Art.	Nº Art.	Nº Art.	
M2	0,40	36	8	2,80	2,10	3		83127	83125	83126	
M3	0,50	40	11	3,50	2,70	3		74981	74979	74980	
M4	0,70	45	13	4,50	3,40	3		75010	74982	74983	
M5	0,80	50	16	6,00	4,90	3		74986	74984	74985	
MF6	0,75	56	14	6,00	4,90	3		82264	82262	82263	
M6	1,00	56	19	6,00	4,90	3		74990	74988	74989	
MF8	1,00	63	18	6,00	4,90	3		82267	82265	82266	
M8	1,25	63	22	6,00	4,90	3		74993	74991	74992	
MF10	1,00	63	18	7,00	5,50	3		82270	82268	82269	
M10	1,50	70	24	7,00	5,50	3		74998	74994	74997	
MF12	1,00	70	18	9,00	7,00	3		82273	82271	82272	
MF12	1,50	70	22	9,00	7,00	3		82276	82274	82275	
M12	1,75	75	29	9,00	7,00	3		75003	74999	75000	
MF14	1,50	70	22	11,00	9,00	4		82279	82277	82278	
M14	2,00	80	30	11,00	9,00	4		75006	75004	75005	
MF16	1,50	70	22	12,00	9,00	4		82283	82280	82282	
M16	2,00	80	32	12,00	9,00	4		74974	72865	72864	
MF18	1,50	80	22	14,00	11,00	4		82286	82284	82285	
M18	2,50	95	40	14,00	11,00	4		75009	75007	75008	
MF20	1,50	80	22	16,00	12,00	4		82289	82287	82288	
M20	2,50	95	40	16,00	12,00	4		59960	74131	74977	

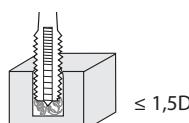
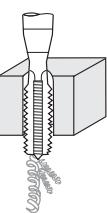
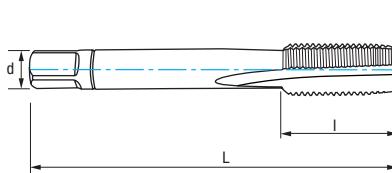


Ref. 3020

JUEGO MACHOS MANO MÉTRICA FINA

Metric Fine Hand Tap Set

Jeu de tarauds à main métrique pas fin



$\leq 1,5D$



HSS

DIN
2181

Tol.
6H



C
2-3h
 α
 $10^\circ \pm 2$



Nº1 Desbaste
Roughing
Ébauche

Nº3 Acabado
Finishing
Finition

Aceros
<850 N/mm²
Steel / Aciers

Fundición
Cast Iron
Fonte

Cobre
Copper
Cuivre

Aluminio
Aluminium

MF	P	L mm	I mm	d mm		a mm	Z	Nº Art.	€
MF4	0,50	45	10	4,50		3,40	3	62336	
MF5	0,50	50	12	6,00		4,90	3	62342	
MF5	0,75	50	12	6,00		4,90	3	62345	
MF6	0,50	50	14	6,00		4,90	3	62351	
MF6	0,75	50	14	6,00		4,90	3	62354	
MF7	0,75	50	14	6,00		4,90	3	62360	
MF8	0,50	50	19	6,00		4,90	4	62366	
MF8	0,75	50	19	6,00		4,90	4	62369	
MF8	1,00	56	20	6,00		4,90	4	62372	
MF9	1,00	63	20	7,00		5,50	4	75090	
MF10	0,50	63	20	7,00		5,50	4	21727	
MF10	0,75	63	20	7,00		5,50	4	76309	
MF10	1,00	63	20	7,00		5,50	4	62378	
MF10	1,25	70	24	7,00		5,50	4	62381	
MF11	0,75	63	20	8,00		6,20	4	16118	
MF11	1,00	63	20	8,00		6,20	4	76311	
MF11	1,25	63	20	8,00		6,20	4	75298	
MF12	0,75	70	22	9,00		7,00	4	76312	
MF12	1,00	70	20	9,00		7,00	4	62387	
MF12	1,25	70	22	9,00		7,00	4	62390	
MF12	1,50	70	22	9,00		7,00	4	62393	
MF13	0,75	70	22	11,00		9,00	4	56832	
MF13	1,00	70	20	11,00		9,00	4	76314	
MF13	1,25	70	22	11,00		9,00	4	76315	
MF13	1,50	70	22	11,00		9,00	4	62399	
MF14	0,75	70	22	11,00		9,00	4	56833	
MF14	1,00	70	20	11,00		9,00	4	62402	
MF14	1,25	70	20	11,00		9,00	4	62405	
MF14	1,50	70	20	11,00		9,00	4	62408	
MF14	1,75	70	30	11,00		9,00	4	10875	
MF15	1,00	70	20	12,00		9,00	4	76318	
MF15	1,25	70	22	12,00		9,00	4	76319	
MF15	1,50	70	20	12,00		9,00	4	75299	
MF16	1,00	70	20	12,00		9,00	4	62414	
MF16	1,25	70	20	12,00		9,00	4	76320	
MF16	1,50	70	20	12,00		9,00	4	62417	

MF	P	L mm	I mm	d mm		a mm	Z	Nº Art.	€
MF17	1,00	70	22	12,00		9,00	4	76321	
MF17	1,25	70	22	12,00		9,00	4	56834	
MF17	1,50	70	22	12,00		9,00	4	62420	
MF18	1,00	80	22	14,00		11,00	4	62423	
MF18	1,25	80	22	14,00		11,00	4	76323	
MF18	1,50	80	22	14,00		11,00	4	62426	
MF18	2,00	80	22	14,00		11,00	4	62429	
MF19	1,00	80	22	14,00		11,00	4	10831	
MF19	1,25	80	22	14,00		11,00	4	56835	
MF19	1,50	80	22	14,00		11,00	4	76326	
MF19	2,00	80	22	14,00		11,00	4	56837	
MF20	1,00	80	22	16,00		12,00	4	76327	
MF20	1,25	80	22	16,00		12,00	4	74816	
MF20	1,50	80	22	16,00		12,00	4	62435	
MF20	2,00	80	22	16,00		12,00	4	62438	
MF21	1,00	80	22	16,00		12,00	4	56838	
MF21	1,25	80	22	16,00		12,00	4	56840	
MF21	1,50	80	22	16,00		12,00	4	75300	
MF22	1,00	80	22	18,00		14,50	4	76330	
MF22	1,25	80	22	18,00		14,50	4	74601	
MF22	1,50	80	22	18,00		14,50	4	62441	
MF22	2,00	80	22	18,00		14,50	4	62444	
MF23	1,00	80	22	18,00		14,50	4	56841	
MF23	1,50	80	22	18,00		14,50	4	56842	
MF24	1,00	90	22	18,00		14,50	4	76333	
MF24	1,25	90	22	18,00		14,50	4	62447	
MF24	1,50	90	22	18,00		14,50	4	62450	
MF24	2,00	90	22	18,00		14,50	4	62453	
MF25	1,00	90	22	18,00		14,50	4	76334	
MF25	1,25	90	22	18,00		14,50	4	56843	
MF25	1,50	90	22	18,00		14,50	4	75301	
MF25	2,00	90	22	18,00		14,50	4	56844	
MF26	1,00	90	22	18,00		14,50	4	56846	
MF26	1,50	90	22	18,00		14,50	4	75302	
MF26	2,00	90	22	18,00		14,50	4	56847	
MF27	1,00	90	22	20,00		16,00	4	76338	

Cont.

Ref. **3020**

JUEGO MACHOS MANO MÉTRICA FINA

Metric Fine Hand Tap Set

Jeu de tarauds à main métrique pas fin

Cont.

MF	P	L mm	I mm	d mm	a mm	z	Nº Art.	€
MF27	1,50	90	22	20,00	16,00	4	76339	
MF27	2,00	90	22	20,00	16,00	4	75303	
MF28	1,00	90	22	20,00	16,00	4	76340	
MF28	1,50	90	22	20,00	16,00	4	76341	
MF30	1,00	90	22	22,00	18,00	4	76342	
MF30	1,50	90	22	22,00	18,00	4	76343	
MF30	2,00	90	22	22,00	18,00	4	75304	
(New!) MF30	3,00	90	22	22,00	18,00	4	14421	
MF32	1,50	90	22	22,00	18,00	4	76345	
MF33	1,50	100	25	25,00	20,00	4	76348	
MF33	2,00	100	25	25,00	20,00	4	75305	
MF34	1,50	100	25	28,00	22,00	4	76349	
MF35	1,50	100	25	28,00	22,00	4	76350	
MF36	1,50	100	25	28,00	22,00	4	76351	
MF36	2,00	125	33	28,00	22,00	4	76140	
MF36	3,00	125	33	28,00	22,00	4	76352	
MF38	1,50	100	25	28,00	22,00	4	76353	
MF38	2,00	125	40	28,00	22,00	4	75306	
MF39	1,50	110	25	32,00	24,00	4	76354	
MF39	2,00	125	33	32,00	24,00	4	76355	
MF39	3,00	125	33	32,00	24,00	4	76356	
MF40	1,50	110	25	32,00	24,00	6	76357	
MF40	2,00	110	25	32,00	24,00	6	76358	
MF40	3,00	125	40	32,00	24,00	6	76359	
MF42	2,00	125	33	32,00	24,00	6	76361	
MF42	3,00	125	33	32,00	24,00	6	76362	
MF45	1,50	110	25	36,00	29,00	6	76363	
MF45	2,00	125	33	36,00	29,00	6	76364	
MF45	3,00	125	33	36,00	29,00	6	76365	
MF48	1,50	140	33	36,00	29,00	6	76366	
MF48	2,00	140	33	36,00	29,00	6	76367	
MF48	3,00	140	33	36,00	29,00	6	76368	
MF50	1,50	140	40	36,00	29,00	6	76369	
MF52	1,50	140	40	40,00	32,00	6	76370	
MF52	2,00	140	40	40,00	32,00	6	77643	
MF52	3,00	140	40	40,00	32,00	6	76372	

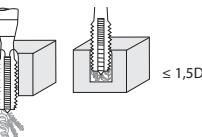
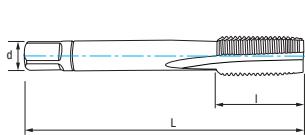


Ref. 3010

MACHO ÚNICO MANO MÉTRICA/ MÉTRICA FINA

Metric / Metric Fine Hand Single Tap

Taraud à main unique métrique / métrique pas fin

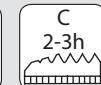


HSS

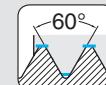
M
DIN
352

MF
DIN
2181

Tol.
6H



α
 $10^\circ \pm 2$



Aceros
<850 N/mm²
Steel / Aciers

Fundición
Cast Iron
Fonte

Cobre
Copper
Cuivre

Aluminio
Aluminium

M/MF	P	L mm	I mm	d mm		a mm		Nº3 Acabado Finishing Finition (M Ref. 3030 / MF Ref. 3020)		Nº 1 Desbaste M Roughing Ébauche (Ref. 3030)		Nº 2 Semidesbaste M Semiroughing Semi-ébauche (Ref. 3030)	
								Nº Art. HSS	€	Nº Art. HSS	€	Nº Art. HSS	€
M2	0,40	36	8	2,80		2,10	3	76385		22710		33368	
M2	0,45	41	8	2,50		2,00	3	16451					
M2,5	0,45	40	9	2,80		2,10	3	76387					
M3	0,50	40	11	3,50		2,70	3	76389		11158		12723	
M3,5	0,60	45	13	4,00		3,00	3	76391		66186		20538	
MF4	0,50	45	10	4,50		3,40	3	76393					
M4	0,70	45	13	4,50		3,40	3	76394		18943		11263	
M4,5	0,75	50	16	6,00		4,90	3	76397		66187		66192	
MF5	0,50	50	12	6,00		4,90	3	59484					
MF5	0,75	50	12	6,00		4,90	3	59485					
M5	0,80	50	16	6,00		4,90	3	76400		11262		26620	
MF6	0,50	50	14	6,00		4,90	3	59486					
MF6	0,75	50	14	6,00		4,90	3	76405					
M6	1,00	50	19	6,00		4,90	3	75383		10630		10833	
MF7	0,75	50	14	6,00		4,90	3	46217					
M7	1,00	50	19	6,00		4,90	3	76408		66201		32812	
MF8	0,50	50	19	6,00		4,90	4	59487					
MF8	0,75	50	19	6,00		4,90	4	59488					
MF8	1,00	56	20	6,00		4,90	4	76411					
M8	1,25	56	22	6,00		4,90	4	75449		10938		26629	
MF9	1,00	63	20	7,00		5,50	4	34577				26629	
M9	1,25	63	22	7,00		5,50	4	76414		66208		20543	
MF10	0,50	63	20	7,00		5,50	4	59489					
MF10	0,75	63	20	7,00		5,50	4	59490					
MF10	1,00	63	20	7,00		5,50	4	76417					
MF10	1,25	70	24	7,00		5,50	4	76418					
M10	1,50	70	24	7,00		5,50	4	74995		11148		15086	
MF11	0,75	63	20	8,00		6,20	4	59491					
MF11	1,00	63	20	8,00		6,20	4	59492					
MF11	1,25	63	22	8,00		6,20	4	59493					
M11	1,50	70	24	8,00		6,20	4	76422		25211		21282	
MF12	0,75	70	22	9,00		7,00	4	59494					
MF12	1,00	70	20	9,00		7,00	4	22221					
MF12	1,25	70	22	9,00		7,00	4	76425					
MF12	1,50	70	22	9,00		7,00	4	76426					
M12	1,75	75	29	9,00		7,00	4	74996		10834		28407	
MF13	0,75	70	22	11,00		9,00	4	59495					
MF13	1,00	70	20	11,00		9,00	4	59496					
MF13	1,25	70	22	11,00		9,00	4	59497					
MF13	1,50	70	22	11,00		9,00	4	59498					
MF14	0,75	70	22	11,00		9,00	4	59499					
MF14	1,00	70	20	11,00		9,00	4	76433					
MF14	1,25	70	20	11,00		9,00	4	45040					
MF14	1,50	70	20	11,00		9,00	4	76435					
MF14	1,75	70	30	11,00		9,00	4	59500					
M14	2,00	80	30	11,00		9,00	4	76436		11772		20529	
MF15	1,00	70	20	12,00		9,00	4	59501					
MF15	1,25	70	22	12,00		9,00	4	59503					
MF15	1,50	70	20	12,00		9,00	4	76439					
MF16	1,00	70	22	12,00		9,00	4	59504					
MF16	1,25	70	22	12,00		9,00	4	59505					
MF16	1,50	70	20	12,00		9,00	4	76443					
M16	2,00	80	32	12,00		9,00	4	76444		17461		16312	
MF17	1,00	70	22	12,00		9,00	4	59506					
MF17	1,25	70	22	12,00		9,00	4	59507					

MF N°1
bajo demanda
upon request
sur demande

Cont.

MF N°1
bajo demanda
upon request
sur demande

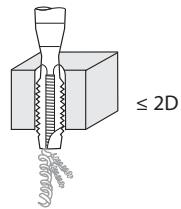
M/MF	P	L mm	I mm	d mm	a mm	Z	Nº3 Acabado Finishing Finition (M Ref. 3030 / MF Ref. 3020)		Nº 1 Desbaste M Roughing Ébauche (Ref. 3030)		Nº 2 Semidesbaste M Semiroughing Semi-Ébauche (Ref. 3030)	
							Nº Art. HSS	€	Nº Art. HSS	€	Nº Art. HSS	€
MF17	1,50	70	22	12,00	9,00	4	59562					
MF18	1,00	80	22	14,00	11,00	4	59508					
MF18	1,25	80	22	14,00	11,00	4	59509					
MF18	1,50	80	22	14,00	11,00	4	45039					
MF18	2,00	80	22	14,00	11,00	4	59510					
M18	2,50	95	40	14,00	11,00	4	76452		11916		66249	
MF19	1,25	80	22	14,00	11,00	4	59511					
MF19	1,50	80	22	14,00	11,00	4	59512					
MF19	2,00	80	22	14,00	11,00	4	59513					
MF20	1,00	80	22	16,00	12,00	4	59514					
MF20	1,25	80	22	16,00	12,00	4	59515					
MF20	1,50	80	22	16,00	12,00	4	76476					
MF20	2,00	80	22	16,00	12,00	4	59516					
M20	2,50	95	40	16,00	12,00	4	76478		11917		17261	
MF21	1,00	80	22	16,00	12,00	4	59517					
MF21	1,25	80	22	16,00	12,00	4	59518					
MF21	1,50	80	22	16,00	12,00	4	59519					
MF22	1,00	80	22	18,00	14,50	4	59521					
MF22	1,25	80	22	18,00	14,50	4	59522					
MF22	1,50	80	22	18,00	14,50	4	76484					
MF22	2,00	80	22	18,00	14,50	4	76485					
M22	2,50	100	40	18,00	14,50	4	76486		65789		15241	
MF23	1,00	80	22	18,00	14,50	4	59523					
MF23	1,50	80	22	18,00	14,50	4	59524					
MF24	1,25	90	22	18,00	14,50	4	59525					
MF24	2,00	90	22	18,00	14,50	4	59526					
M24	3,00	110	50	18,00	14,50	4	76493		58475		12505	
MF25	1,00	90	22	18,00	14,50	4	59527					
MF25	1,25	90	22	18,00	14,50	4	59528					
MF25	2,00	90	22	18,00	14,50	4	59561					
MF26	1,00	90	22	18,00	14,50	4	59529					
MF26	1,50	90	22	18,00	14,50	4	59530					
MF26	2,00	90	22	18,00	14,50	4	59531					
MF27	1,00	90	22	20,00	16,00	4	59532					
MF27	1,50	90	22	20,00	16,00	4	59533					
M27	3,00	110	50	20,00	16,00	4	76505		10836		66294	
MF28	1,00	90	22	20,00	16,00	4	59534					
MF28	1,50	90	22	20,00	16,00	4	59535					
MF30	1,00	90	22	22,00	18,00	4	16388					
MF30	1,50	90	22	22,00	18,00	4	59536					
M30	3,50	125	56	22,00	18,00	4	76512		26582		13046	
MF33	1,50	100	25	25,00	20,00	4	59537					
MF33	2,00	100	25	25,00	20,00	4	59538					
M33	3,50	125	56	25,00	20,00	4	76519		66307		66308	
MF34	1,50	100	25	28,00	22,00	4	59539					
MF35	1,50	100	25	28,00	22,00	4	59540					
MF36	1,50	100	25	28,00	22,00	4	59541					
MF36	3,00	125	40	28,00	22,00	4	59542					
M36	4,00	150	63	28,00	22,00	4	76525		66317		38036	
MF38	1,50	100	25	28,00	22,00	4	59543					
MF38	2,00	125	40	28,00	22,00	4	59544					
MF39	1,50	110	25	32,00	24,00	4	59545					
MF39	2,00	125	40	32,00	24,00	4	59546					
MF39	3,00	125	40	28,00	22,00	4	59547					
M39	4,00	150	63	32,00	24,00	4	76531		66328		66329	
MF40	1,50	110	25	32,00	24,00	4	59548					
MF40	2,00	125	40	32,00	24,00	4	59549					
MF40	3,00	125	40	32,00	24,00	4	59550					
MF42	1,50	110	25	32,00	24,00	4	14781					
MF42	2,00	125	40	32,00	24,00	4	59551					
MF42	3,00	125	40	32,00	24,00	4	59552					
M42	4,50	150	63	32,00	24,00	4	76538		66342		61071	
MF45	1,50	110	25	36,00	29,00	6	16389					
MF45	2,00	125	40	36,00	29,00	6	59553					
MF45	3,00	125	40	36,00	29,00	6	59554					
M45	4,50	160	70	36,00	29,00	6	76542		32663		32664	
MF48	1,50	140	40	36,00	29,00	6	16390					
MF48	2,00	140	40	36,00	29,00	6	59555					
MF48	3,00	140	40	36,00	29,00	6	59556					
M48	5,00	180	75	36,00	29,00	6	76546		66355		66356	
MF50	1,50	140	40	36,00	29,00	6	59557					
MF52	1,50	140	40	40,00	32,00	6	59558					
MF52	2,00	140	40	40,00	32,00	6	59559					
MF52	3,00	140	40	40,00	32,00	6	59560					
M52	5,00	180	75	40,00	32,00	6	76551		66367		66368	

Ref. **3001**

MACHO ÚNICO MANO MÉTRICA

Metric Hand Single Tap

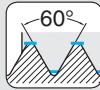
Taraud à main unique métrique



HSS

DIN
352

Tol.
6H



Nº3 Acabado
Finishing
Finition

Aceros
<850 N/mm²
Steel / Aciers

Fundición
Cast Iron
Fonte

Cobre
Copper
Cuivre

Aluminio
Aluminium



M	P	L mm	I mm	d mm	a mm	z	Nº Art.	€
M3	0,50	40	11	3,50	2,70	3	25217	
M4	0,70	45	13	4,00	3,00	3	25218	
M5	0,80	50	16	6,00	4,90	3	25219	
M6	1,00	56	19	6,00	4,90	3	25220	
M8	1,25	56	22	6,00	4,90	4	25222	
M10	1,50	70	24	7,00	5,50	4	25224	
M12	1,75	75	29	9,00	7,00	3	25374	

Línea 33 cm
3001

MACHO ÚNICO MANO MÉTRICA

Metric Hand Single Tap

Taraud à main unique métrique



Ø	M3	M5	M6	M8	M10
Pcs	3	3	3	3	3

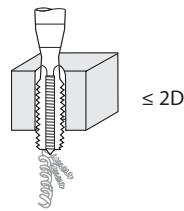
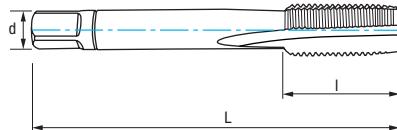
Ref. 4995 - Nº Art. 72118: €



Ref. 3023

MACHO MANO PERfil ROSCA COMPLETA

Whole Thread Profile Hand Tap
Taraud à main profil filetage complet



HSS

DIN
352

Tol.
6H

α
 $10^\circ \pm 2$



Aceros
<850 N/mm²
Steel / Aciers

Fundición
Cast Iron
Fonte

Cobre
Copper
Cuivre

Aluminio
Aluminium



Macho único que finaliza la rosca completa en agujeros pasantes. Espesor material <1,5 mm. Viruta media/larga.

Single tap for whole thread finishing in through holes. Material thickness <1,5 mm. Medium/long chip removal.

Guidage et filetage complet sur trous débouchants. Épaisseur matériel <1,5 mm. Copeaux moyens/longs.

M	P	L mm	I mm	d mm	a mm	z	Nº Art.	€
M3	0,50	40	11	3,50	2,70	3	46263	
M4	0,70	45	13	4,50	3,40	3	46264	
M5	0,80	50	16	6,00	4,90	3	46265	
M6	1,00	50	19	6,00	4,90	3	46266	
M8	1,25	56	22	6,00	4,90	4	46267	
M10	1,50	70	24	7,00	5,50	4	46268	
M12	1,75	75	29	9,00	7,00	4	46269	
M16	2,00	80	32	12,00	9,00	4	46270	
M20	2,50	95	40	16,00	12,00	4	46271	

Línea 33 cm
3023

MACHO MANO PERfil ROSCA COMPLETA

Whole Thread Profile Hand Tap
Taraud à main profil filetage complet



ø	M3	M4	M5	M6	M8	M10
Pcs	5	5	5	5	5	5

Ref. 4995 - Nº Art. 72121: €



Ref. 3040

JUEGO MACHOS MANO RÁPIDO MÉTRICA NORMA ISO

ISO Standard Metric Fast Hand Tap Set

Jeu de tarauds à main rapide métrique norme ISO



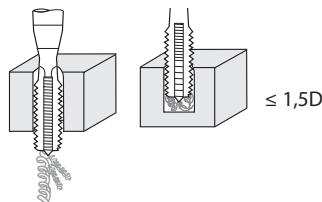
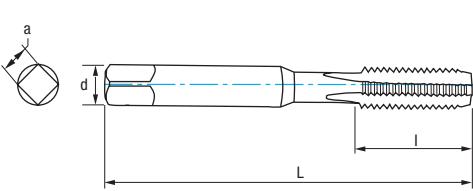
C 2-3h



D 5h



A 8h



HSS

ISO
529

Tol.
6H

A 8h

D 5h

C 2-3h

α
 $10^\circ \pm 2$



Aceros
<850 N/mm²
Steel / Aciers

Fundición
Cast Iron
Fonte

Cobre
Copper
Cuivre

Aluminio
Aluminium



M	P	L mm	I mm	d mm	a mm	z	Nº Art.	€
M2	0,40	41	8	2,50	2,00	3	83527	
M3	0,50	48	11	3,15	2,50	3	68870	
M4	0,70	53	13	4,00	3,15	3	68871	
M5	0,80	58	16	5,00	4,00	3	68872	
M6	1,00	66	19	6,30	5,00	3	68873	
M8	1,25	72	22	8,00	6,30	4	68874	
M10	1,50	80	24	10,00	8,00	4	68875	
M12	1,75	89	29	9,00	7,10	4	68876	
M14	2,00	95	30	11,20	9,00	4	68877	
M16	2,00	102	32	12,50	10,00	4	68878	

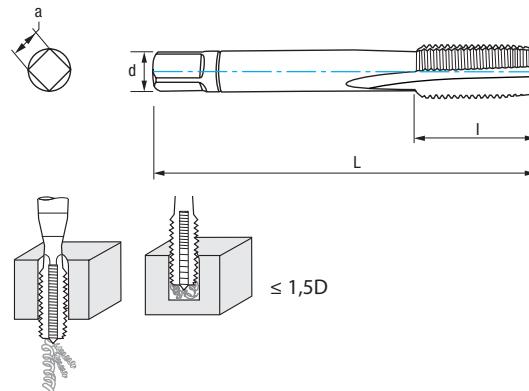


Ref. **3032**

JUEGO MACHOS MANO BSW (WHITWORTH)

BSW (Whitworth) Hand Tap Set

Jeu de tarauds à main BSW (Whitworth)



HSS

DIN
352

C
2-3h

α
 $10^\circ \pm 2$



Rosca Whitworth cilíndrica
Straight Whitworth Thread
Filetage Whitworth cylindrique

Aceros
<850 N/mm²
Steel / Aciers

Fundición
Cast Iron
Fonte

Cobre
Copper
Cuivre

Aluminio
Aluminium



W	Hilos Threads Filets	L mm	I mm	d mm	a mm	z	Nº Art.	€
W3/32	48,00	36	10	2,80	2,10	3	62663	
W1/8	40,00	40	12	3,50	2,70	3	62642	
W5/32	32,00	45	14	4,50	3,40	3	62675	
W3/16	24,00	50	18	6,00	4,90	3	62660	
W7/32	24,00	50	18	6,00	4,90	3	62684	
W1/4	20,00	50	19	6,00	4,90	3	62633	
W5/16	18,00	56	22	6,00	4,90	4	62669	
W3/8	16,00	70	24	7,00	5,50	4	62654	
W7/16	14,00	70	24	8,00	6,20	4	62681	
W1/2	12,00	75	29	9,00	7,00	4	62630	
W9/16	12,00	80	30	11,00	9,00	4	62687	
W5/8	11,00	80	32	12,00	9,00	4	62666	
W3/4	10,00	95	40	14,00	11,00	4	62645	
W7/8	9,00	100	40	18,00	14,50	4	62678	
W1"	8,00	110	50	18,00	14,50	4	62693	
W1"1/8	7,00	132	56	22,00	18,00	4	62702	
W1"1/4	7,00	132	56	22,00	18,00	4	62699	
W1"3/8	6,00	150	63	28,00	22,00	4	42713	
W1"1/2	6,00	150	63	32,00	24,00	4	62696	
W1"5/8	5,00	160	70	32,00	24,00	4	59880	
W1"3/4	5,00	160	70	36,00	29,00	6	59881	
W1"7/8	4,50	190	80	36,00	29,00	6	59882	
W2"	4,50	190	80	40,00	32,00	6	59883	

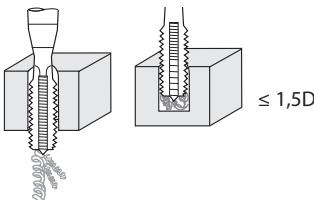
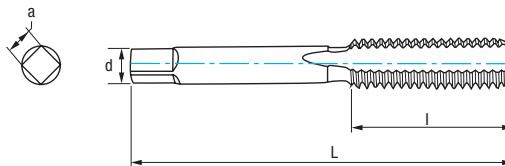


Ref. **3012**

MACHO ÚNICO MANO BSW (WHITWORTH)

BSW (Whitworth) Hand Tap

Taraud à main BSW (Whitworth)



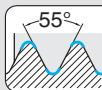
$\leq 1,5D$

HSS

DIN
352



α
 $10^\circ \pm 2$



Rosca Whitworth cilíndrica
Straight Whitworth Thread
Filetage Whitworth cylindrique

Nº3 Acabado
Finishing
Finition

Aceros
 $<850 \text{ N/mm}^2$
Steel / Aciers

Fundición
Cast Iron
Fonte

Cobre
Copper
Cuivre

Aluminio
Aluminium

W	Hilos Threads Filets	L mm	I mm	d mm	a mm	z	Nº Art.	€
W3/32	48,00	40	9	2,80	2,10	3	75404	
W1/8	40,00	40	14	3,50	2,70	3	75401	
W5/32	32,00	45	17	4,50	3,40	3	75069	
W3/16	24,00	50	19	6,00	4,90	3	74825	
W7/32	24,00	50	19	6,00	4,90	3	75409	
W1/4	20,00	50	20	6,00	4,90	3	75400	
W5/16	18,00	56	20	6,00	4,90	4	75406	
W3/8	16,00	63	22	7,00	5,50	4	75403	
W7/16	14,00	70	22	8,00	6,20	4	75408	
W1/2	12,00	75	25	9,00	7,00	4	75399	
W9/16	12,00	80	26	11,00	9,00	4	75448	
W5/8	11,00	80	27	12,00	9,00	4	75405	
W3/4	10,00	95	32	14,00	11,00	4	75402	
W7/8	9,00	100	32	18,00	14,50	4	75407	
W1"	8,00	110	36	18,00	14,50	4	75410	
W1" 1/8	7,00	125	40	22,00	18,00	4	76255	
W1" 1/4	7,00	125	40	22,00	18,00	4	76259	
W1" 3/8	6,00	150	50	28,00	22,00	4	76264	
W1" 1/2	6,00	150	50	32,00	24,00	4	76269	
W1" 5/8	5,00	150	56	32,00	24,00	4	76274	
W1" 3/4	5,00	160	58	36,00	29,00	4	76280	
W1" 7/8	4,50	180	65	36,00	29,00	4	76286	
W2"	4,50	180	65	40,00	32,00	4	76291	

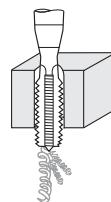
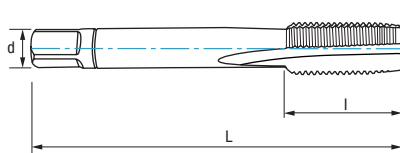


Ref. 3026

JUEGO MACHOS MANO BSP (GAS)

BSP (Gas) Hand Tap Set

Jeu tarauds à main BSP (Gaz)



$\leq 1,5D$

HSS

DIN
5157



α
 $10^\circ \pm 2$

Nº1 Desbaste
Roughing
Ébauche

Nº3 Acabado
Finishing
Finition

Rosca británica para tubo paralelo (BSPP-GAS)
British Standard Parallel Pipe (BSPP-GAS)
Filetage britannique pour tuyau parallèle (BSPP-GAS)

Aceros
<850 N/mm²
Steel / Aciers

Fundición
Cast Iron
Fonte

Cobre
Copper
Cuivre

Aluminio
Aluminium

G	Hilos Threads Fillets	L mm	I mm	d mm		a mm		Z	Nº Art.	€
G1/8	28	63	20	7	5,50	3		62510		
G1/4	19	70	22	11	9,00	4		62504		
G3/8	19	70	22	12	9,00	4		62516		
G1/2	14	80	22	16	12,00	4		62498		
G5/8	14	80	22	18	14,50	4		62522		
G3/4	14	90	22	20	16,00	4		62513		
G7/8	14	90	22	22	18,00	4		62525		
G1"	11	100	25	25	20,00	4		62528		

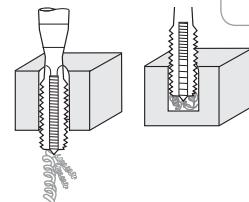
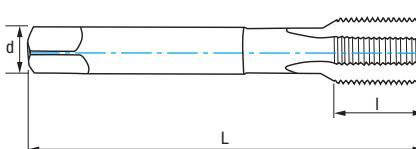
G	Hilos Threads Fillets	L mm	I mm	d mm		a mm		Z	Nº Art.	€
G1" 1/8	11	125	40	28	22,00	4		76195		
G1" 1/4	11	125	40	32	24,00	4		76203		
G1" 3/8	11	125	40	36	29,00	4		76211		
G1" 1/2	11	140	40	36	29,00	6		74823		
G1" 3/4	11	140	40	40	32,00	6		76225		
G2"	11	160	40	45	35,00	8		76231		

Ref. 3016

MACHO ÚNICO MANO BSP (GAS)

BSP (Gas) Hand Tap

Taraud à main BSP (Gaz)



$\leq 1,5D$

HSS

DIN
5157



α
 $10^\circ \pm 2$

Nº3 Acabado
Finishing
Finition

Rosca británica para tubo paralelo (BSPP-GAS)
British Standard Parallel Pipe (BSPP-GAS)
Filetage britannique pour tuyau parallèle (BSPP-GAS)

Aceros
<850 N/mm²
Steel / Aciers

Fundición
Cast Iron
Fonte

Cobre
Copper
Cuivre

Aluminio
Aluminium

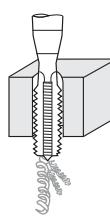
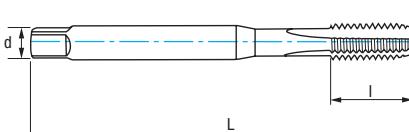
G	Hilos Threads Fillets	L mm	I mm	d mm		a mm		Z	Nº Art.	€
G1/8	28	63	20	7	5,50	3		75461		
G1/4	19	70	22	11	9,00	4		75460		
G3/8	19	70	22	12	9,00	4		75462		
G1/2	14	80	22	16	12,00	4		75459		
G5/8	14	80	22	18	14,50	4		75463		
G3/4	14	90	22	20	16,00	4		75106		
G7/8	14	90	22	22	18,00	4		76246		
G1"	11	100	25	25	20,00	4		75464		

G	Hilos Threads Fillets	L mm	I mm	d mm		a mm		Z	Nº Art.	€
G1" 1/8	11	125	40	28	22,00	4		76196		
G1" 1/4	11	125	40	32	24,00	4		76204		
G1" 3/8	11	140	40	36	29,00	4		76212		
G1" 1/2	11	140	40	36	29,00	6		76218		
G1" 3/4	11	140	40	40	32,00	6		76226		
G2"	11	160	40	45	35,00	8		76232		

Ref. 3100

MACHO RECTO MÁQUINA MÉTRICA MANGO REFORZADO

Reinforced Shank Metric Machine Straight Tap
Taraud droit machine métrique queue renforcée



HSSE
5% Co

DIN
371

Reforzado
Reinforced
Renforcée



Tol.
6H

α
 $10^\circ \pm 2$



Aceros
 $<850 \text{ N/mm}^2$
Steel / Aciers

Cobre
Copper
Cuivre

Aluminio
Aluminium



M	P	L mm	I mm	d mm	mm	mm	Nº Art.	€
M2	0,40	45	9	2,80	2,10	3	62771	
M2,5	0,45	50	9	2,80	2,10	3	76724	
M2,6	0,45	50	9	2,80	2,10	3	76725	
M3	0,50	56	11	3,50	2,70	3	62774	
M3,5	0,60	56	13	4,00	3,00	3	62777	
M4	0,70	63	13	4,50	3,40	3	62780	
M4,5	0,75	70	16	6,00	4,90	3	76728	
M5	0,80	70	16	6,00	4,90	3	62783	
M6	1,00	80	19	6,00	4,90	3	62789	
M7	1,00	80	19	7,00	5,50	3	76733	
M8	1,25	90	22	8,00	6,20	3	62795	
M9	1,25	90	18	9,00	7,00	3	62798	
M10	1,50	100	24	10,00	8,00	3	62807	



Expo 25 Pcs

Cont. Ø	Nº Art.	€
Machos / Taps / Tarauds DIN 371: M4-M5-M6-M8- M10 (5 pcs x M)	38998	

Set Ref. 3100



7 Pcs

Set Ref. 3100
+ 1010 HSS



14 Pcs

Set Ref. 3100
+ 1016 HSSE



14 Pcs

Cont. Ø	Nº Art.	€
Machos / Taps / Tarauds DIN 371: M3-M4-M5- M6-M8-M10 + DIN 376: M12	43348	

Cont. Ø	Nº Art.	€
Machos / Taps / Tarauds DIN 371: M3-M4-M5-M6- M8-M10 + DIN 376: M12 Brocas / Drill Bits / Forets HSS: 2,5-3,3-4,2-5,0-6,8-8,5- 10,2	43354	

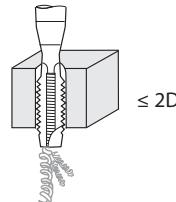
Cont. Ø	Nº Art.	€
Machos / Taps / Tarauds DIN 371: M3-M4-M5-M6- M8-M10 + DIN 376: M12 Brocas / Drill Bits / Forets HSSE: 2,5-3,3-4,2-5,0-6,8-8,5- 10,2	21801	

Ref. 3200

MACHO RECTO MÁQUINA MÉTRICA/ MÉTRICA FINA

Metric / Metric Fine Machine Straight Tap

Taraud droit machine métrique / métrique pas fin



HSSE
5% Co

M
DIN
376

MF
DIN
374

B
3,5-5h
GUN

GUN

Tol.
6H

α
 $10^\circ \pm 2$

60°

Aceros
<850 N/mm²
Steel / Aciers

Cobre
Copper
Cuivre

Aluminio
Aluminium



M/MF	P	L mm	I mm	d mm	a mm	Z	Nº Art.	€
M3	0,50	56	11	2,20			70090	
M4	0,70	63	13	2,80	2,10	3	70092	
M5	0,80	70	16	3,50	2,70	3	70093	
M6	1,00	80	19	4,50	3,40	3	70095	
M7	1,00	80	19	5,50	4,30	3	70224	
MF8	0,75	80	19	6,00	4,90	3	70267	
MF8	1,00	90	22	6,00	4,90	3	70248	
M8	1,25	90	22	6,00	4,90	3	70096	
MF10	1,00	90	20	7,00	5,50	3	70249	
MF10	1,25	100	24	7,00	5,50	3	70251	
M10	1,50	100	24	7,00	5,40	3	70098	
M11	1,50	100	24	8,00	6,20	3	70225	
MF12	1,00	100	22	9,00	7,00	3	70252	
MF12	1,25	100	22	9,00	7,00	3	70254	
MF12	1,50	100	22	9,00	7,00	3	70255	
M12	1,75	110	29	9,00	7,00	3	70183	
MF14	1,00	100	22	11,00	9,00	3	70281	
MF14	1,25	100	22	11,00	9,00	3	70257	
MF14	1,50	100	22	11,00	9,00	3	70258	
M14	2,00	110	30	11,00	9,00	3	70185	
MF15	1,50	100	22	12,00	9,00	3	70282	
MF16	1,50	100	22	12,00	9,00	3	70260	
M16	2,00	110	32	12,00	9,00	3	70186	
MF18	1,00	110	25	14,00	11,00	3	70284	
MF18	1,50	110	25	14,00	11,00	3	70261	
MF18	2,00	125	34	14,00	11,00	3	70285	
M18	2,50	125	34	14,00	11,00	3	75215	
MF20	1,00	125	25	16,00	12,00	3	70287	
MF20	1,50	125	25	16,00	12,00	3	70263	
MF20	2,00	140	34	16,00	12,00	3	70288	
M20	2,50	140	34	16,00	12,00	3	70189	
MF22	1,50	125	25	18,00	14,50	3	75216	
MF22	2,00	140	34	18,00	14,50	3	70290	
M22	2,50	140	34	18,00	14,50	3	70212	
MF24	1,50	140	28	18,00	14,50	4	70264	
MF24	2,00	140	28	18,00	14,50	4	70291	
M24	3,00	160	38	18,00	14,50	4	70213	
MF26	1,50	140	28	18,00	14,50	4	70293	

Ref. **3200**

MACHO RECTO MÁQUINA MÉTRICA/ MÉTRICA FINA

Metric / Metric Fine Machine Straight Tap

Taraud droit machine métrique / métrique pas fin

M/MF	P	L mm	I mm	d mm	 a mm	Z	Nº Art.	€
MF27	2,00	140	28	20,00	16,00	4	70294	
M27	3,00	160	38	20,00	16,00	4	70215	
MF28	1,50	140	28	20,00	16,00	4	70296	
MF30	1,50	150	28	22,00	18,00	4	70266	
M30	3,50	180	45	22,00	18,00	4	70216	
MF32	1,50	150	28	22,00	18,00	4	70297	
MF33	1,50	160	30	25,00	20,00	4	70299	
MF33	2,00	160	30	25,00	20,00	4	70300	
M33	3,50	180	50	25,00	20,00	4	70218	
MF35	1,50	170	30	28,00	22,00	4	70302	
MF36	1,50	170	30	28,00	22,00	4	81355	
MF36	2,00	170	30	28,00	22,00	4	81356	
MF36	3,00	200	42	28,00	22,00	4	81357	
M36	4,00	200	56	28,00	22,00	4	70219	
MF39	1,50	170	30	32,00	24,00	4	81358	
MF39	2,00	170	30	32,00	24,00	4	81359	
MF39	3,00	200	42	32,00	24,00	4	81360	
M39	4,00	200	50	32,00	24,00	4	81361	
MF42	1,50	170	30	32,00	24,00	4	81362	
MF42	2,00	170	30	32,00	24,00	4	81363	
MF42	3,00	200	50	32,00	24,00	4	81364	
M42	4,50	200	56	32,00	24,00	4	14886	
MF45	1,50	180	32	36,00	29,00	6	70303	
M45	4,50	220	56	36,00	29,00	6	81365	
M48	5,00	250	63	36,00	29,00	6	81366	
M52	5,00	250	63	40,00	32,00	6	81367	
M56	5,50	250	65	40,00	32,00	6	81368	
M60	5,50	280	75	45,00	35,00	6	81369	



Expo 25 Pcs

Cont.	Nº Art.	€
Machos / Taps / Tarauds DIN 376: M4-M5-M6-M8- M10 (5 pcs x M)	39000	



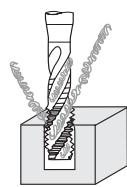
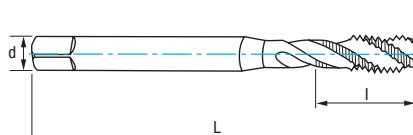
Ref. **3150**

MACHO HELICOIDAL MÁQUINA MÉTRICA MANGO REFORZADO

Reinforced Shank Metric Machine Spiral Tap
Taraud hélicoïdal machine métrique queue renforcée



a



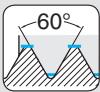
HSSE
5% Co

DIN
371

Reforzado
Reinforced
Renforcée



α
 $10^\circ \pm 2$



Aceros
 $<850 \text{ N/mm}^2$
Steel / Aciers

Cobre
Copper
Cuivre

Aluminio
Aluminium



M	P	L mm	I mm	d mm	a mm	z	Nº Art.	€
M3	0,50	56	5	3,50	2,70	3	63050	
M3,5	0,60	56	6	4,00	3,00	3	63053	
M4	0,70	63	7	4,50	3,40	3	63056	
M5	0,80	70	8	6,00	4,90	3	63059	
M6	1,00	80	10	6,00	4,90	3	63062	
M7	1,00	80	10	7,00	5,50	3	63065	
M8	1,25	90	13	8,00	6,20	3	63071	
M9	1,25	90	13	9,00	7,00	3	67882	
M10	1,50	100	15	10,00	8,00	3	63083	



Expo 25 Pcs

Cont. Ø	Nº Art.	€
Machos / Taps / Tarauds DIN 371: M4-M5-M6-M8- M10 (5 pcs x M)	38999	

Set Ref. 3150



7 Pcs

Set Ref. 3150
+ 1010 HSS



14 Pcs

Set Ref. 3150
+ 1016 HSSE



14 Pcs

Cont. Ø	Nº Art.	€	Cont. Ø	Nº Art.	€	Cont. Ø	Nº Art.	€
Machos / Taps / Tarauds DIN 371: M3-M4-M5-M6- M8-M10 + DIN 376: M12	43353		Machos / Taps / Tarauds DIN 371: M3-M4-M5-M6- M8-M10 + DIN 376: M12	43359		Machos / Taps / Tarauds DIN 371: M3-M4-M5-M6- M8-M10 + DIN 376: M12	21802	

Brocas / Drill Bits / Forets
HSS: 2,5-3,3-4,2-5,0-6,8-8,5-10,2

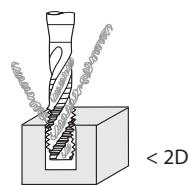
Brocas / Drill Bits / Forets
HSSE: 2,5-3,3-4,2-5,0-6,8-8,5-10,2

Ref. 3250

MACHO HELICOIDAL MÁQUINA MÉTRICA / MÉTRICA FINA

Metric / Metric Fine Machine Spiral Tap

Taraud hélicoïdal machine métrique / métrique pas fin



HSSE
5% Co

M
DIN
376

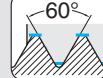
MF
DIN 374

C
2-3h
~~~~~

Tol.  
6H



$10^\circ \pm 2$



**Aceros**  
 $<850 \text{ N/mm}^2$   
Steel / Aciers

**Cobre**  
Copper  
Cuivre

**Aluminio**  
Aluminium



| M/MF                                        | P           | L<br>mm     | l<br>mm | d<br>mm | a<br>mm | Z     | Nº<br>Art. | €     |
|---------------------------------------------|-------------|-------------|---------|---------|---------|-------|------------|-------|
| <b>M3</b>                                   | <b>0,50</b> | 56          | 5       | 2,20    |         | 3     | 70063      |       |
| <b>M4</b>                                   | <b>0,70</b> | 63          | 7       | 2,80    | 2,10    | 3     | 70065      |       |
| <b>M5</b>                                   | <b>0,80</b> | 70          | 8       | 3,50    | 2,70    | 3     | 70066      |       |
| <b>M6</b>                                   | <b>1,00</b> | 80          | 10      | 4,50    | 3,40    | 3     | 70068      |       |
| MF8                                         | 1,00        | 90          | 13      | 6,00    | 4,90    | 3     | 70228      |       |
| <b>M8</b>                                   | <b>1,25</b> | 90          | 13      | 6,00    | 4,90    | 3     | 70069      |       |
| MF10                                        | 1,00        | 90          | 12      | 7,00    | 5,50    | 3     | 70230      |       |
| MF10                                        | 1,25        | 100         | 15      | 7,00    | 5,50    | 3     | 70231      |       |
| <b>M10</b>                                  | <b>1,50</b> | 100         | 15      | 7,00    | 5,50    | 3     | 70071      |       |
| MF12                                        | 1,00        | 100         | 14      | 9,00    | 7,00    | 3     | 70233      |       |
| MF12                                        | 1,25        | 100         | 14      | 9,00    | 7,00    | 3     | 70234      |       |
| MF12                                        | 1,50        | 100         | 14      | 9,00    | 7,00    | 3     | 70236      |       |
| <b>M12</b>                                  | <b>1,75</b> | 110         | 18      | 9,00    | 7,00    | 3     | 70161      |       |
| MF14                                        | 1,25        | 100         | 16      | 11,00   | 9,00    | 3     | 70237      |       |
| MF14                                        | 1,50        | 100         | 16      | 11,00   | 9,00    | 3     | 70239      |       |
| <b>M14</b>                                  | <b>2,00</b> | 110         | 20      | 11,00   | 9,00    | 3     | 70162      |       |
| MF16                                        | 1,50        | 100         | 16      | 12,00   | 9,00    | 3     | 70240      |       |
| <b>M16</b>                                  | <b>2,00</b> | 110         | 20      | 12,00   | 9,00    | 4     | 70164      |       |
| MF18                                        | 1,50        | 110         | 20      | 14,00   | 11,00   | 4     | 70242      |       |
| <b>M18</b>                                  | <b>2,50</b> | 125         | 25      | 14,00   | 11,00   | 4     | 75057      |       |
| MF20                                        | 1,50        | 125         | 20      | 16,00   | 12,00   | 4     | 70243      |       |
| <b>M20</b>                                  | <b>2,50</b> | 140         | 25      | 16,00   | 12,00   | 4     | 70167      |       |
| MF22                                        | 1,50        | 125         | 20      | 18,00   | 14,50   | 4     | 75192      |       |
| <b>M22</b>                                  | <b>2,50</b> | 140         | 25      | 18,00   | 14,50   | 4     | 70206      |       |
| MF24                                        | 1,50        | 140         | 22      | 18,00   | 14,50   | 4     | 70245      |       |
| MF24                                        | 2,00        | 140         | 28      | 18,00   | 14,50   | 4     | 24326      |       |
| <b>M24</b>                                  | <b>3,00</b> | 160         | 30      | 18,00   | 14,50   | 4     | 70207      |       |
| <span style="color:red;">(New!)</span> MF27 | 2,00        | 140         | 28      | 20,00   | 16,00   | 4     | 71566      |       |
|                                             | <b>M27</b>  | <b>3,00</b> | 160     | 30      | 20,00   | 16,00 | 4          | 70209 |
| MF30                                        | 1,50        | 150         | 28      | 22,00   | 18,00   | 4     | 70246      |       |
| <b>M30</b>                                  | <b>3,50</b> | 180         | 35      | 22,00   | 18,00   | 4     | 70210      |       |



Expo 25 Pcs

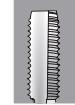
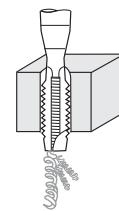
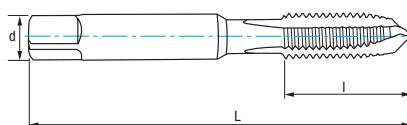
| Cont. Ø                                                             | Nº Art. | € |
|---------------------------------------------------------------------|---------|---|
| Machos / Taps / Tarauds<br>DIN 376: M4-M5-M6-M8-<br>M10 (5 pcs x M) | 39001   |   |

Ref. **3119**

## MACHO RECTO MÁQUINA MÉTRICA ISO MANGO REFORZADO

Reinforced Shank ISO Standard Metric Machine Straight Tap

Taraud droit machine métrique norme ISO queue renforcée



**HSSE**  
5% Co

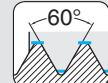
**ISO**  
529



**Tol.**  
6H



**$\alpha$**   
 $10^\circ \pm 2$



**Aceros**  
 $<850 \text{ N/mm}^2$   
Steel / Aciers

**Cobre**  
Copper  
Cuivre

**Aluminio**  
Aluminium



| M          | P           | L<br>mm | I<br>mm | d<br>mm | a<br>mm | z | Nº<br>Art. | € |
|------------|-------------|---------|---------|---------|---------|---|------------|---|
| <b>M3</b>  | <b>0,50</b> | 48      | 11      | 3,15    | 2,50    | 3 | 69558      |   |
| <b>M4</b>  | <b>0,70</b> | 53      | 13      | 4,00    | 3,15    | 3 | 69567      |   |
| <b>M5</b>  | <b>0,80</b> | 58      | 16      | 5,00    | 4,00    | 3 | 69575      |   |
| <b>M6</b>  | <b>1,00</b> | 66      | 19      | 6,30    | 5,00    | 3 | 69582      |   |
| <b>M8</b>  | <b>1,25</b> | 72      | 22      | 8,00    | 6,30    | 3 | 69586      |   |
| <b>M10</b> | <b>1,50</b> | 80      | 24      | 10,00   | 8,00    | 3 | 69588      |   |

Línea 33 cm  
**3119**

## MACHO RECTO MÁQUINA MÉTRICA ISO MANGO REFORZADO

Reinforced Shank ISO Standard Metric Machine Straight Tap

Taraud droit machine métrique norme ISO queue renforcée



| ø   | M3 | M5 | M6 | M8 | M10 |
|-----|----|----|----|----|-----|
| Pcs | 3  | 3  | 3  | 3  | 3   |

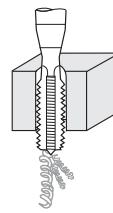
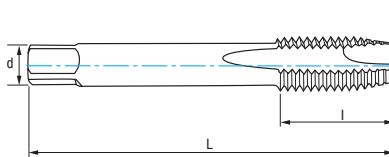
Ref. 4995 - Nº Art. 70993: €



Ref. **3217**

## MACHO RECTO MÁQUINA MÉTRICA NORMA ISO

ISO Standard Metric Machine Straight Tap  
Taraud droit machine métrique norme ISO



**HSSE**  
5% Co

**ISO**  
529

**B**  
4-5h

Tol.  
6H

GUN

$\alpha$   
 $10^\circ \pm 2$

$60^\circ$

**Aceros**  
 $<850 \text{ N/mm}^2$   
Steel / Aciers

**Cobre**  
Copper  
Cuivre

**Aluminio**  
Aluminium



| M          | P           | L<br>mm | I<br>mm | d<br>mm | a<br>mm | Z | Nº<br>Art. | € |
|------------|-------------|---------|---------|---------|---------|---|------------|---|
| <b>M12</b> | <b>1,75</b> | 89      | 29      | 9,00    | 7,10    | 3 | 69607      |   |
| <b>M14</b> | <b>2,00</b> | 95      | 30      | 11,20   | 9,00    | 3 | 69608      |   |
| <b>M16</b> | <b>2,00</b> | 102     | 32      | 12,50   | 10,00   | 3 | 69610      |   |
| <b>M18</b> | <b>2,50</b> | 112     | 37      | 14,00   | 11,20   | 3 | 69611      |   |
| <b>M20</b> | <b>2,50</b> | 112     | 37      | 14,00   | 11,20   | 3 | 69613      |   |
| <b>M22</b> | <b>2,50</b> | 118     | 38      | 16,00   | 12,50   | 3 | 69614      |   |
| <b>M24</b> | <b>3,00</b> | 130     | 45      | 18,00   | 14,00   | 3 | 69616      |   |
| <b>M27</b> | <b>3,00</b> | 135     | 45      | 20,00   | 16,00   | 3 | 69617      |   |
| <b>M30</b> | <b>3,50</b> | 138     | 48      | 20,00   | 16,00   | 3 | 69619      |   |

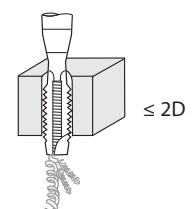
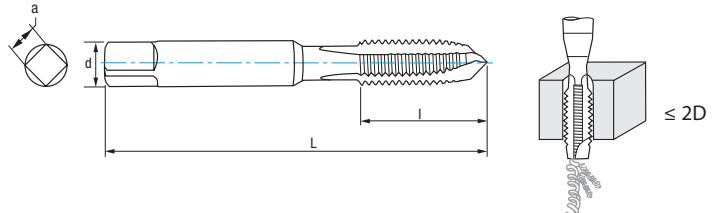


Ref. **3109**

## MACHO RECTO MÁQUINA MÉTRICA ISO MANGO REFORZADO

Reinforced Shank ISO Standard Metric Machine Straight Tap

Taraud droit machine métrique norme ISO queue renforcée



**HSS**

**ISO  
529**

**B  
4-5h**

**Tol.  
6H**

**GUN**

**$\alpha$   
 $10^\circ \pm 2$**

**Aceros  
<850 N/mm<sup>2</sup>  
Steel / Aciers**

**Cobre  
Copper  
Cuivre**

**Aluminio  
Aluminium**



| M          | P           | L<br>mm | I<br>mm | d<br>mm | a<br>mm | z | Nº<br>Art. | € |
|------------|-------------|---------|---------|---------|---------|---|------------|---|
| <b>M3</b>  | <b>0,50</b> | 48      | 11      | 3,15    | 2,50    | 3 | 38180      |   |
| <b>M4</b>  | <b>0,70</b> | 53      | 13      | 4,00    | 3,15    | 3 | 38182      |   |
| <b>M5</b>  | <b>0,80</b> | 58      | 16      | 5,00    | 4,00    | 3 | 38373      |   |
| <b>M6</b>  | <b>1,00</b> | 66      | 19      | 6,30    | 5,00    | 3 | 38185      |   |
| <b>M8</b>  | <b>1,25</b> | 72      | 22      | 8,00    | 6,30    | 3 | 38187      |   |
| <b>M10</b> | <b>1,50</b> | 80      | 24      | 10,00   | 8,00    | 3 | 38188      |   |

Línea 33 cm  
**3109**

## MACHO RECTO MÁQUINA MÉTRICA ISO MANGO REFORZADO

Reinforced Shank ISO Standard Metric Machine Straight Tap

Taraud droit machine métrique norme ISO queue renforcée



| ø   | <b>M3</b> | <b>M5</b> | <b>M6</b> | <b>M8</b> | <b>M10</b> |
|-----|-----------|-----------|-----------|-----------|------------|
| Pcs | 3         | 3         | 3         | 3         | 3          |

Ref. 4995 - Nº Art. 71560: €

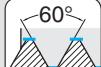
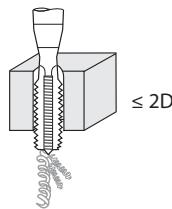
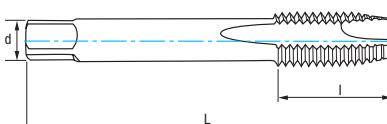


Ref. **3207**

## MACHO RECTO MÁQUINA MÉTRICA NORMA ISO

ISO Standard Metric Machine Straight Tap

Taraud droit machine métrique norme ISO



Aceros  
<850 N/mm<sup>2</sup>  
Steel / Aciers

Cobre  
Copper  
Cuivre

Aluminio  
Aluminium



| M          | P           | L mm | I mm | d mm  | a mm  | z | Nº Art. | € |
|------------|-------------|------|------|-------|-------|---|---------|---|
| <b>M12</b> | <b>1,75</b> | 89   | 29   | 9,00  | 7,10  | 3 | 38189   |   |
| <b>M14</b> | <b>2,00</b> | 95   | 30   | 11,20 | 9,00  | 3 | 38190   |   |
| <b>M16</b> | <b>2,00</b> | 102  | 32   | 12,50 | 10,00 | 3 | 38191   |   |
| <b>M18</b> | <b>2,50</b> | 112  | 37   | 14,00 | 11,20 | 3 | 38192   |   |
| <b>M20</b> | <b>2,50</b> | 112  | 37   | 14,00 | 11,20 | 3 | 38193   |   |
| <b>M22</b> | <b>2,50</b> | 118  | 38   | 16,00 | 12,50 | 3 | 38194   |   |
| <b>M24</b> | <b>3,00</b> | 130  | 45   | 18,00 | 14,00 | 3 | 38195   |   |
| <b>M27</b> | <b>3,00</b> | 135  | 45   | 20,00 | 16,00 | 3 | 38196   |   |
| <b>M30</b> | <b>3,50</b> | 138  | 48   | 20,00 | 16,00 | 3 | 38197   |   |

Línea 33 cm  
**3207**

## MACHO RECTO MÁQUINA MÉTRICA NORMA ISO

ISO Standard Metric Machine Straight Tap

Taraud droit machine métrique norme ISO



| ø   | M12 | M14 | M16 | M18 | M20 |
|-----|-----|-----|-----|-----|-----|
| Pcs | 3   | 3   | 3   | 3   | 3   |

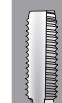
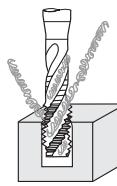
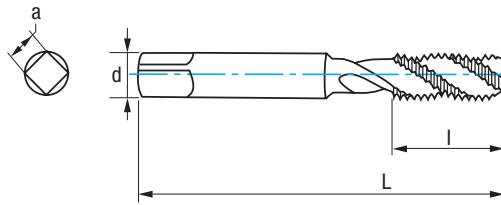
Ref. 4995 - Nº Art. 71563: €



Ref. **3157**

## MACHO HELICOIDAL MÁQUINA MÉTRICA ISO M. REFORZADO

Reinforced Shank ISO Standard Metric Machine Spiral Tap  
Taraud hélicoïdal machine métrique norme ISO queue renforcée



HSS

ISO  
529



Tol.  
6H

$\alpha$   
12-14°



60°

Aceros  
<850 N/mm<sup>2</sup>  
Steel / Aciers

Cobre  
Copper  
Cuivre

Aluminio  
Aluminium



| M          | P           | L<br>mm | I<br>mm | d<br>mm | a<br>mm | z | Nº<br>Art. | € |
|------------|-------------|---------|---------|---------|---------|---|------------|---|
| <b>M3</b>  | <b>0,50</b> | 48      | 11      | 3,15    | 2,50    | 3 | 38198      |   |
| <b>M4</b>  | <b>0,70</b> | 53      | 13      | 4,00    | 3,15    | 3 | 38201      |   |
| <b>M5</b>  | <b>0,80</b> | 58      | 16      | 5,00    | 4,00    | 3 | 38206      |   |
| <b>M6</b>  | <b>1,00</b> | 66      | 19      | 6,30    | 5,00    | 3 | 38209      |   |
| <b>M8</b>  | <b>1,25</b> | 72      | 22      | 8,00    | 6,30    | 3 | 38214      |   |
| <b>M10</b> | <b>1,50</b> | 80      | 24      | 10,00   | 8,00    | 3 | 38216      |   |

Línea 33 cm  
**3157**

## MACHO HELICOIDAL MÁQUINA MÉTRICA ISO M. REFORZADO

Reinforced Shank ISO Standard Metric Machine Spiral Tap  
Taraud hélicoïdal machine métrique norme ISO queue renforcée



| ø   | M3 | M5 | M6 | M8 | M10 |
|-----|----|----|----|----|-----|
| Pcs | 3  | 3  | 3  | 3  | 3   |

Ref. 4995 - Nº Art. 70997: €

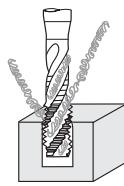
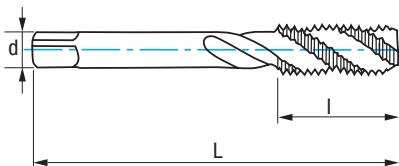


# Ref. 3247

## MACHO HELICOIDAL MÁQUINA MÉTRICA NORMA ISO

ISO Standard Metric Machine Spiral Tap

Taraud hélicoïdal machine métrique norme ISO



HSS

ISO  
529



Tol.  
6H

$\alpha$   
12-14°



Aceros  
 $<850 \text{ N/mm}^2$   
Steel / Aciers

Cobre  
Copper  
Cuivre

Aluminio  
Aluminium



| M   | P    | L<br>mm | t<br>mm | d<br>mm | a<br>mm | z | Nº<br>Art. | € |
|-----|------|---------|---------|---------|---------|---|------------|---|
| M12 | 1,75 | 89      | 29      | 9,00    | 7,10    | 3 | 38226      |   |
| M14 | 2,00 | 95      | 30      | 11,20   | 9,00    | 3 | 38228      |   |
| M16 | 2,00 | 102     | 32      | 12,50   | 10,00   | 3 | 38229      |   |

## Línea 33 cm 3247

## MACHO HELICOIDAL MÁQUINA MÉTRICA NORMA ISO

ISO Standard Metric Machine Spiral Tap

Taraud hélicoïdal machine métrique norme ISO



| ø   | M12 | M14 | M16 |
|-----|-----|-----|-----|
| Pcs | 3   | 3   | 3   |

Ref. 4995 - Nº Art. 72127:

€



# Ref. 3500

## COJINETE MANO MÉTRICA / MÉTRICA FINA

Metric / Metric Fine Hand Die  
Filière à main métrique / métrique pas fin



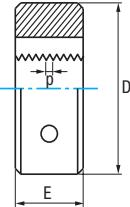
HSS

DIN  
223

Tol.  
6g

$\alpha$   
10-17°

**Chafán Entrada 1,75h**  
Chamfer 1,75 Threads  
Chanfrein 1,75 filets



| M/MF        | P           | D<br>mm | E<br>mm | Nº<br>Art. | € |
|-------------|-------------|---------|---------|------------|---|
| <b>M2</b>   | <b>0,40</b> | 16      | 5       | 63191      |   |
| <b>M2,5</b> | <b>0,45</b> | 16      | 5       | 75001      |   |
| <b>M3</b>   | <b>0,50</b> | 20      | 5       | 63194      |   |
| <b>M3,5</b> | <b>0,60</b> | 20      | 5       | 63197      |   |
| MF4         | 0,50        | 20      | 5       | 77025      |   |
| <b>M4</b>   | <b>0,70</b> | 20      | 5       | 63200      |   |
| <b>M4,5</b> | <b>0,75</b> | 20      | 7       | 77028      |   |
| MF5         | 0,50        | 20      | 5       | 77029      |   |
| <b>M5</b>   | <b>0,80</b> | 20      | 7       | 63203      |   |
| MF6         | 0,50        | 20      | 5       | 77034      |   |
| MF6         | 0,75        | 20      | 7       | 77035      |   |
| <b>M6</b>   | <b>1,00</b> | 20      | 7       | 63206      |   |
| MF7         | 0,75        | 25      | 9       | 77037      |   |
| <b>M7</b>   | <b>1,00</b> | 25      | 9       | 63209      |   |
| MF8         | 0,50        | 25      | 9       | 77038      |   |
| MF8         | 0,75        | 25      | 9       | 77039      |   |
| MF8         | 1,00        | 25      | 9       | 63212      |   |
| <b>M8</b>   | <b>1,25</b> | 25      | 9       | 63215      |   |
| MF9         | 1,00        | 25      | 9       | 77041      |   |
| <b>M9</b>   | <b>1,25</b> | 25      | 9       | 63218      |   |
| MF10        | 0,75        | 30      | 11      | 77043      |   |
| MF10        | 1,00        | 30      | 11      | 63221      |   |
| MF10        | 1,25        | 30      | 11      | 63224      |   |
| <b>M10</b>  | <b>1,50</b> | 30      | 11      | 63227      |   |
| MF11        | 1,00        | 30      | 11      | 77045      |   |
| MF11        | 1,25        | 30      | 11      | 77046      |   |
| <b>M11</b>  | <b>1,50</b> | 30      | 11      | 63230      |   |
| MF12        | 1,00        | 38      | 10      | 63233      |   |
| MF12        | 1,25        | 38      | 10      | 63236      |   |
| MF12        | 1,50        | 38      | 10      | 63239      |   |
| <b>M12</b>  | <b>1,75</b> | 38      | 14      | 63242      |   |
| MF13        | 1,00        | 38      | 10      | 77049      |   |
| MF13        | 1,50        | 38      | 10      | 77050      |   |
| MF14        | 1,00        | 38      | 10      | 63251      |   |
| MF14        | 1,25        | 38      | 10      | 63254      |   |
| MF14        | 1,50        | 38      | 10      | 63257      |   |
| <b>M14</b>  | <b>2,00</b> | 38      | 14      | 63260      |   |
| MF15        | 1,00        | 38      | 10      | 75307      |   |
| MF15        | 1,50        | 38      | 10      | 77053      |   |
| MF16        | 1,00        | 45      | 14      | 63266      |   |
| MF16        | 1,25        | 45      | 14      | 77054      |   |
| MF16        | 1,50        | 45      | 14      | 63269      |   |
| <b>M16</b>  | <b>2,00</b> | 45      | 18      | 63272      |   |
| MF18        | 1,00        | 45      | 14      | 77057      |   |
| MF18        | 1,25        | 45      | 14      | 77058      |   |
| MF18        | 1,50        | 45      | 14      | 63278      |   |
| MF18        | 2,00        | 45      | 14      | 63281      |   |
| <b>M18</b>  | <b>2,50</b> | 45      | 18      | 63284      |   |
| MF20        | 1,00        | 45      | 14      | 77061      |   |
| MF20        | 1,50        | 45      | 14      | 63287      |   |

| M/MF       | P           | D<br>mm | E<br>mm | Nº<br>Art. | € |
|------------|-------------|---------|---------|------------|---|
| MF20       | 2,00        | 45      | 14      | 63290      |   |
| <b>M20</b> | <b>2,50</b> | 45      | 18      | 63293      |   |
| MF22       | 1,00        | 55      | 16      | 77066      |   |
| MF22       | 1,50        | 55      | 16      | 63296      |   |
| MF22       | 2,00        | 55      | 16      | 63299      |   |
| <b>M22</b> | <b>2,50</b> | 55      | 22      | 63302      |   |
| MF24       | 1,00        | 55      | 16      | 77069      |   |
| MF24       | 1,50        | 55      | 16      | 77070      |   |
| MF24       | 2,00        | 55      | 16      | 63308      |   |
| <b>M24</b> | <b>3,00</b> | 55      | 22      | 63311      |   |
| MF25       | 1,00        | 55      | 16      | 77072      |   |
| MF25       | 1,50        | 55      | 16      | 77073      |   |
| MF26       | 1,00        | 55      | 16      | 77075      |   |
| MF26       | 1,50        | 55      | 16      | 77076      |   |
| MF27       | 1,00        | 65      | 18      | 70103      |   |
| MF27       | 1,50        | 65      | 18      | 77656      |   |
| MF27       | 2,00        | 65      | 18      | 77079      |   |
| <b>M27</b> | <b>3,00</b> | 65      | 25      | 63314      |   |
| MF28       | 1,50        | 65      | 18      | 77081      |   |
| MF30       | 1,00        | 65      | 18      | 77082      |   |
| MF30       | 1,50        | 65      | 18      | 77083      |   |
| MF30       | 2,00        | 65      | 18      | 75310      |   |
| <b>M30</b> | <b>3,50</b> | 65      | 25      | 63317      |   |
| MF32       | 1,50        | 65      | 18      | 77085      |   |
| MF33       | 1,50        | 65      | 18      | 77088      |   |
| MF33       | 2,00        | 65      | 18      | 77089      |   |
| <b>M33</b> | <b>3,50</b> | 65      | 25      | 77090      |   |
| MF35       | 1,50        | 65      | 18      | 77093      |   |
| MF36       | 1,50        | 65      | 18      | 75311      |   |
| MF36       | 2,00        | 65      | 18      | 77095      |   |
| MF36       | 3,00        | 65      | 25      | 77096      |   |
| <b>M36</b> | <b>4,00</b> | 65      | 25      | 77097      |   |
| <b>M39</b> | <b>4,00</b> | 75      | 30      | 77103      |   |
| MF40       | 1,50        | 75      | 20      | 77104      |   |
| MF40       | 2,00        | 75      | 20      | 77105      |   |
| MF40       | 3,00        | 75      | 30      | 70104      |   |
| MF42       | 2,00        | 75      | 20      | 77108      |   |
| MF42       | 3,00        | 75      | 30      | 70106      |   |
| <b>M42</b> | <b>4,50</b> | 75      | 30      | 77110      |   |
| MF45       | 1,50        | 90      | 22      | 77112      |   |
| MF45       | 2,00        | 90      | 22      | 77113      |   |
| MF45       | 3,00        | 90      | 36      | 77114      |   |
| <b>M45</b> | <b>4,50</b> | 90      | 36      | 77115      |   |
| MF48       | 1,50        | 90      | 22      | 70107      |   |
| MF48       | 3,00        | 90      | 36      | 35159      |   |
| <b>M48</b> | <b>5,00</b> | 90      | 36      | 77119      |   |
| MF50       | 1,50        | 90      | 22      | 77120      |   |
| MF52       | 1,50        | 90      | 22      | 77121      |   |
| <b>M52</b> | <b>5,00</b> | 90      | 36      | 77124      |   |



# Sets 3500

## COJINETE MANO MÉTRICA

Metric Hand Die  
Filière à main métrique



7 Pcs

| Cont. Ø                                                            | Nº Art. | € |
|--------------------------------------------------------------------|---------|---|
| Cojinetes / Dies / Filières<br>DIN 223: M3-M4-M5-M6-<br>M8-M10-M12 | 56518   |   |

# Línea 33 cm 3500

## COJINETE MANO MÉTRICA

Metric Hand Die  
Filière à main métrique



| Ø   | M4 | M5 | M6 | M8 | M10 | M12 |
|-----|----|----|----|----|-----|-----|
| Pcs | 2  | 2  | 2  | 2  | 2   | 2   |

Ref. 4995 - Nº Art. 71001      €



# Ref. 3005

## TERRAJA MONOBLOCK METAL

METAL Monoblock Die  
Filière monoblock MÉTAL



**HSS**    **DIN 223**    **Mano Hand Main**    **Tol. 6g**     **$\alpha$  10-17°**    **Con Guía Guided Avec Guide**

| M          | P           | D mm | Nº Art. | € |
|------------|-------------|------|---------|---|
| <b>M3</b>  | <b>0,50</b> | 20   | 25226   |   |
| <b>M4</b>  | <b>0,70</b> | 20   | 25227   |   |
| <b>M5</b>  | <b>0,80</b> | 20   | 25228   |   |
| <b>M6</b>  | <b>1,00</b> | 20   | 25229   |   |
| <b>M8</b>  | <b>1,25</b> | 25   | 25231   |   |
| <b>M10</b> | <b>1,50</b> | 30   | 25233   |   |
| <b>M12</b> | <b>1,75</b> | 38   | 25581   |   |

**Display  
43**



| Ref.<br>3005 | Ø   | M-4 | M-5 | M-6 | M-8 | M-10 | M-12 |
|--------------|-----|-----|-----|-----|-----|------|------|
|              | Pcs | 2   | 2   | 2   | 2   | 2    | 2    |

Ref. 4995 - Nº Art. 32964:      €

# Ref. 3006

## JUEGO TERRAJAS MONOBLOCK Y MACHOS MANO

Monoblock Die & Hand Tap Set  
Jeu filières monoblock & tarauds à main

**30 Pcs**

| Cont.                                             | Nº Art.                               | €     |
|---------------------------------------------------|---------------------------------------|-------|
| Juegos Machos<br>Tap Sets / Jeux Tarauds          | M3 - M4 - M5 - M6 - M8 -<br>M10 - M12 |       |
| Terrajas / Dies / Filières<br>Monoblock Ref. 3005 | M3 - M4 - M5 - M6 - M8 -<br>M10 - M12 | 78141 |
| Gira-Machos<br>Tap-Wrench / Porte-Tarauds         | M1 - M12                              |       |
| Galga<br>Gauge / Gabarit                          | 1 pc                                  |       |



# Ref. 3536

## COJINETE MANO MÉTRICA / MÉTRICA FINA INOX

Stainless Metric / Metric Fine Hand Die

Filière à main métrique / métrique pas fin inox



**HSSE  
5% Co**

DIN  
22568

Tol.  
6g

Métrica

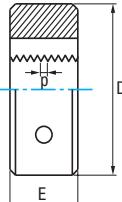
$\alpha$   
20°



**Aceros  
Steels  
Aciers**

**INOX  
Stainless Steel  
Acier INOX**

**Chaflán Entrada 2,25h  
Chamfer 2,25 Threads  
Chanfrein 2,25 filets**



| M          | P    | D<br>mm | E<br>mm | Nº<br>Art. | € |
|------------|------|---------|---------|------------|---|
| <b>M3</b>  | 0,50 | 20      | 5       | 34255      |   |
| <b>M4</b>  | 0,70 | 20      | 5       | 34256      |   |
| <b>M5</b>  | 0,80 | 20      | 7       | 34257      |   |
| <b>M6</b>  | 1,00 | 20      | 7       | 34258      |   |
| <b>M7</b>  | 1,00 | 25      | 9       | 55515      |   |
| <b>M8</b>  | 1,25 | 25      | 9       | 34259      |   |
| MF10       | 0,75 | 30      | 11      | 81370      |   |
| MF10       | 1,00 | 30      | 11      | 81371      |   |
| MF10       | 1,25 | 30      | 11      | 81372      |   |
| <b>M10</b> | 1,50 | 30      | 11      | 34260      |   |
| MF12       | 1,00 | 38      | 10      | 81373      |   |
| MF12       | 1,25 | 38      | 10      | 81374      |   |
| MF12       | 1,50 | 38      | 10      | 81375      |   |
| <b>M12</b> | 1,75 | 38      | 14      | 34261      |   |
| MF14       | 1,00 | 38      | 10      | 81376      |   |
| MF14       | 1,50 | 38      | 10      | 81377      |   |
| <b>M14</b> | 2,00 | 38      | 14      | 34262      |   |
| MF15       | 1,00 | 38      | 10      | 81378      |   |
| MF16       | 1,00 | 45      | 14      | 81379      |   |

| M          | P    | D<br>mm | E<br>mm | Nº<br>Art. | € |
|------------|------|---------|---------|------------|---|
| MF16       | 1,50 | 45      | 14      | 81380      |   |
| <b>M16</b> | 2,00 | 45      | 18      | 34263      |   |
| MF17       | 1,00 | 45      | 14      | 81381      |   |
| MF18       | 1,00 | 45      | 14      | 81382      |   |
| MF18       | 1,50 | 45      | 14      | 81383      |   |
| MF18       | 2,00 | 45      | 14      | 81384      |   |
| <b>M18</b> | 2,50 | 45      | 18      | 34264      |   |
| MF20       | 1,00 | 45      | 14      | 81385      |   |
| MF20       | 1,50 | 45      | 14      | 81386      |   |
| MF20       | 2,00 | 45      | 14      | 81387      |   |
| <b>M20</b> | 2,50 | 45      | 18      | 34265      |   |
| MF22       | 1,00 | 55      | 16      | 81388      |   |
| MF22       | 1,50 | 55      | 16      | 81389      |   |
| MF22       | 2,00 | 55      | 16      | 81390      |   |
| <b>M22</b> | 2,50 | 55      | 22      | 81391      |   |
| MF24       | 1,50 | 55      | 16      | 81392      |   |
| <b>M24</b> | 3,00 | 55      | 22      | 81393      |   |
| <b>M27</b> | 3,00 | 65      | 25      | 81394      |   |
| <b>M30</b> | 3,50 | 65      | 25      | 81395      |   |
| <b>M33</b> | 3,50 | 65      | 25      | 83117      |   |



**Set 7 Pcs**

| Cont.                                                              | Nº Art. | € |
|--------------------------------------------------------------------|---------|---|
| Cojinetes / Dies / Filières<br>DIN 223: M3-M4-M5-M6-M8-<br>M10-M12 | 76494   |   |

Línea 33 cm  
**3536**

## COJINETE MANO MÉTRICA INOX

STAINLESS Metric Hand Die  
Filière à main métrique INOX



20  
cm

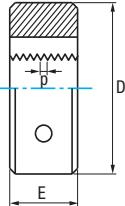
| Ø   | M4 | M5 | M6 | M8 | M10 | M12 |
|-----|----|----|----|----|-----|-----|
| Pcs | 2  | 2  | 2  | 2  | 2   | 2   |

Ref. 4995 - Nº Art. 71005: €

# Ref. 3510

## COJINETE MANO MÉTRICA ISO

ISO Metric Hand Die  
Filière à main métrique ISO



HSS

ISO  
529

Ajustable  
BS 1127 A  
Adjustable

$\alpha$   
10-17°

Forma  
A  
Form

Tol.  
6g



| M   | P    | D mm | E mm | Nº Art. | € |
|-----|------|------|------|---------|---|
| M3  | 0,50 | 25,4 | 9,5  | 38230   |   |
| M4  | 0,70 | 25,4 | 9,5  | 38231   |   |
| M5  | 0,80 | 25,4 | 9,5  | 38232   |   |
| M6  | 1,00 | 25,4 | 9,5  | 38233   |   |
| M7  | 1,00 | 25,4 | 9,5  | 38234   |   |
| M8  | 1,25 | 25,4 | 9,5  | 38235   |   |
| M10 | 1,50 | 25,4 | 9,5  | 38237   |   |
| M12 | 1,75 | 25,4 | 9,5  | 38238   |   |

| M   | P    | D mm | E mm | Nº Art. | € |
|-----|------|------|------|---------|---|
| M8  | 1,25 | 38,1 | 12,7 | 38239   |   |
| M10 | 1,50 | 38,1 | 12,7 | 38240   |   |
| M12 | 1,75 | 38,1 | 12,7 | 38242   |   |
| M14 | 2,00 | 38,1 | 12,7 | 38243   |   |
| M16 | 2,00 | 38,1 | 12,7 | 38244   |   |
| M18 | 2,50 | 38,1 | 12,7 | 38245   |   |
| M20 | 2,50 | 38,1 | 12,7 | 38246   |   |

| M   | P    | D mm | E mm | Nº Art. | € |
|-----|------|------|------|---------|---|
| M18 | 2,50 | 50,8 | 15,9 | 38250   |   |
| M20 | 2,50 | 50,8 | 15,9 | 38251   |   |
| M22 | 2,50 | 50,8 | 15,9 | 38252   |   |
| M24 | 3,00 | 50,8 | 15,9 | 38253   |   |

# Línea 33 cm 3510

## COJINETE MANO MÉTRICA ISO

ISO Metric Hand Die  
Filière à main métrique ISO



| ø   | M4x25,4 | M5x25,4 | M6x25,4 | M8x25,4 | M10x25,4 | M12x25,4 |
|-----|---------|---------|---------|---------|----------|----------|
| Pcs | 2       | 2       | 2       | 2       | 2        | 2        |

Ref. 4995 - Nº Art. 72129: €

# Ref. 3502

## COJINETE MANO WHITWORTH

Whitworth Hand Die  
Filière à main Whitworth



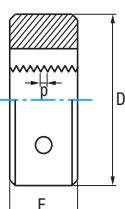
HSS

$\alpha$   
10-17°

W

DIN  
223

Chafán Entrada 1,75h  
Chamfer 1,75 Threads  
Chanfrein 1,75 Filets



| W     | Hilos<br>Threads<br>Filets | D mm | E mm | Nº Art. | € |
|-------|----------------------------|------|------|---------|---|
| W3/32 | 48                         | 16   | 5    | 63344   |   |
| W1/8  | 40                         | 20   | 5    | 63329   |   |
| W5/32 | 32                         | 20   | 7    | 63356   |   |
| W3/16 | 24                         | 20   | 7    | 63341   |   |
| W7/32 | 24                         | 20   | 7    | 63365   |   |
| W1/4  | 20                         | 20   | 7    | 63323   |   |
| W5/16 | 18                         | 25   | 9    | 63350   |   |
| W3/8  | 16                         | 30   | 11   | 63335   |   |

| W       | Hilos<br>Threads<br>Filets | D mm | E mm | Nº Art. | € |
|---------|----------------------------|------|------|---------|---|
| W7/16   | 14                         | 30   | 11   | 63362   |   |
| W1/2    | 12                         | 38   | 14   | 63320   |   |
| W9/16   | 12                         | 38   | 14   | 63368   |   |
| W5/8    | 11                         | 45   | 18   | 63347   |   |
| W3/4    | 10                         | 45   | 18   | 63332   |   |
| W7/8    | 9                          | 55   | 22   | 63359   |   |
| W1"     | 8                          | 55   | 22   | 63374   |   |
| W1" 1/8 | 7                          | 65   | 25   | 63383   |   |

# Ref. 3546

## COJINETE MANO BSP (GAS) INOX

Stainless BSP (Gas) Hand Die  
Filière à main BSP (Gaz) Inox



**HSSE**  
5% Co

Gas  
(BSP)

DIN  
24231

$\alpha$   
20°



Tol.  
A

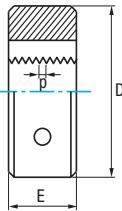
**Chaflán Entrada 2,25h**  
Chamfer 2,25 Threads  
Chanfrein 2,25 filets

**Aceros**  
Steels  
Aciers

**INOX**  
Stainless Steel  
Acier INOX



**Rosca británica para tubo paralelo (BSPP-GAS)**  
British Standard Parallel Pipe (BSPP-GAS)  
Filetage britannique pour tuyau parallèle (BSPP-GAS)



| G           | Hilos<br>Threads Filets | D<br>mm | E<br>mm | Nº<br>Art. | € |
|-------------|-------------------------|---------|---------|------------|---|
| <b>G1/8</b> | <b>28</b>               | 30      | 11      | 81341      |   |
| <b>G1/4</b> | <b>19</b>               | 38      | 10      | 81342      |   |
| <b>G3/8</b> | <b>19</b>               | 45      | 14      | 81343      |   |
| <b>G1/2</b> | <b>14</b>               | 45      | 14      | 81344      |   |
| <b>G3/4</b> | <b>14</b>               | 55      | 16      | 81345      |   |
| <b>G1"</b>  | <b>11</b>               | 65      | 18      | 81346      |   |

# Ref. 3506

## COJINETE MANO BSP (GAS)

BSP (Gas) Hand Die  
Filière à main BSP (Gaz)



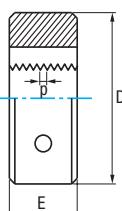
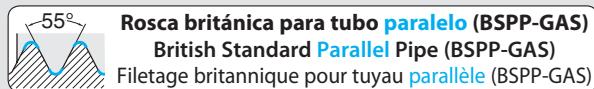
**HSS**

$\alpha$   
10-17°

Gas  
(BSP)

DIN  
24231

**Chaflán Entrada 1,75h**  
Chamfer 1,75 Threads  
Chanfrein 1,75 filets



| G              | Hilos<br>Threads Filets | D<br>mm | E<br>mm | Nº<br>Art. | € |
|----------------|-------------------------|---------|---------|------------|---|
| <b>G1/8</b>    | <b>28</b>               | 30      | 11      | 63461      |   |
| <b>G1/4</b>    | <b>19</b>               | 38      | 10      | 63455      |   |
| <b>G3/8</b>    | <b>19</b>               | 45      | 14      | 63467      |   |
| <b>G1/2</b>    | <b>14</b>               | 45      | 14      | 63452      |   |
| <b>G5/8</b>    | <b>14</b>               | 55      | 16      | 75496      |   |
| <b>G3/4</b>    | <b>14</b>               | 55      | 16      | 63464      |   |
| <b>G7/8</b>    | <b>14</b>               | 65      | 18      | 76252      |   |
| <b>G1"</b>     | <b>11</b>               | 65      | 18      | 63470      |   |
| <b>G1" 1/8</b> | <b>11</b>               | 75      | 20      | 76202      |   |
| <b>G1" 1/4</b> | <b>11</b>               | 75      | 20      | 76210      |   |
| <b>G1" 1/2</b> | <b>11</b>               | 90      | 22      | 76224      |   |

# Ref. 3191

## GIRA-MACHOS

Tap Wrench  
Porte-taraud



DIN  
1814



| Mod. | Uso<br>Use<br>Usage | L<br>mm | Cuadradillo<br>Square / Carré<br>mm | Nº<br>Art. | € |
|------|---------------------|---------|-------------------------------------|------------|---|
| 000  | M1-M8               | 125     | 2,10-4,90                           | 69826      |   |
| 010  | M1-M10              | 180     | 2,10-5,50                           | 69828      |   |
| 015  | M1-M12              | 200     | 2,10-7,00                           | 69829      |   |
| 020  | M4-M12              | 280     | 3,40-7,00                           | 69831      |   |
| 030  | M5-M20              | 375     | 4,90-12,00                          | 69832      |   |

| Mod.  | Uso<br>Use<br>Usage | L<br>mm | Cuadradillo<br>Square / Carré<br>mm | Nº<br>Art. | € |
|-------|---------------------|---------|-------------------------------------|------------|---|
| 040   | M11-M27             | 500     | 6,20-16,00                          | 69834      |   |
| 050   | M13-M32             | 750     | 7,00-20,00                          | 69835      |   |
| * 060 | M18-M42             | 870     | 7,00-28,00                          | 83111      |   |
| * 070 | M25-M52             | 1250    | 16,00-32,00                         | 26694      |   |

\* Acero / Steel / Acier

# Línea 33 cm 3191

## GIRA-MACHOS

Tap Wrench  
Porte-taraud



| Mod. | 000 | 010 | 015 | 020 | 030 |
|------|-----|-----|-----|-----|-----|
| Pcs  | 2   | 2   | 2   | 2   | 2   |

Ref. 4995 - Nº Art. 80556: €

# Ref. 3912

## GIRA-MACHOS CRIQUÉ

Tap Wrench  
Porte-taraud



"T" +  
Criqué

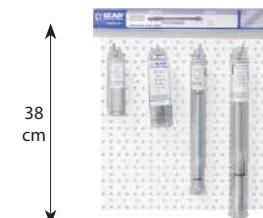


| Mod. | M      | L<br>mm | Cap.<br>mm | Nº<br>Art. | € |
|------|--------|---------|------------|------------|---|
| 01   | M3-M10 | 85      | 2,4-5,5    | 25340      |   |
| 02   | M5-M12 | 100     | 4,5-8,0    | 25341      |   |
| 10   | M3-M10 | 250     | 2,4-5,5    | 25342      |   |
| 20   | M5-M12 | 300     | 4,5-8,0    | 25343      |   |

# Línea 33 cm 3912

## GIRA-MACHOS CRIQUÉ

Tap Wrench  
Porte-taraud



| Mod. | 01 | 02 | 10 | 20 |
|------|----|----|----|----|
| Pcs  | 2  | 2  | 2  | 2  |

Ref. 4995 - Nº Art. 72135: €

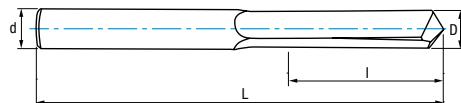
# Ref. 9016

## BROCA METAL DURO MATERIALES TEMPLADOS 65 HRC

65 HRC Hardened Materials Solid Carbide Drill Bit

Forêt carbure matériaux trempés 65 HRC

New!



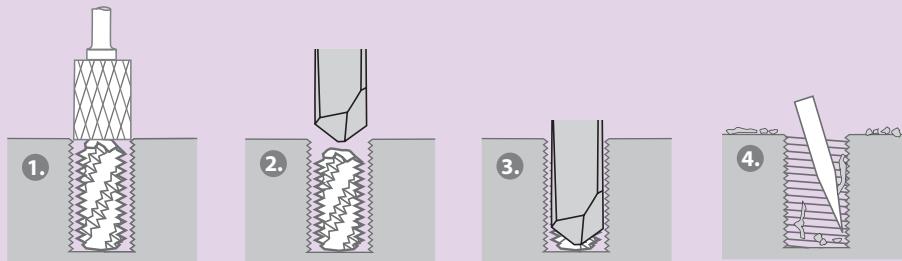
**MD / HM**  
Carbure  
Grano UF

**IZAR**  
Std.



**HRC**  
50-65

**Tol.**  
h6



### PROCEDIMIENTO PARA QUITAR MACHOS ROTOS:

#### 1. Macho roto

Si sobresale alguna parte del macho roto, alisarla para poder taladrarlo más fácilmente.

#### 2. Centrado de la broca

Colocar la broca sobre el centro del macho, fijando bien tanto la pieza de trabajo como la misma broca.

Sin lubricante, hacer un taladrado inicial de aproximación y retraer la broca rápidamente.

#### 3. Proceso de taladrado

Taladrar a velocidad y avance fijos, y con parones para evacuar la viruta. Utilizar lubricación.

#### 4. Sustraer el macho roto

Sustraer los restos del macho roto con un buril o instrumento similar.

### PROCEDURE FOR REMOVING BROKEN TAPS:

#### 1. Broken Tap

If any part of the broken tap is protruding, grind the surface in order to make it flat.

#### 2. Centering of the Drill

Position the drill bit on the center of the broken tap. Please make sure that both the workpiece and the tap are firmly secured. Make an initial drill approach and retract the drill bit quickly. Don't use any lubrication.

#### 3. Drilling

Drill the hole at a fixed speed and feed, stopping the process occasionally to remove the broken chips. Use lubrication in this step.

#### 4. Chip Removal

The parts of the broken tap can be removed using a scriber or a similar tool.

### PROCÉDURE POUR ENLEVER LES TARAUDS CASSÉS:

#### 1. Taraud cassé

Si une partie du taraud dépasse, laissez la surface endommagée du taraud au ras de la pièce pour la percer plus facilement.

#### 2. Centrage du foret

Placez le foret au centre du taraud. Assurez-vous que la pièce et le foret sont correctement centrés. Faites un premier perçage d'approximation, puis rétractez rapidement le foret. Pour cette étape, n'utilisez pas de lubrifiant.

#### 3. Processus de perçage

Percez le trou à vitesse et avance fixes, en arrêtant de temps en temps pour évacuer les copeaux. Utilisez du lubrifiant.

#### 4. Retirer les restes

Les restes peuvent être retirés en utilisant un burin ou similaire.

- Diseño especial para retirar machos rotos.
- Requiere una buena sujeción de pieza y cabezal rígido.
- No válido para extraer machos de laminación.

- Specifically designed for removing broken taps.
- It is recommended to use a proper fixing with an stable chuck.
- Not suitable for forming taps.

- Conception spéciale pour enlever les tarauds cassés.
- Nécessite un bon serrage de la pièce et une tête rigide.
- Non valide pour retirer les tarauds réfouleurs.

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Macho *<br>Tap - Taraud | Nº Art.<br>MD/HM | €     |
|---------|---------|---------|---------|-------------------------|------------------|-------|
| 2,00    | 3,00    | 38      | 10      | <b>M3</b>               | 1                | 58951 |
| 3,00    | 3,00    | 38      | 15      | <b>M4 - M5</b>          | 1                | 58954 |
| 4,00    | 4,00    | 50      | 20      | <b>M6</b>               | 1                | 59987 |
| 5,00    | 5,00    | 50      | 25      | <b>M8 - M10</b>         | 1                | 59989 |
| 6,00    | 6,00    | 60      | 30      | <b>M12</b>              | 1                | 66145 |
| 7,00    | 8,00    | 79      | 35      | <b>M14</b>              | 1                | 66399 |
| 8,00    | 8,00    | 79      | 40      | <b>M16</b>              | 1                | 66407 |
| 9,00    | 10,00   | 100     | 45      | <b>M18</b>              | 1                | 66408 |
| 10,00   | 10,00   | 100     | 50      | <b>M20</b>              | 1                | 66409 |

\* El ø de la broca deberá ser superior al ø nucleo del macho.

The ø of the drill bit must be greater than the ø of the tap core.

Le ø du foret doit être supérieur au ø du noyau du taraud.



Set 5 Pcs

| Cont.        | Nº Art. | € |
|--------------|---------|---|
| 2-3-4-5-6 mm | 83426   |   |

# Ref. 3409

## EXTRACTOR TORNILLOS

Screw Extractor  
Extracteur vis

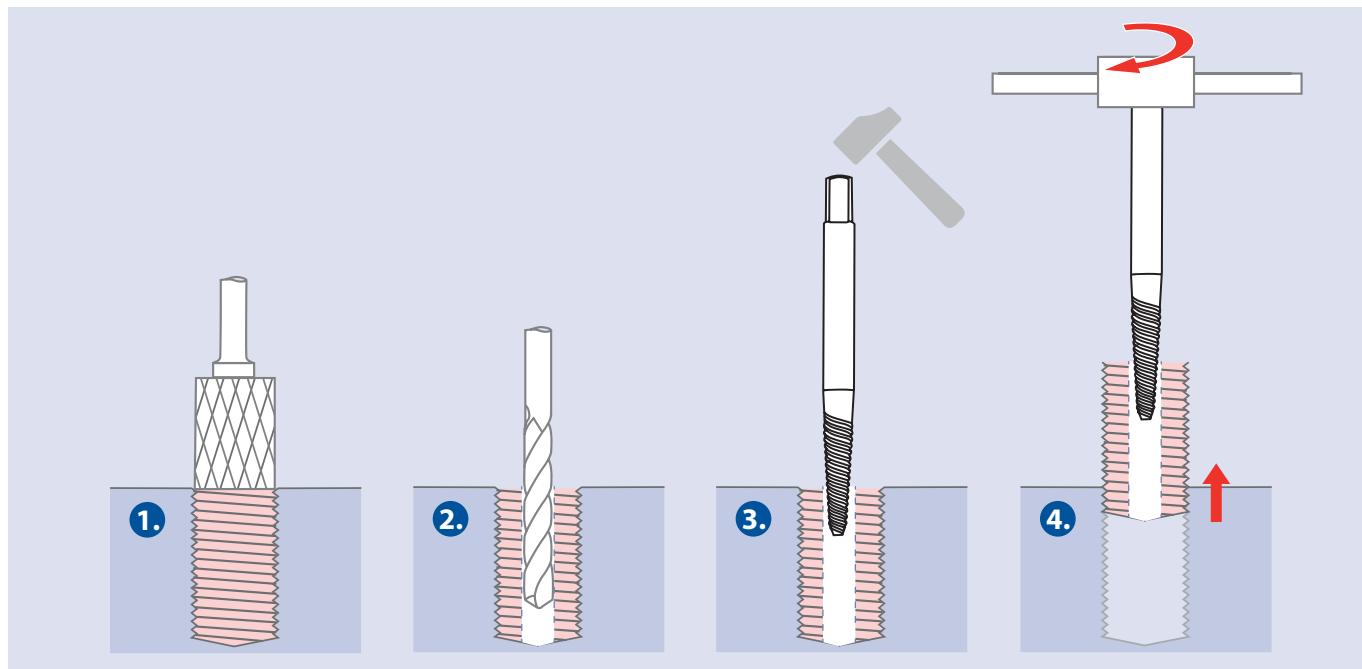


| Mod. | P/Tornillo<br>F/Screw<br>P/Vis | P/Tornillo<br>F/Screw<br>P/Vis | D<br>mm | a<br>mm | Nº<br>Art. | € |
|------|--------------------------------|--------------------------------|---------|---------|------------|---|
| 010  | M3-M6                          | 1/8-1/4                        | 2,50    | 2,70    | 40639      |   |
| 020  | M6-M8                          | 1/4-5/16                       | 3,00    | 3,80    | 40641      |   |
| 030  | M8-M11                         | 5/16-7/16                      | 4,50    | 4,90    | 40642      |   |
| 040  | M11-M14                        | 7/16-9/16                      | 6,00    | 7,00    | 40644      |   |
| 050  | M15-M18                        | 9/16-3/4                       | 8,00    | 9,00    | 40645      |   |
| 060  | M18-M24                        | 3/4-1                          | 11,00   | 12,00   | 40647      |   |



Set 5 Pcs

| Set P/Tornillo<br>F/Screw<br>P/Vis | P/Tornillo<br>F/Screw<br>P/Vis | Nº<br>Art. | € |
|------------------------------------|--------------------------------|------------|---|
| M3-M18                             | 1/8-3/4                        | 75905      |   |



### INSTRUCCIONES USO:

1. Alisar la superficie del tornillo con rotativa Ref. 9260.
2. Taladrar un agujero centrado con broca apropiada. Recomendamos Ref. 8403.
3. Introducir el extractor asegurándose de que quede fijo.
4. Girar el extractor hacia la izquierda hasta extraer el tornillo.

### DIRECTIONS FOR USE:

1. Grind the Surface of the screw head with Rotary Burr Ref. 9260.
2. Drill a hole on the screw using a suitable drill bit. We recommend our Ref. 8403.
3. Introduce the extractor and make sure it gets fixed/locked.
4. Turn left the extractor until the screw gets out.

### INSTRUCTIONS D'EMPLOI:

1. Lissez la surface de la vis avec une fraise lime rotative Réf. 9260.
2. Percez un trou centré avec un foret approprié. Nous recommandons notre Réf. 8403.
3. Insérez l'extracteur et assurez-vous qu'il est fixé.
4. Tournez à gauche l'extracteur jusqu'à retirer la vis.

# Línea 33 cm 3409

## EXTRACTOR TORNILLOS

Screw Extractor  
Extracteur vis



19  
cm

| Mod. | 10 | 20 | 30 | 40 | 50 | 60 |
|------|----|----|----|----|----|----|
| Pcs  | 5  | 5  | 5  | 5  | 5  | 4  |

Ref. 4995 - Nº Art. 72139: €

Ref. **3181**

## PORTE-COJINETES

Die Holder  
Porte filières



DIN  
225



| Mod.         | D<br>mm | E<br>mm | L<br>mm | M/MF           | W               | G                      | Nº<br>Art. | € |
|--------------|---------|---------|---------|----------------|-----------------|------------------------|------------|---|
| <b>000</b>   | 16      | 5       | 160     | <b>M1-M2,6</b> | W1/16-W3/32     |                        | 69792      |   |
| <b>010</b>   | 20      | 5       | 200     | <b>M3-M4</b>   | W1/8-W5/32      |                        | 69790      |   |
| <b>020</b>   | 20      | 7       | 200     | <b>M4,5-M6</b> | W3/16-W1/4      |                        | 69798      |   |
| <b>030</b>   | 25      | 9       | 224     | <b>M7-M9</b>   | W5/16           | <b>G1/16</b>           | 69799      |   |
| <b>040</b>   | 30      | 11      | 280     | <b>M10-M11</b> | W3/8-W7/16      | <b>G1/8</b>            | 69811      |   |
| <b>050</b>   | 38      | 14      | 315     | <b>M12-M15</b> | W1/2-W9/16      |                        | 69813      |   |
| <b>060</b>   | 38      | 10      | 315     | MF12-MF15      |                 | <b>G1/4</b>            | 69814      |   |
| <b>070</b>   | 45      | 18      | 450     | <b>M16-M20</b> | W5/8-W3/4       |                        | 69816      |   |
| <b>080</b>   | 45      | 14      | 450     | MF16-MF20      |                 | <b>G3/8-G1/2</b>       | 69817      |   |
| <b>090</b>   | 55      | 22      | 560     | <b>M22-M24</b> | W7/8-W1         |                        | 69819      |   |
| <b>100</b>   | 55      | 16      | 560     | MF21-MF26      |                 | <b>G5/8-G3/4</b>       | 69795      |   |
| <b>110</b>   | 65      | 25      | 630     | <b>M27-M36</b> | W1 1/8 - W1 3/8 |                        | 69796      |   |
| <b>120</b>   | 65      | 18      | 630     | MF27-MF36      |                 | <b>G7/8-G1</b>         | 30484      |   |
| <b>* 130</b> | 75      | 30      | 920     | <b>M39-M42</b> | W1 1/2 - W1 5/8 |                        | 32600      |   |
| <b>* 140</b> | 75      | 20      | 920     | MF38-MF42      |                 | <b>G1 1/8 - G1 1/4</b> | 43515      |   |
| <b>* 150</b> | 90      | 36      | 950     | <b>M45-M52</b> | W1 3/4 - W2     |                        | 43516      |   |
| <b>* 160</b> | 90      | 22      | 950     | MF45-MF52      |                 | <b>G1 1/2</b>          | 43517      |   |

\* Acero / Steel / Acier

Ref. **3184**

## PORTA-COJINETES ISO 529

ISO 529 Die Holder  
Porte filières ISO 529



DIN  
225

| D<br>mm      | E<br>mm | M              | W          | Nº<br>Art. | € |
|--------------|---------|----------------|------------|------------|---|
| <b>25,40</b> | 9,50    | <b>M3-M12</b>  | W1/8-W1/2  | 43317      |   |
| <b>38,10</b> | 12,70   | <b>M8-M20</b>  | W5/16-W3/4 | 43318      |   |
| <b>50,80</b> | 15,90   | <b>M18-M24</b> | W11/16-W1  | 43319      |   |

Ref. **3900**

## GALGA

Pitch Gauge  
Jauge



| Cap.<br>M | Cap.<br>W | Nº<br>Art. | € |
|-----------|-----------|------------|---|
| 0,25-6,00 | 4G-62G    | 44612      |   |
| 0,40-6,00 |           | 67641      |   |

Ref. **3405**

## JUEGO MACHOS MANO MÉTRICA

Metric Hand Tap Set

Jeu de tarauds à main métrique

### Set 29 Pcs

| Cont.                                           |                               | Nº Art. | € |
|-------------------------------------------------|-------------------------------|---------|---|
| <b>Juegos Machos / Tap Sets / Jeux Tarauds</b>  | <b>M3-M4-M5-M6-M8-M10-M12</b> |         |   |
| <b>Brocas / Drill Bits / Forets mm</b>          | 2,5-3,3-4,2-5,0-6,8-8,5-10,2  | 69624   |   |
| <b>Gira-Machos / Tap-Wrench / Porte-Tarauds</b> | <b>M1-M12</b>                 |         |   |



Ref. **3404**

## JUEGO MACHOS MANO PERFIL ROSCA COMPLETA

Whole Thread Profile Hand Tap Set

Jeu de tarauds à main profil filetage complet

### Set 15 Pcs

| Cont.                                           |                               | Nº Art. | € |
|-------------------------------------------------|-------------------------------|---------|---|
| <b>Machos / Taps / Tarauds</b>                  | <b>M3-M4-M5-M6-M8-M10-M12</b> |         |   |
| <b>Brocas / Drill Bits / Forets mm</b>          | 2,5-3,3-4,2-5,0-6,8-8,5-10,2  | 68214   |   |
| <b>Gira-Machos / Tap-Wrench / Porte-Tarauds</b> | <b>M1-M12</b>                 |         |   |



Ref. **3406**

## JUEGO MACHOS / COJINETES MANO MÉTRICA

Metric Hand Tap & Die Set

Jeu de tarauds et filières à main métrique



**33 Pcs**

### Mod. 0 - Cont.

|                                                       |                               |
|-------------------------------------------------------|-------------------------------|
| <b>Juegos Machos</b><br>Tap Sets / Jeux Tarauds       | <b>M3-M4-M5-M6-M8-M10-M12</b> |
| <b>Gira-Machos</b><br>Tap-Wrench / Porte-Tarauds      | <b>M1-M12</b>                 |
| <b>Gira-Machos</b><br>Tap-Wrench / Porte-Tarauds      | Criqué <b>M3-M10</b> Ratchet  |
| <b>Cojinetes</b><br>Dies / Filières                   | <b>M3-M4-M5-M6-M8-M10-M12</b> |
| <b>Porta-Cojinetes</b><br>Die Holder / Porte-Filières | 25x9                          |
| <b>Galga</b><br>Gauge / Gabarit                       | 1 pc                          |
| <b>Destornillador</b><br>Screwdriver / Tournevis      | 1 pc                          |



| Nº Art. | € |
|---------|---|
| 70527   |   |

| Nº Art. | € |
|---------|---|
| 18959   |   |

**55 Pcs**

### Mod. 1 - Cont.

|                                                       |                                               |       |
|-------------------------------------------------------|-----------------------------------------------|-------|
| <b>Juegos Machos</b><br>Tap Sets / Jeux Tarauds       | <b>M3-M4-M5-M6-M8-M10-M12-M14-M16-M18-M20</b> |       |
| <b>Gira-Machos</b><br>Tap-Wrench / Porte-Tarauds      | <b>M1-M12, M5-M20</b>                         |       |
| <b>Gira-Machos</b><br>Tap-Wrench / Porte-Tarauds      | Criqué <b>M3-M10 + M5-M12</b><br>Ratchet      |       |
| <b>Cojinetes</b><br>Dies / Filières                   | <b>M3-M4-M5-M6-M8-M10-M12-M14-M16-M18-M20</b> | 38404 |
| <b>Porta-Cojinetes</b><br>Die Holder / Porte-Filières | 20x5, 20x7, 25x9, 30x11, 38x14,<br>45x18      |       |
| <b>Galga</b><br>Gauge / Gabarit                       | 1 pc                                          |       |
| <b>Destornillador</b><br>Screwdriver / Tournevis      | 1 pc                                          |       |



**45 Pcs**

### Mod. 2 - Cont.

|                                                       |                                |       |
|-------------------------------------------------------|--------------------------------|-------|
| <b>Juegos Machos</b><br>Tap Sets / Jeux Tarauds       | <b>M3-M4-M5-M6-M8-M10-M12</b>  |       |
| <b>Gira-Machos</b><br>Tap-Wrench / Porte-Tarauds      | <b>M1-M10, M4-M12</b>          |       |
| <b>Gira-Machos</b><br>Tap-Wrench / Porte-Tarauds      | Criqué <b>M3-M10</b> Ratchet   |       |
| <b>Cojinetes</b><br>Dies / Filières                   | <b>M3-M4-M5-M6-M8-M10-M12</b>  | 38981 |
| <b>Porta-Cojinetes</b><br>Die Holder / Porte-Filières | 20x5, 20x7, 25x9, 30x11, 38x14 |       |
| <b>Galga</b><br>Gauge / Gabarit                       | 1 pc                           |       |
| <b>Destornillador</b><br>Screwdriver / Tournevis      | 1 pc                           |       |
| <b>Brocas</b><br>Drill Bits / Forets mm               | 2,5-3,3-4,2-5,0-6,8-8,5-10,2   |       |





# ACEITES DE CORTE Y REFRIGERANTES

## Cutting Oils & Water Soluble Fluids

## Huiles de coupe et lubrifiants

### ACEITES DE CORTE

Aceite de corte de uso general de alta gama, formulado a base de aceites vegetales y libre de cloruros. Para aplicaciones de corte en general (taladrado, roscado, fresado, torneado, etc.)

#### Cutting Oils

High-end general purpose cutting oil, formulated from vegetable oils and chloride-free. For general cutting applications (drilling, threading, milling, turning, etc.)

#### Huiles de coupe

Huile de coupe à usage général haut de gamme, formulée à base d'huiles végétales et sans chlorures. Pour des applications de coupe en général (perçage, taraudage, fraisage, tournage, etc.).

### REFRIGERANTES - TALADRINA

Aceite emulsionable altamente concentrado libre de cloruros, aminas secundarias y / o nitritos

#### Water Soluble Fluids

Highly concentrated emulsifiable oil free of chlorides, secondary amines and/or nitrites

#### Lubrifiants

Huile émulsifiable hautement concentrée, exempte de chlorures, d'aminés secondaires et/ou de nitrites



# ACEITES DE CORTE - Cutting Oils - Huiles de coupe



New!

|                                                       |               |
|-------------------------------------------------------|---------------|
| Viscosidad a 40°C<br>Viscosity / Viscosité:<br>37 cSt | No<br>Soluble |
|-------------------------------------------------------|---------------|

- \* Disponible Ficha Técnica
- \* Data Sheet available
- \* Fiche technique disponible



Cont. 250 ml

Nº Art. 53898

€

Cont. 500 ml

Nº Art. 53901

€

Cont. 1L

Nº Art. 53903

€

Cont. 5L

Nº Art. 53904

€

Cont. 10L

Nº Art. 53906

€

Cont. 25L

Nº Art. 53907

€

## INOX

Heavy Duty

New!

|                                                                      |
|----------------------------------------------------------------------|
| VISCOSIDAD EXTRA !<br>Extra Viscosity!<br>Viscosité supplémentaire ! |
|----------------------------------------------------------------------|

|                                                        |               |
|--------------------------------------------------------|---------------|
| Viscosidad a 40°C<br>Viscosity / Viscosité:<br>173 cSt | No<br>Soluble |
|--------------------------------------------------------|---------------|

- \* Disponible Ficha Técnica
- \* Data Sheet available
- \* Fiche technique disponible



Cont. 250 ml

Nº Art. 53928

€

Cont. 500 ml

Nº Art. 53934

€

Cont. 1L

Nº Art. 53936

€

Cont. 5L

Nº Art. 53937

€

Cont. 10L

Nº Art. 53940

€

Cont. 25L

Nº Art. 53942

€

### APLICACIÓN:

Para aplicaciones de mecanizado pesado (Heavy Duty) en todos los metales ferrosos y para un rendimiento mejorado en aceros inoxidables (INOX).

### APPLICATION:

For heavy duty machining applications on all ferrous metals and for improved performance on stainless steels (STAINLESS).

### APPLICATION:

Pour des applications d'usinage lourd (Heavy Duty) sur tous les métaux ferreux et pour améliorer les performances sur les aciers inoxydables (INOX).

|                                                         |               |
|---------------------------------------------------------|---------------|
| Viscosidad a 40°C<br>Viscosity / Viscosité:<br>4,20 cSt | No<br>Soluble |
|---------------------------------------------------------|---------------|

- \* Disponible Ficha Técnica
- \* Data Sheet available
- \* Fiche technique disponible



Cont. 250 ml  
Nº Art. 53943  
€

Cont. 500 ml  
Nº Art. 53946  
€

Cont. 1L  
Nº Art. 53948  
€

Cont. 5L  
Nº Art. 53949  
€

#### APLICACIÓN:

Especial para aplicaciones en todos los metales no ferrosos como aluminio (ALU), cobre, latón, bronce, zinc

#### APPLICATION:

Specially for applications on all non-ferrous metals such as aluminium (ALU), copper, brass, bronze, zinc, etc.

#### APPLICATION:

Spécialement indiqué pour les applications sur tous les métaux non ferreux, tels que l'aluminium (ALU), le cuivre, le laiton, le bronze, le zinc, etc.

## New! AEROSOL - Aerosol - Aérosol

2 Cáñulas / 2 Actuators / 2 Canules



Chorro líquido  
Liquid jet  
Jet liquide

Cont. 400ml  
Nº Art. 53900  
€



Spray

Para aplicaciones de uso general en todos los metales ferrosos

For general purpose applications on all ferrous metals

Pour des applications à usage général sur tous les métaux ferreux

12 UNI



Nº Art. €  
Box  
Price!  
53926

## New! DISPLAYS



9x250ml  
UNI

Nº Art. €  
Set  
Price!  
13929



UNI+INOX+ALU  
3+3+3x250ml  
MIXTO

Nº Art. €  
Set  
Price!  
13930



6x400ml  
AEROSOL

Nº Art. €  
Set  
Price!  
13912

UNI INOX ALU  
Universal Heavy Duty Non Ferrous

**New!**

## PASTA DE CORTE - Cutting Paste - Pâte de coupe

**Pasta con propiedades lubricantes extremas. La pasta se asienta en las aristas de corte y se licua durante la operación de corte.**

**Ideal para todas las operaciones como roscado, taladrado y fresado de materiales difíciles de cortar como acero inoxidable, acero Cr-Ni, titanio, acero al manganeso, etc.**



Cont. 250ml

Nº Art. 53954

€



Cont. 750ml

Nº Art. 53956

€

**Paste with extreme lubricating properties. The paste settles on the cutting edges and liquefies during the cutting operation.**

**Ideal for all operations such as the threading, drilling and milling of difficult-to-cut materials such as stainless steel, Cr-Ni steel, titanium, manganese steel, etc.**

**Pâte aux propriétés lubrifiantes extrêmes. La pâte se dépose sur les bords de coupe et se liquéfie pendant l'opération de coupe.**

**Idéale pour toutes les opérations telles que le taraudage, le perçage et le fraisage de matériaux difficiles à couper comme l'acier inoxydable, l'acier Cr-Ni, le titane, l'acier au manganèse, etc.**



**Sumerja la herramienta de corte en la pasta para obtener resultados optimizados**

**Dip the cutting tool into the paste for optimised results**

**Trempez l'outil de coupe dans la pâte pour des résultats optimisés**

**New!**

## CERA DE CORTE - Cutting Wax - Cire de coupe

**Cera en barra de alta gama para refrigerante y lubricación de operaciones de corte en metales no ferrosos como aluminio, cobre, latón, etc. Libre de cloruros, sin humos o vapores nocivos.**

**Para todas las máquinas de hoja de sierra circular o sierra de cinta sin suministro de refrigerante. También apto para fresado, roscado, escariado, taladrado, torneado, etc.**



Cont. 300ml

Nº Art. 53957

€

**High-end wax in a bar for the cooling and lubrication of cutting operations on non-ferrous metals such as aluminium, copper, brass, etc. Chloride free, no harmful fumes or vapours.**

**For all circular or band saw blade machines without coolant supply. Also suitable for milling, threading, reaming, drilling, turning, etc.**

**Cire en barre haut de gamme pour le refroidissement et la lubrification des opérations de coupe sur les métaux non ferreux tels que l'aluminium, le cuivre, le laiton, etc. Sans chlorures, sans fumées ni vapeurs nocives.**

**Pour toutes les machines à lame de scie circulaire ou à ruban sans alimentation en réfrigérant. Convient également pour le fraisage, taraudage, alésage, perçage, tournage, etc.**



**Para aplicar la cera, sostenga brevemente la barra de cera contra la sierra giratoria. Repita cada 10-20 ciclos de aserrado**

**To apply the wax, briefly hold the wax bar against the rotary saw. Repeat every 10-20 sawing cycles**

**Pour appliquer la cire, maintenez brièvement la barre de cire contre la scie rotative. Répétez tous les 10 à 20 cycles de sciage**

# REFRIGERANTES - TALADRINA

## Water Soluble Fluids - Lubrifiants

**STD**

**Standard**

**New!**

**TOP**

**Top Line**

**New!**



Índice Refractómetro  
Refractometer Index  
**1,60**  
Indice de réfractomètre

- \* Disponible Ficha Técnica
- \* Data Sheet available
- \* Fiche technique disponible

**STANDARD**

Cont. 5L

Nº Art. 53958

€



Índice Refractómetro  
Refractometer Index  
**1,20**  
Indice de réfractomètre

- \* Disponible Ficha Técnica
- \* Data Sheet available
- \* Fiche technique disponible

**TOP LINE**

Cont. 5L

Nº Art. 53959

€

# REPARADORES ROSCAS

Thread Repairs  
Filets rapportes

## Descripción

Desgaste, corrosión, excesiva torsión al ajustar el tornillo... son algunas de las causas que llevan a dañar una rosca sin posibilidad de reparación.

La gama de reparadores de roscas IZARCOIL permite reparar dichas roscas dañadas de manera rápida y económica.

Unos reparadores de acero de gran calidad, para crear una rosca resistente a la temperatura y la corrosión.

## Ventajas

- Instalación rápida y sencilla
- Resistente al desgaste y a la tensión
- Resistente a la corrosión y termoestable

## Description

Wear, corrosion or excessive screw tightening torque... are some of the reasons that lead to threads getting damaged beyond repair.

IZARCOIL thread repair range enables worn and damaged threads to be repaired quickly and at low cost.

In high-quality steel for a good thread, resistant to temperature and corrosion.

## Description

Usure et trop de pression dans la fixation de la vis sont des raisons pour endommager un filetage sans possibilité de réparation. La gamme de filets rapportés IZARCOIL vous permet de réparer les filets endommagés rapidement et d'une façon économique.

Filets rapportés en aciers haute qualité pour avoir un filetage résistant à la température et à l'usure.

## Advantages

- Fast and easy to install
- Stress resistant and wear-free
- Corrosion resistant and thermostable

## Avantages

- Installation rapide et simple
- Résistant à l'usure et à la tension
- Résistant aux variations de température

## Ejemplos de aplicaciones

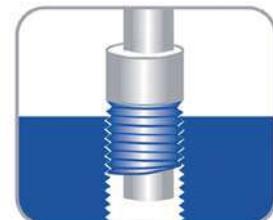
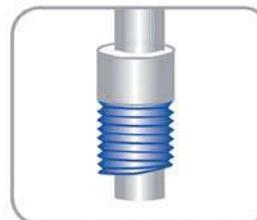
- Refuerzo para roscar materiales con una reducida resistencia (p.e. aleaciones de aluminio y aleaciones de magnesio)
- Ingeniería mecánica
- Ingeniería de automoción y electricidad

## Examples of Applications

- Thread reinforcement for materials with low shearing strength (e.g. aluminium or magnesium alloys)
- Mechanical engineering
- Automotive and electrical engineering

## Exemples d'applications

- Soutien pour fileter aciers avec faible résistances (alliages aluminium et magnésium).
- Ingénierie mécanique
- Ingénierie auto et électricité



## Uso

- 1- Taladrar la rosca dañada con una broca
- 2- Roscar con un macho IZARCOIL
- 3- Biselar el diámetro exterior a 90° y retirar la rebaba
- 4- Insertar el reparador de roscas con la ayuda del vástago
- 5- En caso de agujeros pasantes, usar un rompedor para la muesca

## Use

- 1- Drill the thread with a Drill Bit
- 2- Thread with an IZARCOIL tap
- 3- Bevel the external diameter at 90° and remove the burr
- 4- Insert the thread repair using the fitting tool
- 5- In case of through holes, use a pin-breaker for the notch

## Emploi

- 1- Percer le filet endommagé avec un foret
- 2- Tarauder avec un taraud IZARCOIL
- 3- Chanfreiner le diamètre extérieur à 90° et rétirer les copeaux
- 4- Inserer le réparateur de filets avec l'aide du guide
- 5- Pour trous débouchants, employer un brise-copeaux



# Ref. 3300

## INSERTO REPARACIÓN ROSCAS

Thread Repair Insert

Fillet rapportés

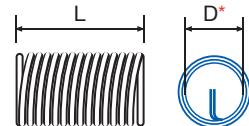


**INOX  
304**

M/MF

**Aceros  
Steels  
Aciers**

**Aleaciones Alum. Alloys / Alliages  
Aleaciones Mg Alloys / Alliages**



\*D = M (aprox.)

(New!)

| M            | P           | <b>L = 1xD</b> |         |         | <b>L = 1,5xD</b> |         |         | <b>L = 2xD</b> |         |         | <b>L = 2,5xD</b> |         |         | <b>L = 3xD</b> |         |         |
|--------------|-------------|----------------|---------|---------|------------------|---------|---------|----------------|---------|---------|------------------|---------|---------|----------------|---------|---------|
|              |             |                | Nº Art. | € 1 ud. |                  | Nº Art. | € 1 ud. |                | Nº Art. | € 1 ud. |                  | Nº Art. | € 1 ud. |                | Nº Art. | € 1 ud. |
| <b>M3</b>    | <b>0,50</b> | 25             | 56287   |         | 25               | 56288   |         | 25             | 56289   |         | 25               | 56291   |         | 25             | 56292   |         |
| <b>M4</b>    | <b>0,70</b> | 25             | 56293   |         | 25               | 56294   |         | 25             | 56297   |         | 25               | 56299   |         | 25             | 56300   |         |
| <b>M5</b>    | <b>0,80</b> | 25             | 56302   |         | 25               | 56303   |         | 25             | 56304   |         | 25               | 56306   |         | 25             | 56309   |         |
| <b>M6+ *</b> | <b>1,00</b> | 25             | 56310   |         | 25               | 56311   |         | 25             | 56312   |         | 25               | 56313   |         | 25             | 56315   |         |
| <b>M6- *</b> | <b>1,00</b> | 25             | 14857   |         | 25               | 14859   |         | 25             | 14863   |         | 25               | 14865   |         | 25             | 14866   |         |
| <b>M7</b>    | <b>1,00</b> | 25             | 56316   |         | 25               | 56318   |         | 25             | 56319   |         | 25               | 56320   |         | 25             | 56321   |         |
| <b>M8</b>    | <b>1,00</b> | 25             | 56322   |         | 25               | 56324   |         | 25             | 56325   |         | 25               | 56326   |         | 25             | 56327   |         |
| <b>M8</b>    | <b>1,25</b> | 25             | 56332   |         | 25               | 56333   |         | 25             | 56334   |         | 25               | 56336   |         | 25             | 56337   |         |
| <b>M9</b>    | <b>1,25</b> | 25             | 56339   |         | 25               | 56340   |         | 25             | 56341   |         | 25               | 56342   |         | 25             | 56343   |         |
| MF10         | 1,00        | 25             | 56344   |         | 25               | 56345   |         | 25             | 56346   |         | 25               | 56347   |         | 25             | 56348   |         |
| MF10         | 1,25        | 25             | 56349   |         | 25               | 56351   |         | 25             | 56352   |         | 25               | 56353   |         | 25             | 56354   |         |
| <b>M10</b>   | <b>1,50</b> | 25             | 56355   |         | 25               | 56357   |         | 25             | 56360   |         | 25               | 56361   |         | 10             | 56362   |         |
| <b>M11</b>   | <b>1,50</b> | 25             | 56363   |         | 25               | 56364   |         | 10             | 56365   |         | 10               | 56366   |         | 10             | 56367   |         |
| MF12         | 1,00        | 25             | 56369   |         | 25               | 56371   |         | 10             | 56372   |         | 10               | 56373   |         | 10             | 56374   |         |
| MF12         | 1,25        | 25             | 56375   |         | 25               | 56377   |         | 10             | 56378   |         | 10               | 56379   |         | 10             | 56381   |         |
| MF12         | 1,50        | 25             | 56384   |         | 25               | 56385   |         | 10             | 56387   |         | 10               | 56388   |         | 10             | 56389   |         |
| <b>M12</b>   | <b>1,75</b> | 25             | 56390   |         | 25               | 56391   |         | 10             | 56392   |         | 10               | 56393   |         | 10             | 56394   |         |
| MF14         | 1,00        | 10             | 56395   |         | 10               | 56396   |         | 10             | 56397   |         | 10               | 56399   |         | 10             | 56400   |         |
| MF14         | 1,25        | 10             | 56401   |         | 10               | 56402   |         | 10             | 56403   |         | 10               | 56404   |         | 10             | 56405   |         |
| MF14         | 1,50        | 10             | 56406   |         | 10               | 56407   |         | 10             | 56408   |         | 10               | 56409   |         | 10             | 56410   |         |
| <b>M14</b>   | <b>2,00</b> | 10             | 58844   |         | 10               | 58845   |         | 10             | 58846   |         | 10               | 58847   |         | 10             | 58848   |         |
| MF16         | 1,50        | 10             | 56411   |         | 10               | 56412   |         | 10             | 56413   |         | 10               | 56414   |         | 10             | 56416   |         |
| <b>M16</b>   | <b>2,00</b> | 10             | 56417   |         | 10               | 56419   |         | 10             | 56420   |         | 10               | 56422   |         | 10             | 56423   |         |
| MF18         | 2,00        | 10             | 56425   |         | 10               | 56427   |         | 10             | 56430   |         | 10               | 56431   |         | 10             | 56433   |         |
| <b>M18</b>   | <b>2,50</b> | 10             | 56434   |         | 10               | 56436   |         | 10             | 56439   |         | 10               | 56440   |         | 10             | 56442   |         |
| <b>M20</b>   | <b>2,50</b> | 10             | 67788   |         | 10               | 67790   |         | 10             | 67792   |         | 10               | 67794   |         | 10             | 70628   |         |
| <b>M22</b>   | <b>2,50</b> | 10             | 56445   |         | 10               | 56446   |         | 10             | 56448   |         | 10               | 56451   |         | 10             | 56452   |         |
| MF24         | 2,00        | 10             | 56454   |         | 10               | 56457   |         | 10             | 56458   |         | 10               | 56460   |         | 10             | 56463   |         |
| <b>M24</b>   | <b>3,00</b> | 10             | 56464   |         | 10               | 56466   |         | 10             | 56467   |         | 10               | 56473   |         | 5              | 56476   |         |

\* M6+ → ø7,6 - ø7,7

\* M6- → ø7,3 - ø7,4

Ref. **3305**

## MACHO PARA INSERTO REPARACIÓN ROSCAS

Thread Repair Insert Tap

Taraud fileté rapporté



HSS

M/MF

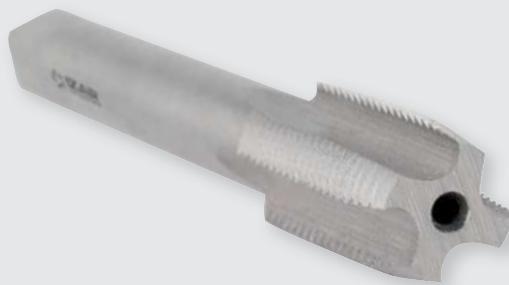
IZARCOIL

Aceros  
Steels  
Aciers

Aleaciones Alum. Alloys / Alliages  
Aleaciones Mg Alloys / Alliages



| M          | P           | D mm  | d mm  | L mm | I mm |  | a mm  | Z | Nº Art. | €     | D Broca<br>Drill Bit / Foret<br>mm |
|------------|-------------|-------|-------|------|------|-----------------------------------------------------------------------------------|-------|---|---------|-------|------------------------------------|
| <b>M3</b>  | <b>0,50</b> | 3,65  | 4,00  | 53   | 13   |  | 3,15  | 3 | 56615   | 3,20  |                                    |
| <b>M4</b>  | <b>0,70</b> | 4,91  | 5,00  | 58   | 16   |  | 4,00  | 3 | 56617   | 4,20  |                                    |
| <b>M5</b>  | <b>0,80</b> | 6,04  | 6,30  | 66   | 19   |  | 5,00  | 3 | 56620   | 5,20  |                                    |
| <b>M6</b>  | <b>1,00</b> | 7,30  | 8,00  | 72   | 22   |  | 6,30  | 3 | 56622   | 6,30  |                                    |
| <b>M7</b>  | <b>1,00</b> | 8,30  | 9,00  | 72   | 22   |  | 7,10  | 3 | 56623   | 7,30  |                                    |
| <b>M8</b>  | <b>1,00</b> | 9,30  | 10,00 | 80   | 24   |  | 8,00  | 3 | 56628   | 8,30  |                                    |
| <b>M8</b>  | <b>1,25</b> | 9,62  | 10,00 | 80   | 24   |  | 8,00  | 3 | 56626   | 8,30  |                                    |
| <b>M9</b>  | <b>1,25</b> | 10,60 | 8,00  | 85   | 25   |  | 6,30  | 3 | 56629   | 9,40  |                                    |
| MF10       | 1,00        | 11,30 | 8,00  | 85   | 25   |  | 6,30  | 3 | 56638   | 10,30 |                                    |
| MF10       | 1,25        | 11,62 | 8,00  | 85   | 25   |  | 6,30  | 3 | 56634   | 10,30 |                                    |
| <b>M10</b> | <b>1,50</b> | 11,95 | 9,00  | 89   | 29   |  | 7,10  | 3 | 56632   | 10,40 |                                    |
| <b>M11</b> | <b>1,50</b> | 12,95 | 9,00  | 89   | 29   |  | 7,10  | 3 | 56640   | 11,50 |                                    |
| MF12       | 1,00        | 13,30 | 11,20 | 95   | 30   |  | 9,00  | 3 | 56646   | 12,30 |                                    |
| MF12       | 1,25        | 13,62 | 11,20 | 95   | 30   |  | 9,00  | 3 | 56648   | 12,30 |                                    |
| MF12       | 1,50        | 13,95 | 11,20 | 95   | 30   |  | 9,00  | 3 | 56647   | 12,50 |                                    |
| <b>M12</b> | <b>1,75</b> | 14,27 | 11,20 | 95   | 30   |  | 9,00  | 3 | 56644   | 12,50 |                                    |
| MF14       | 1,00        | 15,30 | 12,50 | 102  | 32   |  | 10,00 | 3 | 56650   | 14,30 |                                    |
| MF14       | 1,25        | 15,62 | 12,50 | 102  | 32   |  | 10,00 | 3 | 56652   | 14,30 |                                    |
| MF14       | 1,50        | 15,95 | 12,50 | 102  | 32   |  | 10,00 | 3 | 56651   | 14,50 |                                    |
| <b>M14</b> | <b>2,00</b> | 16,70 | 12,50 | 102  | 32   |  | 10,00 | 4 | 58849   | 14,50 |                                    |
| MF16       | 1,50        | 18,00 | 14,00 | 104  | 29   |  | 11,20 | 4 | 56654   | 16,50 |                                    |
| <b>M16</b> | <b>2,00</b> | 18,60 | 14,00 | 112  | 37   |  | 11,20 | 4 | 56653   | 16,50 |                                    |
| MF18       | 2,00        | 20,60 | 14,00 | 104  | 29   |  | 11,20 | 4 | 56657   | 18,50 |                                    |
| <b>M18</b> | <b>2,50</b> | 21,30 | 16,00 | 118  | 38   |  | 12,50 | 4 | 56656   | 18,75 |                                    |
| <b>M20</b> | <b>2,50</b> | 23,32 | 16,00 | 118  | 38   |  | 12,50 | 4 | 72852   | 20,75 |                                    |
| <b>M22</b> | <b>2,50</b> | 25,30 | 18,00 | 130  | 45   |  | 14,00 | 4 | 56658   | 23,00 |                                    |
| MF24       | 2,00        | 26,60 | 20,00 | 127  | 37   |  | 16,00 | 4 | 56660   | 24,50 |                                    |
| <b>M24</b> | <b>3,00</b> | 27,90 | 20,00 | 138  | 48   |  | 16,00 | 4 | 56659   | 25,00 |                                    |



Ref. **3303**

## INSERTADOR

Fitting Tool  
Appareil de Pose



| M          | L<br>mm | D<br>mm |   | Nº<br>Art. | € |
|------------|---------|---------|---|------------|---|
| <b>M3</b>  | 132     | 2,20    | 1 | 70226      |   |
| <b>M4</b>  | 132     | 3,00    | 1 | 66774      |   |
| <b>M5</b>  | 132     | 4,00    | 1 | 66775      |   |
| <b>M6</b>  | 132     | 4,90    | 1 | 66776      |   |
| <b>M8</b>  | 132     | 6,50    | 1 | 66777      |   |
| <b>M10</b> | 132     | 7,00    | 1 | 66778      |   |
| <b>M12</b> | 132     | 9,50    | 1 | 66779      |   |
| <b>M14</b> | 132     | 10,00   | 1 | 66780      |   |
| <b>M16</b> | 132     | 12,75   | 1 | 79464      |   |
| <b>M18</b> | 132     | 14,90   | 1 | 79466      |   |
| <b>M20</b> | 132     | 15,95   | 1 | 79467      |   |
| <b>M22</b> | 132     | 17,95   | 1 | 83203      |   |
| <b>M24</b> | 132     | 20,00   | 1 | 79468      |   |

Ref. **3307**

## ROMPE ARRASTRES

Pin-Breaker  
Rupteur



| M          | L<br>mm | D<br>mm |   | Nº<br>Art. | € |
|------------|---------|---------|---|------------|---|
| <b>M3</b>  | 100     | 2,20    | 1 | 70238      |   |
| <b>M4</b>  | 100     | 3,00    | 1 | 66781      |   |
| <b>M5</b>  | 100     | 4,00    | 1 | 66782      |   |
| <b>M6</b>  | 100     | 4,90    | 1 | 66783      |   |
| <b>M8</b>  | 100     | 6,50    | 1 | 66784      |   |
| <b>M10</b> | 100     | 7,00    | 1 | 66785      |   |
| <b>M12</b> | 100     | 9,50    | 1 | 66786      |   |
| <b>M14</b> | 100     | 10,00   | 1 | 66787      |   |
| <b>M16</b> | 100     | 12,75   | 1 | 79470      |   |
| <b>M18</b> | 100     | 14,90   | 1 | 79476      |   |
| <b>M20</b> | 100     | 15,95   | 1 | 79477      |   |
| <b>M22</b> | 100     | 17,95   | 1 | 83205      |   |
| <b>M24</b> | 100     | 20,00   | 1 | 79478      |   |



Ref. **3310**

## SET REPARACIÓN ROSCAS

Thread Repair Set  
Set filet rapportés



M

Aceros  
Steels  
Aciers

Aleaciones Alum. Alloys / Alliages  
Aleaciones Mg Alloys / Alliages

### Set 95 Pcs

|                                                                  | Cont. M5-M12                                                                                                | Nº Art. | € |
|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------|---|
| <b>Insertos</b><br>Inserts<br>Rapportes                          | <b>INOX 304</b><br><b>M5</b> 0,80<br><b>M6</b> 1,00<br><b>M8</b> 1,25<br><b>M10</b> 1,50<br><b>M12</b> 1,75 |         |   |
| <b>Brocas</b><br>Drill Bits<br>Forets (D mm)                     | <b>HSS</b><br>5,20 - 6,30 - 8,30 - 10,40 - 12,50                                                            |         |   |
| <b>Machos</b><br>Taps<br>Tarauds (D mm)                          | <b>HSS</b><br>6,04 - 7,30 - 9,62 - 11,95 - 14,27                                                            | 56481   |   |
| <b>Insertadores</b><br>Fitting Tools<br>Appareils de pose (D mm) | 4,00 - 4,50 - 6,25 - 7,20 - 9,50                                                                            |         |   |
| <b>Rompe arrastres</b><br>Pin-Breakers<br>Rupteurs (D mm)        | 4,00 - 4,50 - 6,25 - 7,20 - 9,50                                                                            |         |   |

Ref. **3311**

## SET REPARACIÓN ROSCAS BUJÍAS

Spark Plug Thread Repair Set  
Set filet rapportés bougies



M/MF



Aceros  
Steels  
Aciers

Aleaciones Alum. Alloys / Alliages  
Aleaciones Mg Alloys / Alliages

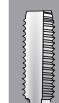
### Set 94 Pcs

|                                                                  | Cont. M6-M14                                                                                                  | Nº Art. | € |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------|---|
| <b>Insertos</b><br>Inserts<br>Rapportes                          | <b>INOX 304</b><br><b>M6</b> 1,00<br><b>M8</b> 1,25<br><b>M10</b> 1,50<br><b>M12</b> 1,75<br><b>MF14</b> 1,25 |         |   |
| <b>Brocas</b><br>Drill Bits<br>Forets (D mm)                     | <b>HSS</b><br>6,30 - 8,30 - 10,40 - 12,50                                                                     |         |   |
| <b>Machos</b><br>Taps<br>Tarauds (D mm)                          | <b>HSS</b><br>7,30 - 9,62 - 11,95 - 14,27 - 15,60                                                             | 56482   |   |
| <b>Insertadores</b><br>Fitting Tools<br>Appareils de pose (D mm) | 4,50 - 6,25 - 7,20 - 9,50 - 12,90                                                                             |         |   |
| <b>Rompe arrastres</b><br>Pin-Breakers<br>Rupteurs (D mm)        | 4,50 - 6,25 - 7,20 - 9,50 - 12,90                                                                             |         |   |

Ref. **3312**

## SET REPARACIÓN ROSCAS COMPLETO

Complete Thread Repair Set  
Set filet rapportés complet



M/MF

Aceros  
Steels  
Aciers

Aleaciones Alum. Alloys / Alliages  
Aleaciones Mg Alloys / Alliages

### Set 19 Pcs

| M          | P           | Insertos<br>Inserts<br>Rapportés      | INOX<br>304 | Brocas<br>Drill Bits<br>Forets<br>(D mm) | HSS | Machos<br>Taps<br>Tarauds<br>(D mm) | HSS | Insertadores<br>Fitting Tools<br>Appareils de pose<br>(D mm) | Rompe arrastres<br>Pin-Breakers<br>Rupteurs<br>(D mm) | Nº<br>Art. | € |
|------------|-------------|---------------------------------------|-------------|------------------------------------------|-----|-------------------------------------|-----|--------------------------------------------------------------|-------------------------------------------------------|------------|---|
| <b>M3</b>  | <b>0,50</b> | 5pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD  |             | 3,20                                     |     | 3,65                                |     | 2,20                                                         | 2,20                                                  | 60330      |   |
| <b>M4</b>  | <b>0,70</b> | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD |             | 4,20                                     |     | 4,91                                |     | 3,00                                                         | 3,00                                                  | 56484      |   |
| <b>M5</b>  | <b>0,80</b> | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD |             | 5,20                                     |     | 6,04                                |     | 4,00                                                         | 4,00                                                  | 56487      |   |
| <b>M6</b>  | <b>1,00</b> | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD |             | 6,30                                     |     | 7,30                                |     | 4,90                                                         | 4,90                                                  | 56488      |   |
| <b>M7</b>  | <b>1,00</b> | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD |             | 7,30                                     |     | 8,30                                |     | 4,90                                                         | 4,90                                                  | 67804      |   |
| MF8        | 1,00        | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD |             | 8,30                                     |     | 9,30                                |     | 6,50                                                         | 6,50                                                  | 56497      |   |
| <b>M8</b>  | <b>1,25</b> | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD |             | 8,30                                     |     | 9,62                                |     | 6,50                                                         | 6,50                                                  | 56490      |   |
| MF10       | 1,00        | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD |             | 10,30                                    |     | 11,30                               |     | 7,00                                                         | 7,00                                                  | 12675      |   |
| MF10       | 1,25        | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD |             | 10,30                                    |     | 11,62                               |     | 7,00                                                         | 7,00                                                  | 56500      |   |
| <b>M10</b> | <b>1,50</b> | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD |             | 10,40                                    |     | 11,95                               |     | 7,00                                                         | 7,00                                                  | 56493      |   |
| MF12       | 1,00        | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD |             | 12,30                                    |     | 13,30                               |     | 9,50                                                         | 9,50                                                  | 57967      |   |
| MF12       | 1,50        | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD |             | 12,50                                    |     | 13,95                               |     | 9,50                                                         | 9,50                                                  | 57964      |   |
| <b>M12</b> | <b>1,75</b> | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD |             | 12,50                                    |     | 14,27                               |     | 9,50                                                         | 9,50                                                  | 56496      |   |
| MF14       | 1,25        | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD |             | *14,30                                   |     | 15,62                               |     | 11,50                                                        | 11,50                                                 | 57973      |   |
| <b>M14</b> | <b>2,00</b> | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD |             | *14,50                                   |     | 16,60                               |     | 10,50                                                        | 10,00                                                 | 57970      |   |
| MF16       | 1,50        | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD |             | *16,50                                   |     | 18,00                               |     | 12,75                                                        | 12,75                                                 | 23220      |   |
| <b>M16</b> | <b>2,00</b> | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD |             | *16,50                                   |     | 18,60                               |     | 12,75                                                        | 12,75                                                 | 23221      |   |

\* Diámetro de broca correspondiente. Broca no incluida

Corresponding drill bit diameter. Drill bit not included

Diamètre de foret correspondant. Foret non inclus

# FRESAS ROTATIVAS

Rotary Burrs  
Fraises limes rotatives

Ref. **9260**

## FRESA ROTATIVA MD ZYA-S

ZYA-S HM Rotary Burr

Fraise lime rotative carbure ZYA-S

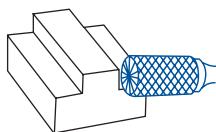
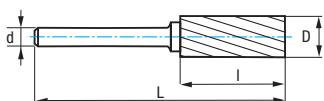


**MD  
HM  
Carbure**

**MD/HM  
+  
ALTIN**

**Norma  
ZYA-S  
Norm**

**Tipo  
B  
Type**



**MATERIALES NO FERROSOS**  
Non-Ferrous Materials  
Matériaux non ferreux



**USO GENERAL**  
General Purpose  
Utilisation Générale



**VIRUTA CORTA**  
Short Chipping  
Copeaux Courts



**MATERIALES DUROS**  
Hard Materials  
Matériaux Durs

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Dentado<br>Teeth / Denture |         | Dentado<br>Teeth / Denture |         | Dentado<br>Teeth / Denture |   | Dentado<br>Teeth / Denture |         | Dentado<br>Teeth / Denture |       | Dentado<br>Teeth / Denture |   | Dentado<br>Teeth / Denture |         |   |         |         |   |  |
|---------|---------|---------|---------|----------------------------|---------|----------------------------|---------|----------------------------|---|----------------------------|---------|----------------------------|-------|----------------------------|---|----------------------------|---------|---|---------|---------|---|--|
|         |         |         |         | 1                          | Nº Art. | €                          | 1 ALTIN | Nº Art.                    | € | 3                          | Nº Art. | €                          | 4     | Nº Art.                    | € | 6                          | Nº Art. | € | 6 ALTIN | Nº Art. | € |  |
| 3,00    | 3,00    | 38,00   | 14,00   | 55677                      |         |                            |         | 44072                      |   | 44079                      |         |                            | 44086 |                            |   | 66485                      |         |   |         |         |   |  |
| 6,00    | 6,00    | 50,00   | 18,00   | 55680                      |         |                            |         | 44074                      |   | 44081                      |         |                            | 44141 |                            |   | 66486                      |         |   |         |         |   |  |
| 6,30    | 3,00    | 45,00   | 12,70   | 55679                      |         |                            |         | 44073                      |   | 44080                      |         |                            | 44122 |                            |   |                            |         |   |         |         |   |  |
| 8,00    | 6,00    | 64,00   | 19,00   | 55681                      |         |                            |         | 44075                      |   | 44082                      |         |                            | 44142 |                            |   | 66487                      |         |   |         |         |   |  |
| 9,60    | 6,00    | 64,00   | 19,00   | 44070                      | 55864   |                            |         | 44076                      |   | 44083                      |         |                            | 44143 |                            |   | 43567                      |         |   |         |         |   |  |
| 12,70   | 6,00    | 70,00   | 25,00   | 44071                      | 55866   |                            |         | 44077                      |   | 44084                      |         |                            | 44144 |                            |   | 66488                      |         |   |         |         |   |  |
| 12,70   | 8,00    | 70,00   | 25,00   | 55691                      |         |                            |         | 55689                      |   |                            |         |                            | 55690 |                            |   |                            |         |   |         |         |   |  |
| 16,00   | 6,00    | 70,00   | 25,00   | 55682                      |         |                            |         | 44078                      |   | 44085                      |         |                            | 44145 |                            |   |                            |         |   |         |         |   |  |
| 16,00   | 8,00    | 70,00   | 25,00   | 55695                      |         |                            |         | 55692                      |   |                            |         |                            | 55693 |                            |   |                            |         |   |         |         |   |  |
| 19,00   | 6,00    | 70,00   | 25,00   | 55685                      |         |                            |         | 55683                      |   |                            |         |                            | 55684 |                            |   |                            |         |   |         |         |   |  |
| 25,00   | 6,00    | 70,00   | 25,00   | 55688                      |         |                            |         | 55686                      |   |                            |         |                            | 55687 |                            |   |                            |         |   |         |         |   |  |

Línea 33 cm  
**9200**

## FRESAS ROTATIVAS

Rotary Burrs

Fraises limes rotatives



| Ref             | 9251       | 9251       | 9251         | 9251          | 9260         | 9260          |
|-----------------|------------|------------|--------------|---------------|--------------|---------------|
| Diam            | <b>6x6</b> | <b>8x6</b> | <b>9,6x6</b> | <b>12,7x6</b> | <b>9,6x6</b> | <b>12,7x6</b> |
| Dent./<br>Teeth | 6          | 6          | 6            | 6             | 6            | 6             |
| Pcs.            | 2          | 2          | 2            | 2             | 2            | 2             |

Ref. 4995 - Nº Art. 71009: €

# Ref. 9250

## FRESA ROTATIVA MD ZYA

ZYA HM Rotary Burr

Fraise lime rotative carbure ZYA

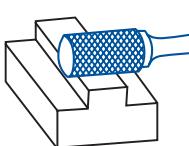
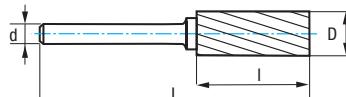


**MD  
HM  
Carbure**

**MD/HM  
+  
ALTIN**

**Norma  
ZYA  
Norm**

**Tipo  
A  
Type**



**MATERIALES NO FERROSOS**  
Non-Ferrous Materials  
Matériaux non ferreux



**USO GENERAL**  
General Purpose  
Utilisation Générale



**VIRUTA CORTA**  
Short Chipping  
Copeaux Courts



**MATERIALES DUROS**  
Hard Materials  
Matériaux Durs



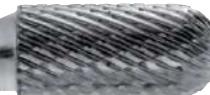
| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Dentado<br>Teeth / Denture |         | Dentado<br>Teeth / Denture |         | Dentado<br>Teeth / Denture |   | Dentado<br>Teeth / Denture |         | Dentado<br>Teeth / Denture |       | Dentado<br>Teeth / Denture |       |
|---------|---------|---------|---------|----------------------------|---------|----------------------------|---------|----------------------------|---|----------------------------|---------|----------------------------|-------|----------------------------|-------|
|         |         |         |         | 1                          | Nº Art. | €                          | 1 ALTIN | Nº Art.                    | € | 3                          | Nº Art. | €                          | 4     | Nº Art.                    | €     |
| 3,00    | 3,00    | 38,00   | 14,00   | 55644                      |         |                            |         | 44149                      |   | 44156                      |         |                            | 44245 |                            | 66489 |
| 6,00    | 6,00    | 50,00   | 18,00   | 55648                      |         |                            |         | 44151                      |   | 44158                      |         |                            | 44417 |                            | 66490 |
| 6,30    | 3,00    | 45,00   | 12,70   | 55645                      |         |                            |         | 44150                      |   | 44157                      |         |                            | 44301 |                            |       |
| 8,00    | 6,00    | 64,00   | 19,00   | 55651                      |         |                            |         | 44152                      |   | 44159                      |         |                            | 44418 |                            | 66491 |
| 9,60    | 6,00    | 64,00   | 19,00   | 44147                      | 55861   |                            |         | 44153                      |   | 44160                      |         |                            | 44419 |                            | 63933 |
| 12,70   | 6,00    | 70,00   | 25,00   | 44148                      | 55863   |                            |         | 44154                      |   | 44161                      |         |                            | 44421 |                            | 66492 |
| 12,70   | 8,00    | 70,00   | 25,00   | 55671                      |         |                            |         | 55669                      |   |                            |         |                            | 55670 |                            |       |
| 16,00   | 6,00    | 70,00   | 25,00   | 55653                      |         |                            |         | 44155                      |   | 44173                      |         |                            | 44422 |                            |       |
| 16,00   | 8,00    | 70,00   | 25,00   | 55675                      |         |                            |         | 55672                      |   |                            |         |                            | 55673 |                            |       |
| 19,00   | 6,00    | 70,00   | 25,00   | 55664                      |         |                            |         | 55655                      |   |                            |         |                            | 55657 |                            |       |
| 25,00   | 6,00    | 70,00   | 25,00   | 55668                      |         |                            |         | 55666                      |   |                            |         |                            | 55667 |                            |       |

# Ref. 9251

## FRESA ROTATIVA MD WRC RADIAL

Radial WRC HM Rotary Burr

Fraise lime rotative carbure WRC hemisphérique

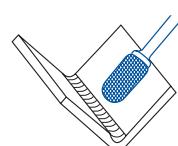
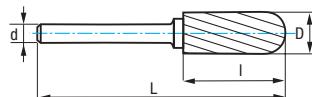


**MD  
HM  
Carbure**

**MD/HM  
+  
ALTIN**

**Norma  
WRC  
Norm**

**Tipo  
C  
Type**



**MATERIALES NO FERROSOS**  
Non-Ferrous Materials  
Matériaux non ferreux



**USO GENERAL**  
General Purpose  
Utilisation Générale



**VIRUTA CORTA**  
Short Chipping  
Copeaux Courts



**MATERIALES DUROS**  
Hard Materials  
Matériaux Durs



**TITANIO, INCONEL...**  
Titanium, Inconel...  
Titane, Inconel...

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Dentado<br>Teeth / Denture |         | Dentado<br>Teeth / Denture |         | Dentado<br>Teeth / Denture |   | Dentado<br>Teeth / Denture |         | Dentado<br>Teeth / Denture |       | Dentado<br>Teeth / Denture |       | Dentado<br>Teeth / Denture |         |   |         |
|---------|---------|---------|---------|----------------------------|---------|----------------------------|---------|----------------------------|---|----------------------------|---------|----------------------------|-------|----------------------------|-------|----------------------------|---------|---|---------|
|         |         |         |         | 1                          | Nº Art. | €                          | 1 ALTIN | Nº Art.                    | € | 3                          | Nº Art. | €                          | 4     | Nº Art.                    | €     | 6                          | Nº Art. | € | 6 ALTIN |
| 3,00    | 3,00    | 38,00   | 14,00   | 55696                      |         |                            |         | 44425                      |   | 44431                      |         |                            | 44437 |                            | 66493 |                            | 83022   |   |         |
| 6,00    | 6,00    | 50,00   | 18,00   | 55698                      |         |                            |         | 44426                      |   | 44432                      |         |                            | 44438 |                            | 66494 |                            |         |   |         |
| 8,00    | 6,00    | 64,00   | 18,00   | 55699                      |         |                            |         | 44427                      |   | 44433                      |         |                            | 44439 |                            | 66495 |                            |         |   |         |
| 9,60    | 6,00    | 64,00   | 19,00   | 44423                      | 55867   |                            |         | 44428                      |   | 44434                      |         |                            | 44440 |                            | 66496 |                            |         |   |         |
| 12,70   | 6,00    | 70,00   | 25,00   | 44424                      | 55868   |                            |         | 44429                      |   | 44435                      |         |                            | 44441 |                            | 66497 |                            |         |   |         |
| 12,70   | 8,00    | 70,00   | 25,00   | 55708                      |         |                            |         | 55706                      |   |                            |         |                            | 55707 |                            |       |                            |         |   |         |
| 16,00   | 6,00    | 70,00   | 25,00   | 12138                      |         |                            |         | 44430                      |   | 44436                      |         |                            | 44442 |                            |       |                            |         |   |         |
| 16,00   | 8,00    | 70,00   | 25,00   | 55711                      |         |                            |         | 55709                      |   |                            |         |                            | 55710 |                            |       |                            |         |   |         |
| 19,00   | 6,00    | 70,00   | 25,00   | 55702                      |         |                            |         | 55700                      |   |                            |         |                            | 55701 |                            |       |                            |         |   |         |
| 25,00   | 6,00    | 70,00   | 25,00   | 55704                      |         |                            |         | 55704                      |   |                            |         |                            | 55705 |                            |       |                            |         |   |         |

# Ref. 9252

## FRESA ROTATIVA MD WKN CONO INVERTIDO

Inverted Cone WKN HM Rotary Burr

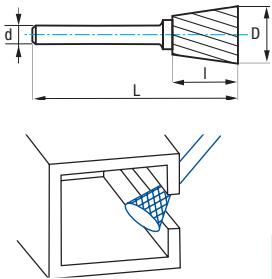
Fraise lime rotative carbure WKN sans coupe en bout



**MD  
HM  
Carbure**

**Norma  
WKN  
Norm**

**Tipo  
N  
Type**



**USO GENERAL**  
General Purpose  
Utilisation Générale



**VIRUTA CORTA**  
Short Chipping  
Copeaux Courts



**MATERIALES DUROS**  
Hard Materials  
Matériaux Durs

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Ang.<br>° | Dentado<br>Teeth / Denture |         |   | Dentado<br>Teeth / Denture |         |   | Dentado<br>Teeth / Denture |         |   |
|---------|---------|---------|---------|-----------|----------------------------|---------|---|----------------------------|---------|---|----------------------------|---------|---|
|         |         |         |         |           | 3                          | Nº Art. | € | 4                          | Nº Art. | € | 6                          | Nº Art. | € |
| 3,00    | 3,00    | 38,00   | 4,00    | 10°       | 44443                      |         |   | 44450                      |         |   | 44455                      |         |   |
| 6,00    | 6,00    | 50,00   | 8,00    | 10°       | 44447                      |         |   | 44452                      |         |   | 44458                      |         |   |
| 6,30    | 3,00    | 39,00   | 6,00    | 12°       | 44445                      |         |   | 44451                      |         |   | 44457                      |         |   |
| 12,70   | 6,00    | 57,00   | 12,00   | 28°       | 44448                      |         |   | 44453                      |         |   | 44460                      |         |   |
| 12,70   | 8,00    | 58,00   | 12,70   | 28°       | 55825                      |         |   |                            |         |   | 55826                      |         |   |
| 16,00   | 6,00    | 64,00   | 19,00   | 18°       | 44449                      |         |   | 44454                      |         |   | 44461                      |         |   |
| 16,00   | 8,00    | 64,00   | 19,00   | 18°       | 55827                      |         |   |                            |         |   | 55828                      |         |   |
| 19,00   | 6,00    | 61,00   | 16,00   | 30°       | 55823                      |         |   |                            |         |   | 55824                      |         |   |

# Ref. 9254

## FRESA ROTATIVA MD SPG OJIVA

Tree SPG HM Rotary Burr

Fraise lime rotative carbure SPG ogive

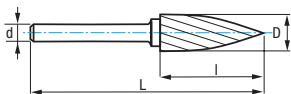


**MD  
HM  
Carbure**

**MD/HM  
+  
ALTIN**

**Norma  
SPG  
Norm**

**Tipo  
G  
Type**



**MAT. NO FERROSOS**  
Non-Ferrous Mat.  
Mat. non ferreux



**USO GENERAL**  
General Purpose  
Utilisation Générale



**VIRUTA CORTA**  
Short Chipping  
Copeaux Courts



**MATERIALES DUROS**  
Hard Materials  
Matériaux Durs

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Teeth / Denture | Dentado |         |   | Dentado |         |   | Dentado |         |   |       |         |       |
|---------|---------|---------|---------|-----------------|---------|---------|---|---------|---------|---|---------|---------|---|-------|---------|-------|
|         |         |         |         |                 | 1       | Nº Art. | € | 3       | Nº Art. | € | 4       | Nº Art. | € | 6     | Nº Art. | €     |
| 3,00    | 3,00    | 38,00   | 14,00   | 55783           |         |         |   | 44466   |         |   | 44472   |         |   | 44487 |         | 66505 |
| 6,00    | 6,00    | 50,00   | 18,00   | 55784           |         |         |   | 44467   |         |   | 44473   |         |   | 44488 |         | 66506 |
| 8,00    | 6,00    | 64,00   | 19,00   | 55785           |         |         |   | 44468   |         |   | 44474   |         |   | 44494 |         |       |
| 9,60    | 6,00    | 64,00   | 19,00   | 44463           |         |         |   | 44469   |         |   | 44475   |         |   | 44500 |         | 55882 |
| 12,70   | 6,00    | 70,00   | 25,00   | 44464           |         |         |   | 44470   |         |   | 44476   |         |   | 44512 |         | 27566 |
| 12,70   | 8,00    | 70,00   | 25,00   | 55787           |         |         |   | 17105   |         |   |         |         |   | 55786 |         |       |
| 16,00   | 6,00    | 70,00   | 25,00   |                 |         |         |   |         |         |   | 44482   |         |   |       |         |       |
| 16,00   | 6,00    | 75,00   | 30,00   | 44465           |         |         |   | 44471   |         |   |         |         |   | 44518 |         |       |
| 16,00   | 8,00    | 70,00   | 25,00   | 55790           |         |         |   | 55788   |         |   |         |         |   | 55789 |         |       |

# Ref. 9255

## FRESA ROTATIVA MD SKM CÓNICA

Cone SKM HM Rotary Burr

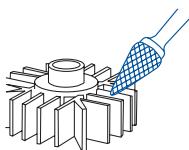
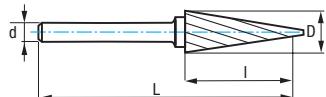
Fraise lime rotative carbure SKM conique



MD  
HM  
Carbure

Norma  
SKM  
Norm

Tipo  
M  
Type



MAT. NO FERROSOS  
Non-Ferrous Mat.  
Mat. non ferreux



USO GENERAL  
General Purpose  
Utilisation Générale



VIRUTA CORTA  
Short Chipping  
Copeaux Courts



MATERIALES DUROS  
Hard Materials  
Matériaux Durs

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Ang. | Dentado<br>Teeth / Denture<br>1 | Nº Art. | € | Dentado<br>Teeth / Denture<br>3 | Nº Art. | € | Dentado<br>Teeth / Denture<br>4 | Nº Art. | € | Dentado<br>Teeth / Denture<br>6 | Nº Art. | € |
|---------|---------|---------|---------|------|---------------------------------|---------|---|---------------------------------|---------|---|---------------------------------|---------|---|---------------------------------|---------|---|
| 6,00    | 6,00    | 50,00   | 20,00   | 14°  | 55817                           |         |   | 44530                           |         |   | 44598                           |         |   | 44616                           |         |   |
| 6,30    | 3,00    | 49,00   | 12,70   | 22°  | 55816                           |         |   | 44524                           |         |   | 44595                           |         |   | 44613                           |         |   |
| 8,00    | 6,00    | 64,00   | 18,00   | 22°  |                                 |         |   | 44583                           |         |   | 44601                           |         |   | 44617                           |         |   |
| 9,60    | 6,00    | 64,00   | 16,00   | 28°  | 55818                           |         |   | 44586                           |         |   | 44604                           |         |   | 44619                           |         |   |
| 12,70   | 6,00    | 71,00   | 22,00   | 28°  | 25335                           |         |   | 44589                           |         |   | 44607                           |         |   | 44620                           |         |   |
| 12,70   | 8,00    | 71,00   | 22,00   | 28°  |                                 |         |   | 55819                           |         |   |                                 |         |   | 55820                           |         |   |
| 16,00   | 6,00    | 71,00   | 25,00   | 31°  |                                 |         |   | 44592                           |         |   | 44610                           |         |   | 44622                           |         |   |
| 16,00   | 8,00    | 71,00   | 25,00   | 31°  |                                 |         |   | 55821                           |         |   |                                 |         |   | 55822                           |         |   |

# Ref. 9256

## FRESA ROTATIVA MD KSK CÓNICA 90°

90° Cone KSK HM Rotary Burr

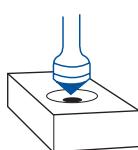
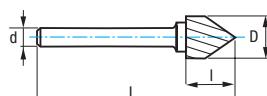
Fraise lime rotative carbure KSK conique 90°



MD  
HM  
Carbure

Norma  
KSK  
Norm

Tipo  
K  
Type



USO GENERAL  
General Purpose  
Utilisation Générale



VIRUTA CORTA  
Short Chipping  
Copeaux Courts



MATERIALES DUROS  
Hard Materials  
Matériaux Durs

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Teeth / Denture<br>3 | Nº Art. | € | Dentado<br>Teeth / Denture<br>4 | Nº Art. | € | Dentado<br>Teeth / Denture<br>6 | Nº Art. | € |
|---------|---------|---------|---------|----------------------|---------|---|---------------------------------|---------|---|---------------------------------|---------|---|
| 6,00    | 6,00    | 50,00   | 3,00    | 3                    | 44625   |   | 44628                           |         |   | 44631                           |         |   |
| 12,70   | 6,00    | 55,00   | 6,30    | 3                    | 44626   |   | 44629                           |         |   | 44632                           |         |   |
| 12,70   | 8,00    | 55,00   | 6,30    | 3                    | 55802   |   |                                 |         |   | 55803                           |         |   |
| 16,00   | 6,00    | 57,00   | 8,00    | 3                    | 55796   |   |                                 |         |   | 55797                           |         |   |
| 16,00   | 8,00    | 57,00   | 8,00    | 3                    | 55804   |   |                                 |         |   | 55805                           |         |   |
| 19,00   | 6,00    | 59,00   | 9,50    | 3                    | 55798   |   |                                 |         |   | 55799                           |         |   |
| 25,00   | 6,00    | 61,00   | 12,70   | 3                    | 55800   |   |                                 |         |   | 55801                           |         |   |

# Ref. 9257

## FRESA ROTATIVA MD TRE GOTA

Oval TRE HM Rotary Burr

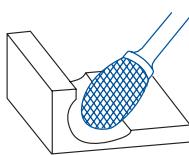
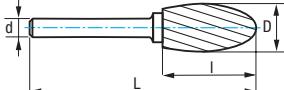
Fraise lime rotative carbure TRE ovale



**MD  
HM  
Carbure**

**Norma  
TRE  
Norm**

**Tipo  
E  
Type**



**MAT. NO FERROSOS**  
Non-Ferrous Mat.  
Mat. non ferreux



**USO GENERAL**  
General Purpose  
Utilisation Générale



**VIRUTA CORTA**  
Short Chipping  
Copeaux Courts



**MATERIALES DUROS**  
Hard Materials  
Matériaux Durs

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Dentado<br>Teeth / Denture |   | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
|         |         |         |         | Nº Art.                    | € |
| 3,00    | 3,00    | 38,00   | 6,00    | 55733                      |   | 44637                      |   | 44648                      |   | 44655                      |   |
| 6,00    | 6,00    | 50,00   | 10,00   | 55735                      |   | 44640                      |   | 44650                      |   | 44657                      |   |
| 6,30    | 3,00    | 42,00   | 9,50    | 55734                      |   | 44638                      |   | 44649                      |   | 44656                      |   |
| 8,00    | 6,00    | 60,00   | 15,00   | 55737                      |   | 44643                      |   | 44651                      |   | 44658                      |   |
| 9,60    | 6,00    | 61,00   | 16,00   | 44634                      |   | 44644                      |   | 44652                      |   | 44659                      |   |
| 12,70   | 6,00    | 67,00   | 22,00   | 44635                      |   | 44646                      |   | 44653                      |   | 44660                      |   |
| 12,70   | 8,00    | 67,00   | 22,00   | 55746                      |   | 55743                      |   |                            |   | 55744                      |   |
| 16,00   | 6,00    | 70,00   | 25,00   | 55738                      |   | 44647                      |   | 44654                      |   | 44661                      |   |
| 16,00   | 8,00    | 70,00   | 25,00   | 55749                      |   | 55747                      |   |                            |   | 55748                      |   |
| 19,00   | 6,00    | 70,00   | 25,00   | 55741                      |   | 55739                      |   |                            |   | 55740                      |   |

# Ref. 9258

## FRESA ROTATIVA MD KUD ESFÉRICA

Ball KUD HM Rotary Burr

Fraise lime rotative carbure KUD sphérique

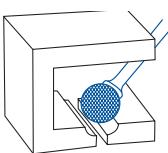
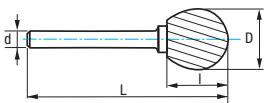


**MD  
HM  
Carbure**

**MD/HM  
+  
ALTIN**

**Norma  
KUD  
Norm**

**Tipo  
D  
Type**



**MATERIALES NO FERROSOS**  
Non-Ferrous Materials  
Matériaux non ferreux



**USO GENERAL**  
General Purpose  
Utilisation Générale



**VIRUTA CORTA**  
Short Chipping  
Copeaux Courts



**MATERIALES DUROS**  
Hard Materials  
Matériaux Durs

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Dentado<br>Teeth / Denture |       | Dentado<br>Teeth / Denture |   | Dentado<br>Teeth / Denture |   | Dentado<br>Teeth / Denture |   |
|---------|---------|---------|---------|----------------------------|-------|----------------------------|---|----------------------------|---|----------------------------|---|
|         |         |         |         | Nº Art.                    | €     | Nº Art.                    | € | Nº Art.                    | € | Nº Art.                    | € |
| 3,00    | 3,00    | 38,00   | 2,50    | 55713                      |       | 44705                      |   | 44712                      |   | 44719                      |   |
| 6,00    | 6,00    | 50,00   | 4,70    | 55716                      |       | 44707                      |   | 44714                      |   | 44721                      |   |
| 6,30    | 3,00    | 38,00   | 5,00    | 55714                      |       | 44706                      |   | 44713                      |   | 44720                      |   |
| 8,00    | 6,00    | 52,00   | 6,00    | 55717                      |       | 44708                      |   | 44715                      |   | 44722                      |   |
| 9,60    | 6,00    | 54,00   | 8,00    | 44662                      | 55869 | 44709                      |   | 44716                      |   | 44723                      |   |
| 12,70   | 6,00    | 56,00   | 11,00   | 44671                      | 55870 | 44710                      |   | 44717                      |   | 44724                      |   |
| 12,70   | 8,00    | 56,00   | 11,00   | 55728                      |       | 55725                      |   |                            |   | 55726                      |   |
| 16,00   | 6,00    | 59,00   | 14,00   | 58481                      |       | 44711                      |   | 44718                      |   | 44725                      |   |
| 16,00   | 8,00    | 59,00   | 14,00   | 55732                      |       | 55729                      |   |                            |   | 55731                      |   |
| 19,00   | 6,00    | 62,00   | 16,50   | 55720                      |       | 55718                      |   |                            |   | 55719                      |   |
| 25,00   | 6,00    | 67,00   | 22,00   | 55724                      |       | 55722                      |   |                            |   | 55723                      |   |

# Ref. 9266

## FRESA ROTATIVA MD B LLAMA

Flame B HM Rotary Burr

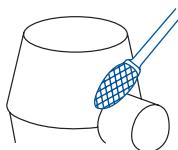
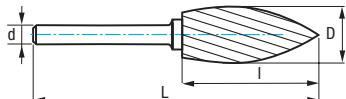
Fraise lime rotative carbure B flamme



**MD  
HM  
Carbure**

**Norma  
B  
Norm**

**Tipo  
H  
Type**



**MAT. NO FERROSOS**  
Non-Ferrous Mat.  
Mat. non ferreux



**USO GENERAL**  
General Purpose  
Utilisation Générale



**VIRUTA CORTA**  
Short Chipping  
Copeaux Courts



**MATERIALES DUROS**  
Hard Materials  
Matériaux Durs



| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Dentado<br>Teeth / Denture |   | Nº Art. | € | Dentado<br>Teeth / Denture |   | Nº Art. | € | Dentado<br>Teeth / Denture |   | Nº Art. | € | Dentado<br>Teeth / Denture |   | Nº Art. | € |
|---------|---------|---------|---------|----------------------------|---|---------|---|----------------------------|---|---------|---|----------------------------|---|---------|---|----------------------------|---|---------|---|
|         |         |         |         | 1                          | 3 |         |   | 4                          | 6 |         |   | 1                          | 3 |         |   | 4                          | 6 |         |   |
| 3,00    | 3,00    | 38,00   | 6,00    |                            |   | 44728   |   | 44735                      |   | 44757   |   |                            |   |         |   |                            |   |         |   |
| 6,00    | 3,00    | 43,00   | 10,00   |                            |   | 44729   |   | 44736                      |   | 44760   |   |                            |   |         |   |                            |   |         |   |
| 6,00    | 6,00    | 50,00   | 14,00   |                            |   | 44730   |   | 44737                      |   | 44763   |   |                            |   |         |   |                            |   |         |   |
| 8,00    | 6,00    | 64,00   | 19,00   | 55791                      |   | 44731   |   | 44738                      |   | 44766   |   |                            |   |         |   |                            |   |         |   |
| 9,60    | 6,00    | 65,00   | 19,00   | 44726                      |   | 44732   |   | 44739                      |   | 44769   |   |                            |   |         |   |                            |   |         |   |
| 12,70   | 6,00    | 77,00   | 32,00   | 44727                      |   | 44733   |   | 44740                      |   | 44771   |   |                            |   |         |   |                            |   |         |   |
| 12,70   | 8,00    | 77,00   | 32,00   |                            |   | 55792   |   |                            |   | 55793   |   |                            |   |         |   |                            |   |         |   |
| 16,00   | 6,00    | 81,00   | 36,00   | 44773                      |   | 44734   |   | 44742                      |   | 44772   |   |                            |   |         |   |                            |   |         |   |
| 16,00   | 8,00    | 81,00   | 36,00   |                            |   | 55794   |   |                            |   | 55795   |   |                            |   |         |   |                            |   |         |   |

# Ref. 9267

## FRESA ROTATIVA MD KEL CÓNICA REDONDEADA

Ball Nosed Cone KEL HM Rotary Burr

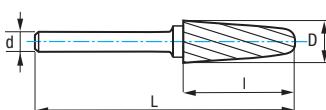
Fraise lime rotative carbure KEL conique rayon



**MD  
HM  
Carbure**

**Norma  
KEL  
Norm**

**Tipo  
L  
Type**



**MAT. NO FERROSOS**  
Non-Ferrous Mat.  
Mat. non ferreux



**USO GENERAL**  
General Purpose  
Utilisation Générale



**VIRUTA CORTA**  
Short Chipping  
Copeaux Courts



**MATERIALES DUROS**  
Hard Materials  
Matériaux Durs

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Ang.<br>10° | Dentado<br>Teeth / Denture |         | Nº Art. | € | Dentado<br>Teeth / Denture |   | Nº Art. | € | Dentado<br>Teeth / Denture |         | Nº Art. | € | Dentado<br>Teeth / Denture |  | Nº Art. | € |
|---------|---------|---------|---------|-------------|----------------------------|---------|---------|---|----------------------------|---|---------|---|----------------------------|---------|---------|---|----------------------------|--|---------|---|
|         |         |         |         |             | 1                          | 1 ALTIN |         |   | 3                          | 4 |         |   | 6                          | 6 ALTIN |         |   |                            |  |         |   |
| 3,00    | 3,00    | 38,00   | 14,00   | 10°         | 55806                      |         |         |   | 44776                      |   | 44783   |   | 44790                      |         |         |   |                            |  |         |   |
| 6,00    | 6,00    | 50,00   | 18,00   | 14°         | 55808                      |         |         |   | 44778                      |   | 44785   |   | 44792                      |         |         |   |                            |  |         |   |
| 6,30    | 3,00    | 48,00   | 15,80   | 22°         | 55807                      |         |         |   | 44777                      |   | 44784   |   | 44791                      |         |         |   |                            |  |         |   |
| 8,00    | 6,00    | 70,00   | 25,40   | 14°         | 55809                      |         |         |   | 44779                      |   | 44786   |   | 44793                      |         |         |   |                            |  |         |   |
| 10,00   | 6,00    | 65,00   | 20,00   | 14°         | 21959                      |         |         |   | 44780                      |   | 44787   |   | 44794                      |         |         |   |                            |  |         |   |
| 12,70   | 6,00    | 77,00   | 32,00   | 14°         | 44774                      | 66508   |         |   | 44781                      |   | 44788   |   | 44795                      |         | 20159   |   |                            |  |         |   |
| 12,70   | 8,00    | 77,00   | 32,00   | 14°         | 55812                      |         |         |   | 55810                      |   |         |   | 55811                      |         |         |   |                            |  |         |   |
| 16,00   | 6,00    | 78,00   | 33,00   | 14°         | 44775                      |         |         |   | 44782                      |   | 44789   |   | 44796                      |         |         |   |                            |  |         |   |
| 16,00   | 8,00    | 78,00   | 33,00   | 14°         | 55815                      |         |         |   | 55813                      |   |         |   | 55814                      |         |         |   |                            |  |         |   |

# Ref. 9268

## FRESA ROTATIVA MD RBF OJIVA REDONDEADA

Ball Nosed Tree RBF HM Rotary Burr

Fraise lime rotative carbure RBF Ogive Rayon

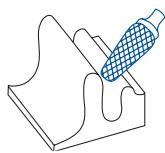
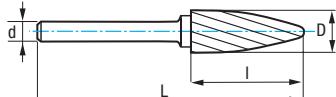


**MD  
HM  
Carbure**

**MD/HM  
+  
ALTIN**

**Norma  
RBF  
Norm**

**Tipo  
F  
Type**



**MATERIALES NO FERROSOS**  
Non-Ferrous Materials  
Matériaux non ferreux



**USO GENERAL**  
General Purpose  
Utilisation Générale



**VIRUTA CORTA**  
Short Chipping  
Copeaux Courts



**MATERIALES DUROS**  
Hard Materials  
Matériaux Durs

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Dentado<br>Teeth / Denture |         | Dentado<br>Teeth / Denture |       | Dentado<br>Teeth / Denture |         | Dentado<br>Teeth / Denture |   | Dentado<br>Teeth / Denture |   |
|---------|---------|---------|---------|----------------------------|---------|----------------------------|-------|----------------------------|---------|----------------------------|---|----------------------------|---|
|         |         |         |         | 1                          | 1 ALTIN | 3                          | 4     | 6                          | 6 ALTIN | Nº Art.                    | € | Nº Art.                    | € |
| 3,00    | 3,00    | 38,00   | 14,00   | 55753                      |         | 55750                      |       | 17118                      |         | 66503                      |   |                            |   |
| 6,00    | 6,00    | 50,00   | 18,00   | 55759                      |         | 44797                      | 44802 | 44808                      |         | 66504                      |   |                            |   |
| 6,30    | 3,00    | 45,00   | 12,70   | 55758                      |         | 55755                      |       | 55756                      |         |                            |   |                            |   |
| 8,00    | 6,00    | 65,00   | 20,00   | 55760                      |         | 44798                      | 44803 | 44809                      |         |                            |   |                            |   |
| 9,60    | 6,00    | 64,00   | 19,00   | 55761                      | 55880   | 44799                      | 44804 | 44811                      | 17250   |                            |   |                            |   |
| 12,70   | 6,00    | 70,00   | 25,00   | 55762                      | 55881   | 44800                      | 44805 | 44814                      | 23849   |                            |   |                            |   |
| 12,70   | 8,00    | 70,00   | 25,00   | 55777                      |         | 55774                      |       | 55776                      |         |                            |   |                            |   |
| 16,00   | 6,00    | 70,00   | 25,00   | 55765                      |         | 44801                      | 44806 | 44817                      |         |                            |   |                            |   |
| 16,00   | 8,00    | 70,00   | 25,00   | 55782                      |         | 55779                      |       | 55780                      |         |                            |   |                            |   |
| 19,00   | 6,00    | 83,00   | 38,00   | 55771                      |         | 55768                      |       | 55769                      |         |                            |   |                            |   |

# Ref. 9240

## FRESA ROTATIVA MD ZYA-S LARGA

Long ZYA-S HM Rotary Burr

Fraise lime rotative carbure ZYA-S longue



**MD  
HM  
Carbure**

**Norma  
ZYA-S  
Norm**



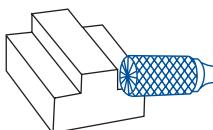
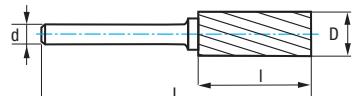
**Tipo  
B  
Type**



**USO GENERAL**  
General Purpose  
Utilisation Générale



**MATERIALES DUROS**  
Hard Materials  
Matériaux Durs



**Dentado  
Teeth / Denture**

**D  
mm**

**d  
mm**

**L  
mm**

**I  
mm**

**3**

**Nº Art.**

**€**

**6,00 6,00 150,00 18,00 55832**

**9,60 6,00 172,00 19,00 55834**

**12,70 6,00 178,00 25,00 55836**

**Nº Art.**

**€**

**55833**

**55835**

**55837**

Ref. **9230**

## FRESA ROTATIVA MD ZYA LARGA

Long ZYA HM Rotary Burr

Fraise lime rotative Carbure ZYA longue

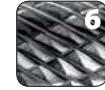
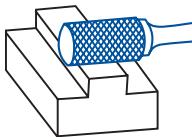
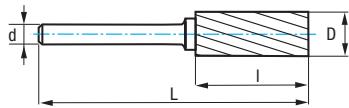


**MD**  
HM  
Carbure

**Norma**  
ZYA  
Norm



**Tipo**  
A  
Type



MATERIALES DUROS

Hard Materials

Matériaux Durs

Dentado

Teeth / Denture

**6**

| D<br>mm      | d<br>mm     | L<br>mm | I<br>mm | Nº Art. | € |
|--------------|-------------|---------|---------|---------|---|
| <b>6,00</b>  | <b>6,00</b> | 150,00  | 18,00   | 55829   |   |
| <b>9,60</b>  | <b>6,00</b> | 172,00  | 19,00   | 55830   |   |
| <b>12,70</b> | <b>6,00</b> | 178,00  | 25,00   | 55831   |   |



Ref. **9231**

## FRESA ROTATIVA MD WRC RADIAL LARGA

Long Radial WRC HM Rotary Burr

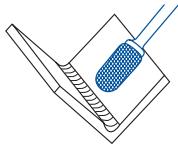
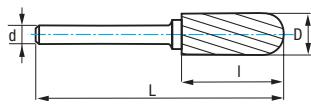
Fraise lime rotative carbure WRC hemisphérique longue



**MD**  
HM  
Carbure

**Norma**  
WRC  
Norm

**Tipo**  
C  
Type



MATERIALES DUROS

Hard Materials

Matériaux Durs

Dentado

Teeth / Denture

**6**

| D<br>mm      | d<br>mm     | L<br>mm | I<br>mm | Nº Art. | € |
|--------------|-------------|---------|---------|---------|---|
| <b>6,00</b>  | <b>6,00</b> | 150,00  | 18,00   | 55838   |   |
| <b>9,60</b>  | <b>6,00</b> | 172,00  | 19,00   | 55839   |   |
| <b>12,70</b> | <b>6,00</b> | 178,00  | 25,00   | 55840   |   |

# Ref. 9237

## FRESA ROTATIVA MD TRE GOTA LARGA

Long Oval TRE HM Rotary Burr

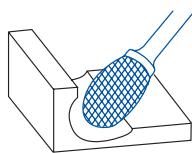
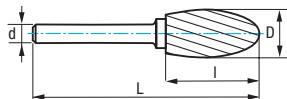
Fraise lime rotative carbure TRE ovale longue



**MD  
HM  
Carbure**

**Norma  
TRE  
Norm**

**Tipo  
E  
Type**



**USO GENERAL**  
General Purpose  
Utilisation Générale



**MATERIALES Duros**  
Hard Materials  
Matériaux Durs

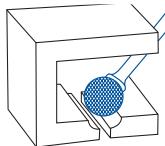
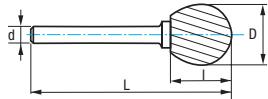
| D<br>mm      | d<br>mm     | L<br>mm | I<br>mm | <b>Dentado</b>  |   | <b>Nº Art.</b> | <b>€</b> |
|--------------|-------------|---------|---------|-----------------|---|----------------|----------|
|              |             |         |         | Teeth / Denture | 3 |                |          |
| <b>9,60</b>  | <b>6,00</b> | 168,00  | 16,00   | 55849           |   | 55851          |          |
| <b>12,70</b> | <b>6,00</b> | 184,00  | 22,00   | 55852           |   | 55854          |          |

# Ref. 9238

## FRESA ROTATIVA MD KUD ESFÉRICA LARGA

Long Ball KUD HM Rotary Burr

Fraise lime rotative carbure KUD sphérique longue



**MD  
HM  
Carbure**

**Norma  
KUD  
Norm**

**Tipo  
D  
Type**



**USO GENERAL**  
General Purpose  
Utilisation Générale



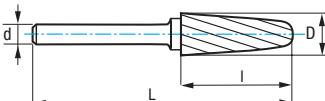
**MATERIALES Duros**  
Hard Materials  
Matériaux Durs

| D<br>mm      | d<br>mm     | L<br>mm | I<br>mm | <b>Dentado</b>  |   | <b>Nº Art.</b> | <b>€</b> |
|--------------|-------------|---------|---------|-----------------|---|----------------|----------|
|              |             |         |         | Teeth / Denture | 3 |                |          |
| <b>8,00</b>  | <b>6,00</b> | 182,00  | 6,00    | 55841           |   | 55842          |          |
| <b>9,60</b>  | <b>6,00</b> | 170,00  | 8,00    | 55843           |   | 55845          |          |
| <b>12,70</b> | <b>6,00</b> | 175,00  | 11,00   | 55846           |   | 55848          |          |

Ref. **9247**

## FRESA ROTATIVA MD KEL CÓNICA REDONDEADA LARGA

Long Ball Nosed Cone KEL HM Rotary Burr  
Fraise lime rotative carbure KEL conique rayon longue



**MD**  
**HM**  
Carbure

**Norma**  
KEL  
Norm

**Tipo**  
L  
Type



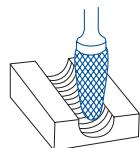
MATERIALES DUROS

Hard Materials

Matériaux Durs

**Dentado**  
Teeth / Denture  
**6**

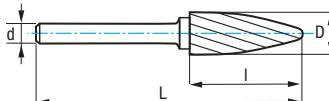
| D<br>mm      | d<br>mm     | L<br>mm | I<br>mm | Ang. |       |
|--------------|-------------|---------|---------|------|-------|
| <b>9,60</b>  | <b>6,00</b> | 183,00  | 30,00   | 14°  | 55858 |
| <b>12,70</b> | <b>6,00</b> | 185,00  | 30,20   | 14°  | 55860 |



Ref. **9248**

## FRESA ROTATIVA MD RBF OJIVA REDONDEADA LARGA

Long Ball Nosed Tree RBF HM Rotary Burr  
Fraise lime rotative carbure RBF ogive rayon longue



**MD**  
**HM**  
Carbure

**Norma**  
RBF  
Norm

**Tipo**  
F  
Type



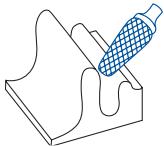
MATERIALES DUROS

Hard Materials

Matériaux Durs

**Dentado**  
Teeth / Denture  
**6**

| D<br>mm      | d<br>mm     | L<br>mm | I<br>mm | Ang.  |  |
|--------------|-------------|---------|---------|-------|--|
| <b>9,60</b>  | <b>6,00</b> | 172,00  | 19,00   | 55855 |  |
| <b>12,70</b> | <b>6,00</b> | 178,00  | 25,00   | 55857 |  |



# Ref. 9200

## JUEGOS FRESAS ROTATIVAS MD

HM Rotary Burr Sets

Jeux fraises limes rotatives carbure



**Mod. 1**  
**Set 5 Pcs**



**MAT. NO FERROSOS**  
Non-Ferrous Mat.  
Mat. non ferreux



**MATERIALES DUROS**  
Hard Materials  
Matériaux Durs

| Cont.<br>(1 x<br>ref.) | D<br>mm      | d<br>mm     | <b>Dentado</b><br>Teeth / Denture |         | <b>Dentado</b><br>Teeth / Denture |       |
|------------------------|--------------|-------------|-----------------------------------|---------|-----------------------------------|-------|
|                        |              |             | 1                                 | Nº Art. | €                                 | 6     |
| 9260                   |              |             |                                   |         |                                   |       |
| 9251                   | <b>12,70</b> | <b>6,00</b> |                                   | 60052   |                                   | 45810 |
| 9255                   |              |             |                                   |         |                                   |       |
| 9258                   | <b>9,60</b>  | <b>6,00</b> |                                   |         |                                   | 68857 |
| 9266                   |              |             |                                   |         |                                   |       |



**Mod. 2**  
**Set 10 Pcs**



**MATERIALES DUROS**  
Hard Materials  
Matériaux Durs

| Cont.<br>(1 x<br>ref.) | D<br>mm     | d<br>mm     | <b>Dentado</b><br>Teeth / Denture |         | Nº Art. | € |
|------------------------|-------------|-------------|-----------------------------------|---------|---------|---|
|                        |             |             | 6                                 | Nº Art. |         |   |
| 9260                   |             |             |                                   |         |         |   |
| 9250                   |             |             |                                   |         |         |   |
| 9251                   |             |             |                                   |         |         |   |
| 9254                   |             |             |                                   |         |         |   |
| 9255                   |             |             |                                   |         |         |   |
| <b>9257</b>            | <b>6,00</b> | <b>6,00</b> |                                   | 45811   |         |   |
| 9258                   |             |             |                                   |         |         |   |
| 9266                   |             |             |                                   |         |         |   |
| 9267                   |             |             |                                   |         |         |   |
| 9268                   |             |             |                                   |         |         |   |



**Mod. 3**  
**Set 8 Pcs**



**MATERIALES DUROS**  
Hard Materials  
Matériaux Durs

| Cont.<br>(1 x<br>ref.) | D<br>mm     | d<br>mm     | <b>Dentado</b><br>Teeth / Denture |         | Nº Art. | € |
|------------------------|-------------|-------------|-----------------------------------|---------|---------|---|
|                        |             |             | 6                                 | Nº Art. |         |   |
| 9260                   |             |             |                                   |         |         |   |
| 9250                   |             |             |                                   |         |         |   |
| 9251                   |             |             |                                   |         |         |   |
| 9254                   |             |             |                                   |         |         |   |
| 9257                   |             |             |                                   |         |         |   |
| <b>9258</b>            | <b>3,00</b> | <b>3,00</b> |                                   | 45813   |         |   |
| 9267                   |             |             |                                   |         |         |   |
| 9268                   |             |             |                                   |         |         |   |



**Mod. 4**  
**Set 3 Pcs**



**MATERIALES DUROS**  
Hard Materials  
Matériaux Durs

| Cont.<br>(1 x<br>ref.) | D<br>mm     | d<br>mm     | <b>Dentado</b><br>Teeth / Denture |         | Nº Art. | € |
|------------------------|-------------|-------------|-----------------------------------|---------|---------|---|
|                        |             |             | 6                                 | Nº Art. |         |   |
| 9260                   |             |             |                                   |         |         |   |
| <b>9251</b>            | <b>9,60</b> | <b>6,00</b> |                                   | 79826   |         |   |
| 9254                   |             |             |                                   |         |         |   |

## EXPOSITOR FRESAS ROTATIVAS

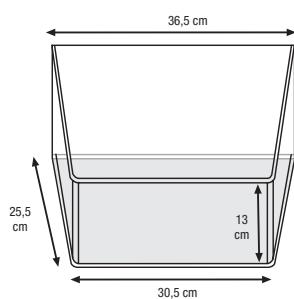
Rotary Burr Display

Présentoirs fraises limes rotatives carbure



**Set 48 Pcs**

| Nº Art. | € |
|---------|---|
| 57079   |   |



| Ref. | Diam.<br>mm | Nº<br>Art. | Uds. | Ref. | Diam.<br>mm | Nº<br>Art. | Uds. | Ref. | Diam.<br>mm | Nº<br>Art. | Uds. |
|------|-------------|------------|------|------|-------------|------------|------|------|-------------|------------|------|
| 9260 | 06,00X06,00 | 44141      | 2    | 9254 | 06,00X06,00 | 44488      | 2    | 9267 | 06,00X06,00 | 44792      | 2    |
|      | 08,00X06,00 | 44142      | 2    |      | 08,00X06,00 | 44494      | 2    |      | 08,00X06,00 | 44793      | 2    |
|      | 09,60X06,00 | 44143      | 2    |      | 09,60X06,00 | 44500      | 2    |      | 10,00X06,00 | 44794      | 2    |
|      | 12,70X06,00 | 44144      | 2    |      | 12,70X06,00 | 44512      | 2    |      | 12,70X06,00 | 44795      | 2    |
| 9251 | 06,00X06,00 | 44438      | 2    | 9258 | 06,00X06,00 | 44721      | 2    | 9268 | 06,00X06,00 | 44808      | 2    |
|      | 08,00X06,00 | 44439      | 2    |      | 08,00X06,00 | 44722      | 2    |      | 08,00X06,00 | 44809      | 2    |
|      | 09,60X06,00 | 44440      | 2    |      | 09,60X06,00 | 44723      | 2    |      | 09,60X06,00 | 44811      | 2    |
|      | 12,70X06,00 | 44441      | 2    |      | 12,70X06,00 | 44724      | 2    |      | 12,70X06,00 | 44814      | 2    |

# Ref. 9674

## FRESA RANURADO ALUCOBOND / DIBOND

Alucobond / Dibond Sheet Bending End Mill

Fraise rainurage Alucobond/Dibond



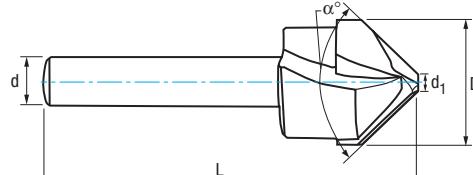
**MD  
HM  
Carbure**

**IZAR  
Std.**

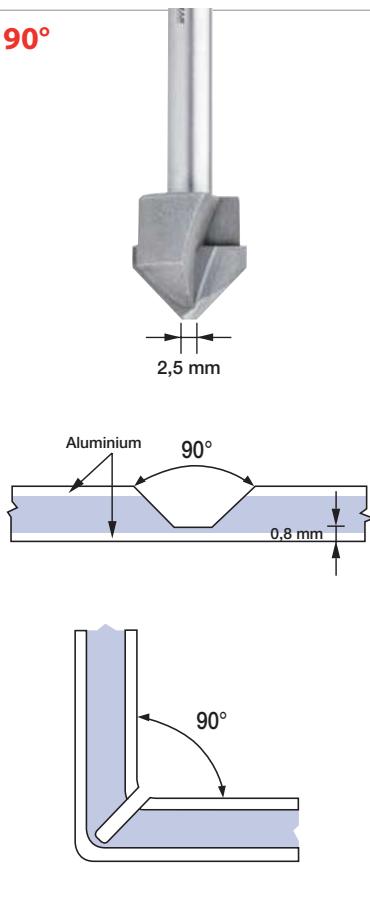


**12000-15000  
rpm**

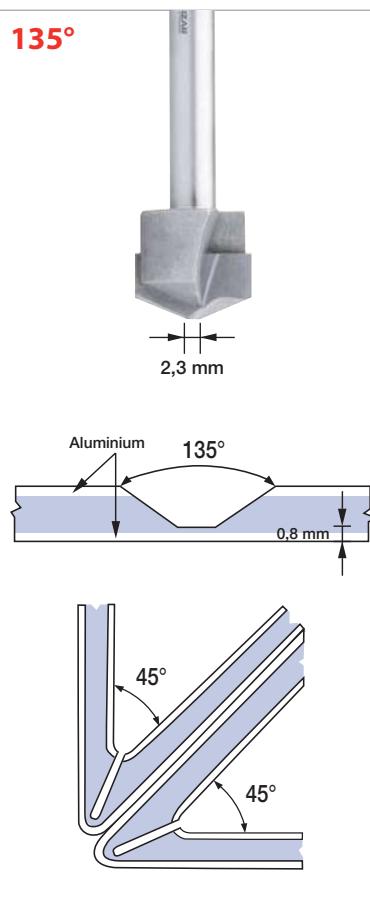
**Vf: 400-600  
mm/min**



**90°**



**135°**



- Fresa especial para ranurados en Alucobond, Dibond, Durabond, Alupanel, Plexiglas, Alpolic, ACP, ACM...

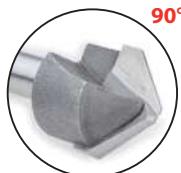
• Se recomienda cortar casi hasta el fondo para poder doblar las planchas fácilmente.

- Special end mill for bending sheets of Alucobond, Dibond, Durabond, Alupanel, Plexiglas, Alpolic, ACP, ACM...

• The material should be cut almost until the bottom part leaving little amount of material left, that way the sheet will be bended easily.

- Fraise spécial pour rainurage sur Alucobond, Dibond, Durabond, Alupanel, Plexiglas, Alpolic, ACP, ACM...

• Il est recommandé de couper presque jusqu'au fond pour pouvoir plier les plaques facilement.



**90°**

| D<br>mm      | d<br>mm | L<br>mm | d <sub>1</sub><br>mm | α ° | Nº<br>Art. | € |
|--------------|---------|---------|----------------------|-----|------------|---|
| <b>α=90°</b> |         |         |                      |     |            |   |
| 16           | 8       | 59      | 2,5                  | 90  | 81516      |   |
| 18           | 8       | 59      | 2,5                  | 90  | 81519      |   |
| 20           | 8       | 59      | 2,5                  | 90  | 81520      |   |



**135°**

| D<br>mm       | d<br>mm | L<br>mm | d <sub>1</sub><br>mm | α ° | Nº<br>Art. | € |
|---------------|---------|---------|----------------------|-----|------------|---|
| <b>α=135°</b> |         |         |                      |     |            |   |
| 16            | 8       | 59      | 2,3                  | 135 | 81521      |   |
| 18            | 8       | 59      | 2,3                  | 135 | 81522      |   |
| 20            | 8       | 59      | 2,3                  | 135 | 81523      |   |

# Ref. 9459

## FRESA 1Z GRABADO

1Z Engraving End Mill

Fraise 1Z gravure



**MD/HM/  
Carbure  
Micrograno**

**DIN  
6535 HA**



**IZAR  
std.**

**6000-  
10000  
r.p.m.**

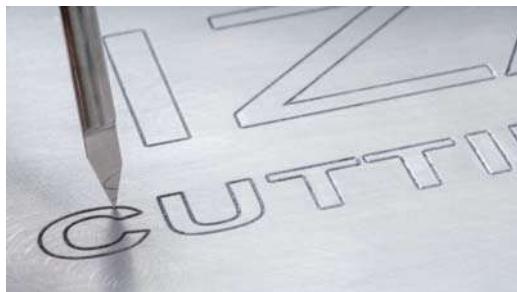
**Aceros  
<850 N/mm<sup>2</sup>  
Steel / Aciers**

**Cobre  
Copper  
Cuivre**

**Aluminio  
Aluminium  
Aluminio**

**Plásticos  
Plastics  
Plastiques**

**Madera  
Wood  
Bois**



- Afilado especial para grabado de metales, plásticos y maderas como: Aluminio, Cobre, Hierro, PVC, ABS, Metacrilato acrílico, Paneles bicolores, Madera MDF, etc.**

- Specially designed geometry for engraving on Metal, Plastic and Wood. Valid for Aluminum, Copper, Iron, PVC, ABS, Acrylic, Bi-color panel, MDF fibreboard, etc.**

- Géométrie spécial pour gravure de métaux, plastiques et bois telles que: Aluminium, cuivre, fer, PVC, ABS, méthacrylate acrylique, panneaux bicolores, bois MDF, etc.**

| D<br>mm | d<br>mm | L<br>mm | Nº<br>Art. | € |
|---------|---------|---------|------------|---|
|---------|---------|---------|------------|---|

| D<br>mm | d<br>mm | L<br>mm | Nº<br>Art. | € |
|---------|---------|---------|------------|---|
|---------|---------|---------|------------|---|

| D<br>mm | d<br>mm | L<br>mm | Nº<br>Art. | € |
|---------|---------|---------|------------|---|
|---------|---------|---------|------------|---|

| D<br>mm | d<br>mm | L<br>mm | Nº<br>Art. | € |
|---------|---------|---------|------------|---|
|---------|---------|---------|------------|---|

**$\alpha=30^\circ$**

|            |      |    |       |  |
|------------|------|----|-------|--|
| <b>0,1</b> | 3,00 | 38 | 81048 |  |
| <b>0,2</b> | 3,00 | 38 | 81049 |  |
| <b>0,4</b> | 3,00 | 38 | 81050 |  |
| <b>0,8</b> | 3,00 | 38 | 81051 |  |

**$\alpha=45^\circ$**

|            |      |    |       |  |
|------------|------|----|-------|--|
| <b>0,1</b> | 3,00 | 38 | 81052 |  |
| <b>0,2</b> | 3,00 | 38 | 81053 |  |
| <b>0,2</b> | 4,00 | 45 | 81062 |  |
| <b>0,2</b> | 6,00 | 50 | 81071 |  |
| <b>0,4</b> | 3,00 | 38 | 81054 |  |
| <b>0,4</b> | 4,00 | 45 | 81063 |  |
| <b>0,4</b> | 6,00 | 50 | 81072 |  |
| <b>0,8</b> | 4,00 | 45 | 81064 |  |
| <b>0,8</b> | 6,00 | 50 | 81077 |  |
| <b>2,0</b> | 6,00 | 50 | 81079 |  |

**$\alpha=60^\circ$**

|            |      |    |       |  |
|------------|------|----|-------|--|
| <b>0,1</b> | 3,00 | 38 | 81055 |  |
| <b>0,2</b> | 3,00 | 38 | 81056 |  |
| <b>0,2</b> | 4,00 | 45 | 81065 |  |
| <b>0,2</b> | 6,00 | 50 | 81080 |  |
| <b>0,4</b> | 3,00 | 38 | 81057 |  |
| <b>0,4</b> | 4,00 | 45 | 81066 |  |
| <b>0,4</b> | 6,00 | 50 | 81081 |  |
| <b>0,8</b> | 4,00 | 45 | 81067 |  |
| <b>0,8</b> | 6,00 | 50 | 81082 |  |
| <b>2,0</b> | 6,00 | 50 | 81083 |  |

**$\alpha=90^\circ$**

|            |      |    |       |  |
|------------|------|----|-------|--|
| <b>0,1</b> | 3,00 | 38 | 81058 |  |
| <b>0,2</b> | 3,00 | 38 | 81059 |  |
| <b>0,2</b> | 4,00 | 45 | 81068 |  |
| <b>0,2</b> | 6,00 | 50 | 81084 |  |
| <b>0,4</b> | 3,00 | 38 | 81060 |  |
| <b>0,4</b> | 4,00 | 45 | 81069 |  |
| <b>0,4</b> | 6,00 | 50 | 81086 |  |
| <b>0,8</b> | 4,00 | 45 | 81070 |  |
| <b>0,8</b> | 6,00 | 50 | 81088 |  |
| <b>2,0</b> | 6,00 | 50 | 81089 |  |

**ALTIN bajo demanda / upon request / sur demande**



**Set 4 Pcs**

| Cont.<br>D mm                                                                    | Nº<br>Art. | € |
|----------------------------------------------------------------------------------|------------|---|
| 0,1 mm <b>30°</b><br>0,2 mm <b>30°</b><br>0,4 mm <b>30°</b><br>0,8 mm <b>30°</b> | 81958      |   |

| Cont.<br>D mm                                                                    | Nº<br>Art. | € |
|----------------------------------------------------------------------------------|------------|---|
| 0,1 mm <b>30°</b><br>0,1 mm <b>45°</b><br>0,1 mm <b>60°</b><br>0,1 mm <b>90°</b> | 81959      |   |

# Ref. 9419

## FRESA FRONTAL ACABADO METAL DURO 1Z ALTO RENDIMIENTO

High Performance 1Z HM Finishing End Mill

Fraise finition carbure 1Z haut rendement



MD/HM Carbure  
Micrograno+

K10F  
+  
ALTIN

W



Tol.  
D (h10)  
d (h6)



Aluminio  
Aluminium

Plásticos  
Plastics  
Plastiques

**ALTIN**  
Mayor resistencia al desgaste  
Higher Wear Resistance  
Plus haute à l'usure



| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Z | Nº Art.<br>MD/HM | € | Nº Art.<br>ALTIN | € |
|---------|---------|---------|---------|---|------------------|---|------------------|---|
| 3,00    | 3,00    | 38      | 12      | 1 | 58984            |   | 59195            |   |
| 4,00    | 4,00    | 40      | 15      | 1 | 58856            |   | 59196            |   |
| 5,00    | 5,00    | 50      | 16      | 1 | 58857            |   | 59197            |   |
| 6,00    | 6,00    | 50      | 18      | 1 | 58859            |   | 59198            |   |
| 8,00    | 8,00    | 63      | 22      | 1 | 58860            |   | 59199            |   |
| 10,00   | 10,00   | 72      | 30      | 1 | 58862            |   | 59201            |   |

# Ref. 9411

## FRESA FRONTAL 1Z ALUMINIO METAL DURO

HM Aluminium 1Z End Mill

Fraise 1Z Aluminium carbure



MD/HM Carbure  
Micrograno+

K10F  
+  
ALTIN

W



Tol.  
D (h10)  
d (h6)



**ALTIN**  
Mayor resistencia al desgaste  
Higher Wear Resistance  
Plus haute à l'usure



| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Z | Nº Art.<br>MD/HM | € | Nº Art.<br>ALTIN | € |
|---------|---------|---------|---------|---|------------------|---|------------------|---|
| 3,00    | 3,00    | 38      | 12      | 1 | 13075            |   | 13114            |   |
| 4,00    | 4,00    | 40      | 12      | 1 | 13078            |   | 13123            |   |
| 5,00    | 5,00    | 50      | 12      | 1 | 13084            |   | 13126            |   |
| 6,00    | 6,00    | 50      | 14      | 1 | 13096            |   | 13135            |   |
| 8,00    | 8,00    | 63      | 15      | 1 | 13105            |   | 13138            |   |
| 10,00   | 10,00   | 72      | 15      | 1 | 13111            |   | 13144            |   |



Ref. **4412**

## FRESA FRONTAL ACABADO HSS 1Z ALUMINIO

Aluminium 1Z HSS Finishing End Mill

Fraise finition HSS 1Z Aluminium



**HSS**

IZAR  
Std.  
W

**Serie Corta**  
Short Length  
Série courte

DIN  
1835 A

d= 8-10  
mm

Tol.\*  
D (k10)  
d (h6)

\* $\varnothing D = \varnothing d \Rightarrow$  Tol.  
D (js14)  
d (h6)

**Aluminio**  
Aluminium

**Termoplásticos**  
Thermoplastics  
Thermoplastiques



| D<br>mm      | d<br>mm | L<br>mm | I<br>mm |   | Z     | Nº<br>Art. | € |
|--------------|---------|---------|---------|---|-------|------------|---|
| <b>3,00</b>  | 8       | 60      | 12      | 1 | 44087 |            |   |
| <b>4,00</b>  | 8       | 60      | 12      | 1 | 44090 |            |   |
| <b>5,00</b>  | 8       | 60      | 12      | 1 | 44093 |            |   |
| <b>6,00</b>  | 8       | 60      | 14      | 1 | 44096 |            |   |
| <b>7,00</b>  | 8       | 60      | 14      | 1 | 44099 |            |   |
| <b>8,00</b>  | 8       | 80      | 15      | 1 | 44102 |            |   |
| <b>10,00</b> | 10      | 80      | 15      | 1 | 44105 |            |   |

Ref. **4414**

## FRESA FRONTAL ACABADO HSS 1Z ALUMINIO

Aluminium 1Z HSS Finishing End Mill

Fraise finition HSS 1Z Aluminium



**HSS**

IZAR  
Std.  
W

**Serie Larga**  
Long Series  
Série longue

DIN  
1835 A

d= 8-10  
mm

Tol.\*  
D (k10)  
d (h6)

\* $\varnothing D = \varnothing d \Rightarrow$  Tol.  
D (js14)  
d (h6)

**Aluminio**  
Aluminium

**Termoplásticos**  
Thermoplastics  
Thermoplastiques



| D<br>mm      | d<br>mm | L<br>mm | I<br>mm | Y<br>mm |   | Z     | Nº<br>Art. | € |
|--------------|---------|---------|---------|---------|---|-------|------------|---|
| <b>4,00</b>  | 8       | 80      | 16      | 29      | 1 | 44120 |            |   |
| <b>5,00</b>  | 8       | 80      | 16      | 29      | 1 | 44123 |            |   |
| <b>6,00</b>  | 8       | 90      | 16      | 29      | 1 | 44126 |            |   |
| <b>8,00</b>  | 8       | 100     | 28      | 40      | 1 | 44129 |            |   |
| <b>10,00</b> | 10      | 120     | 40      | 40      | 1 | 29178 |            |   |



# HOJAS DE SIERRA DE CINTA

## Band Saw Blades

### Lames de scie à ruban

## SELECCIÓN DE LA HOJA CORRECTA / Selecting the right Blade / Selection adaptée

### 1. Longitud de la Cinta (L)

La dimensión de la cinta depende únicamente de la máquina de corte empleada.

### 2. Ancho de la Cinta (A)

En las máquinas horizontales la anchura de la cinta es especificada por el fabricante.

Las máquinas verticales permiten mayores variaciones en la anchura de la cinta.

Sin embargo, la norma general es que cuanto más ancha es la hoja de sierra de cinta, mayor es su estabilidad.

Para el corte de contornos, el radio más pequeño a cortar limita el ancho de la cinta.

### 3. Espesor de la Cinta (E)

Cuanto más ancha es la hoja de sierra de cinta, mayor es su espesor.

### 4. Dentado (TPI)

El dentado es el nº de dientes por pulgada (25,4 mm).

Los dentados se diferencian en constantes, paso de diente uniforme, y variables, con diferente paso de diente dentro de cada intervalo.

Los dentados variables se definen con dos medidas, p.e. 2-3 TPI: 2 TPI significa el paso de diente máximo, y 3 TPI significa el paso de diente mínimo en el intervalo de dentado.

Aquí, la longitud de contacto de la sierra de cinta con la pieza a cortar es decisiva.

### 5. Forma Diente (TZ)

#### Diente estándar (S)

Ángulo desprendimiento 0°:

- materiales de viruta corta
- aceros de alto contenido en carbono
- preferiblemente acero de herramienta y hierro fundido
- materiales de poca sección de corte
- perfiles de pared delgada

#### Diente de garra (K)

Ángulo de desprendimiento positivo para macizos:

- empleo universal
- metales no ferrosos y aceros con un contenido en carbono de < 0,8%
- aceros estructurales, aceros para extrusión en frío y aceros templados

### 1. Band Length (L)

The band dimension individually depends on the used cutting machine.

### 2. Band Width (A)

With horizontal machines the band width is specified by the manufacturer.

Vertical band saw machines allow higher variations of the band width.

However, the general rule is the wider the band saw blade the higher its stability.

In case of contour cuts the smallest radius to be cut is the limiting factor for the band width.

### 3. Band Thickness (E)

The wider the band saw blade the higher its thickness.

### 4. Tooth pitch (TPI)

Tooth pitch is the number of teeth per inch (25,4 mm).

A difference is made between constant tooth pitches with regular tooth distance and variable tooth pitches with differing tooth distance within one interval.

Variable tooth pitches are marked by two measures, e.g. 2-3 TPI: 2 TPI signifies the maximum tooth distance and 3 TPI signifies the minimum tooth distance in the toothed interval.

Here the contact length of the blade in the work piece is decisive.

### 5. Tooth Shape (TZ)

#### Raker tooth (S)

0° rake angle for:

- short-chipping materials
- steels with high carbon content
- preferably tool steel and cast iron
- materials with small cross-sections
- thin-walled profiles

#### Hook tooth (K)

Positive rake angle for solids:

- universal use
- non-ferrous metals and steels with a carbon content of < 0,8%
- structural steels, steels for cold extrusion, tempered steels

### 1. Longueur de Lame (L)

La dimension d'une lame dépend de la machine utilisée.

### 2. Largeur de la Lame (A)

Sur des machines horizontales, la largeur de la lame est spécifiée par le fabricant.

Les machines verticales permettent de plus grandes variations dans les largeurs de lames.

La règle est généralement la suivante: Plus la lame est large, plus la rigidité est importante.

En cas de contournage, la largeur du ruban est limitée par le plus petit rayon à scier.

### 3. Epaisseur de Lame (E)

Plus la lame est large, plus la épaisseur est importante.

### 4. Dentures (TPI)

La denture est au nº de dents par pouce (25,4 mm).

Une différence réside entre les dentures constantes, où l'écart entre deux pointes de dents reste égal et les dentures variables, où les valeurs des pas de dents sont différentes.

La denture variable est caractérisée par deux chiffres, p.e. 2-3 TPI: 2 TPI désigne l'écart maxi entre les dents et le chiffre 3 TPI l'écart mini entre les dents sur une séquence de denture.

La surface de contact de la lame sur la pièce à débiter est décisive.

### 5. Forme de Dent (TZ)

#### Dent standard (S)

Angle de coupe 0° pour:

- matériaux à copeaux courts
- aciers à forte teneur en carbone
- les fontes et aciers à outil
- pièces de petites sections
- profils à parois minces

#### Dent griffe (K)

Angle de coupe positif pour matériaux pleins:

- usage universel
- métaux non ferreux et aciers à teneur en carbone de < 0,8%
- aciers de construction, aciers pour extrusion à froid et aciers trempés

### Ancho cinta y radio más pequeño

#### Band widths and smallest radius

Largeurs de lames et plus petit rayon

|                |
|----------------|
| 20 mm; r = 140 |
| 16 mm; r = 95  |
| 13 mm; r = 65  |
| 10 mm; r = 40  |
| 8 mm; r = 30   |
| 6 mm; r = 16   |
| 4 mm; r = 8    |
| 3 mm; r = 3    |

### Dentado constante

#### Constant tooth pitch

Denture constante



### Dentado variable

#### Variable tooth pitch

Denture variable

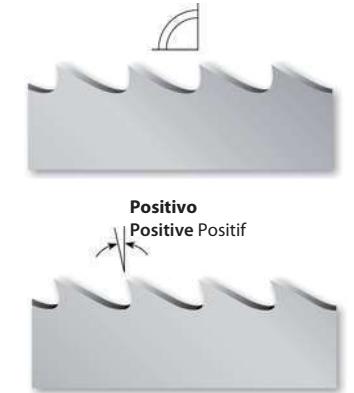


### Tabla selección dentado

#### Tooth selection table

Tableau sélection denture

| Dentado<br>Tooth<br>Denture | Perfil<br>Profile<br>Profil | Macizo<br>Solid<br>Plein |
|-----------------------------|-----------------------------|--------------------------|
| 10 / 14                     | 0-1 mm                      | 0-10 mm                  |
| 8 / 12                      | 1-2,5 mm                    | 10-20 mm                 |
| 6 / 10                      | 2,5-5 mm                    | 20-40 mm                 |
| 5 / 8                       | 5-7 mm                      | 40-50 mm                 |
| 4 / 6                       | 7-10 mm                     | 50-90 mm                 |
| 3 / 4                       | >10 mm                      | 90-120 mm                |
| 2 / 3                       |                             | >120 mm                  |
| 1,4 / 2                     |                             | >250 mm                  |

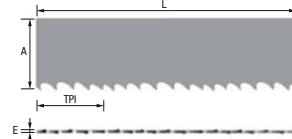


# Ref. 4223

## HOJA DE SIERRA DE CINTA HSSE 8% Co IZARFLEX

IZARFLEX HSSE 8% Co Band Saw Blade

Lame de scie à ruban HSSE 8% Co IZARFLEX



**HSSE  
8% Co**



**Aceros  
<850 N/mm<sup>2</sup>  
Steel / Aciers**

**Aceros  
<1000 N/mm<sup>2</sup>  
Steel / Aciers**

**Cobre  
Copper  
Cuivre**

**Aluminio  
Aluminium**

**Plásticos  
Plastics  
Plastiques**

Ideal para trabajos de taller exigentes, con los dientes de una calidad especial resistente al desgaste. Fleje flexible, bimetal, combina dentados 0 y +

New!

Ideal for heavy duty workshop cutting tasks, with special wear resistant quality teeth. Flexible strip, bimetal, 0 & + teeth combined.

New!

Idéal pour des travaux d'atelier exigeants, avec dents d'une qualité spéciale résistante à l'usure. Feuillard Flexible, bimétal, possibilité dentures 0 et +

New!

| L<br>mm | A<br>mm | E<br>mm | €<br>1 ud. | L<br>mm | A<br>mm | E<br>mm | €<br>1 ud. | L<br>mm | A<br>mm | E<br>mm | €<br>1 ud. | L<br>mm | A<br>mm | E<br>mm | €<br>1 ud. |
|---------|---------|---------|------------|---------|---------|---------|------------|---------|---------|---------|------------|---------|---------|---------|------------|
| 1030    | 13      | 0,65    | 3          | 2120    | 13      | 0,65    | 3          | 2110    | 20      | 0,90    | 2          | 2060    | 27      | 0,90    | 2          |
| 1080    |         |         |            | 2125    |         |         |            | 2115    |         |         |            | 2070    |         |         |            |
| 1104    |         |         |            | 2150    |         |         |            | 2120    |         |         |            | 2080    |         |         |            |
| 1115    |         |         |            | 2230    |         |         |            | 2130    |         |         |            | 2085    |         |         |            |
| 1125    |         |         |            | 2240    |         |         |            | 2140    |         |         |            | 2090    |         |         |            |
| 1130    |         |         |            | 2242    |         |         |            | 2215    |         |         |            | 2100    |         |         |            |
| 1138    |         |         |            | 2390    |         |         |            | 2225    |         |         |            | 2110    |         |         |            |
| 1140    |         |         |            | 2440    |         |         |            | 2240    |         |         |            | 2140    |         |         |            |
| 1270    |         |         |            | 2490    |         |         |            | 2265    |         |         |            | 2145    |         |         |            |
| 1300    |         |         |            | 2500    |         |         |            | 2300    |         |         |            | 2150    |         |         |            |
| 1310    |         |         |            | 2550    |         |         |            | 2355    |         |         |            | 2155    |         |         |            |
| 1325    |         |         |            | 2560    |         |         |            | 2360    |         |         |            | 2360    |         |         |            |
| 1328    |         |         |            | 2580    |         |         |            | 2362    |         |         |            | 2375    |         |         |            |
| 1330    |         |         |            | 2735    |         |         |            | 2365    |         |         |            | 2400    |         |         |            |
| 1335    |         |         |            | 2800    |         |         |            | 2370    |         |         |            | 2410    |         |         |            |
| 1340    |         |         |            | 2840    |         |         |            | 2375    |         |         |            | 2440    |         |         |            |
| 1365    |         |         |            | 2845    |         |         |            | 2380    |         |         |            | 2445    |         |         |            |
| 1385    |         |         |            | 2890    |         |         |            | 2400    |         |         |            | 2450    |         |         |            |
| 1400    |         |         |            | 2900    |         |         |            | 2450    |         |         |            | 2455    |         |         |            |
| 1410    |         |         |            | 3115    |         |         |            | 2465    |         |         |            | 2459    |         |         |            |
| 1425    |         |         |            | 3140    |         |         |            | 2470    |         |         |            | 2460    |         |         |            |
| 1435    |         |         |            | 3160    |         |         |            | 2480    |         |         |            | 2465    |         |         |            |
| 1440    |         |         |            | 3200    |         |         |            | 2490    |         |         |            | 2470    |         |         |            |
| 1445    |         |         |            | 3355    |         |         |            | 2520    |         |         |            | 2480    |         |         |            |
| 1450    |         |         |            | 3370    |         |         |            | 2530    |         |         |            | 2485    |         |         |            |
| 1460    |         |         |            | 3430    |         |         |            | 2540    |         |         |            | 2500    |         |         |            |
| 1470    |         |         |            | 3600    |         |         |            | 2542    |         |         |            | 2515    |         |         |            |
| 1480    |         |         |            | 3830    |         |         |            | 2560    |         |         |            | 2520    |         |         |            |
| 1490    |         |         |            | 3857    |         |         |            | 2600    |         |         |            | 2535    |         |         |            |
| 1525    |         |         |            | 4180    |         |         |            | 2610    |         |         |            | 2540    |         |         |            |
| 1550    |         |         |            | 4400    |         |         |            | 2625    |         |         |            | 2550    |         |         |            |
| 1575    |         |         |            | 4440    |         |         |            | 2630    |         |         |            | 2560    |         |         |            |
| 1580    |         |         |            | 4600    |         |         |            | 2650    |         |         |            | 2565    |         |         |            |
| 1600    |         |         |            | 5140    |         |         |            | 2665    |         |         |            | 2570    |         |         |            |
| 1620    |         |         |            | 1350    | 20      | 0,90    | 2          | 2710    |         |         |            | 2580    |         |         |            |
| 1630    |         |         |            | 1710    |         |         |            | 2750    |         |         |            | 2590    |         |         |            |
| 1635    |         |         |            | 1735    |         |         |            | 2770    |         |         |            | 2600    |         |         |            |
| 1638    |         |         |            | 1740    |         |         |            | 2950    |         |         |            | 2615    |         |         |            |
| 1640    |         |         |            | 1750    |         |         |            | 2970    |         |         |            | 2625    |         |         |            |
| 1645    |         |         |            | 2000    |         |         |            | 2980    |         |         |            | 2655    |         |         |            |
| 1650    |         |         |            | 2005    |         |         |            | 3000    |         |         |            | 2660    |         |         |            |
| 1660    |         |         |            | 2010    |         |         |            | 3084    |         |         |            | 2680    |         |         |            |
| 1710    |         |         |            | 2020    |         |         |            | 3240    |         |         |            | 2700    |         |         |            |
| 1715    |         |         |            | 2035    |         |         |            | 3280    |         |         |            | 2710    |         |         |            |
| 1730    |         |         |            | 2037    |         |         |            | 3454    |         |         |            | 2715    |         |         |            |
| 1735    |         |         |            | 2040    |         |         |            | 3950    |         |         |            | 2720    |         |         |            |
| 1740    |         |         |            | 2058    |         |         |            | 3960    |         |         |            | 2725    |         |         |            |
| 1745    |         |         |            | 2060    |         |         |            | 4185    |         |         |            | 2730    |         |         |            |
| 1750    |         |         |            | 2065    |         |         |            | 4270    |         |         |            | 2735    |         |         |            |
| 1770    |         |         |            | 2070    |         |         |            | 4400    |         |         |            | 2740    |         |         |            |
| 1790    |         |         |            | 2075    |         |         |            | 4485    |         |         |            | 2750    |         |         |            |
| 1838    |         |         |            | 2080    |         |         |            | 4900    |         |         |            | 2755    |         |         |            |
| 1840    |         |         |            | 2085    |         |         |            | 5130    |         |         |            | 2759    |         |         |            |
| 1845    |         |         |            | 2090    |         |         |            | 5800    |         |         |            | 2760    |         |         |            |
| 1875    |         |         |            | 2095    |         |         |            | 7220    |         |         |            | 2765    |         |         |            |
|         |         |         |            | 2100    |         |         |            | 7320    |         |         |            |         |         |         |            |

# Ref. 4223

## HOJA DE SIERRA DE CINTA HSSE 8% Co IZARFLEX

IZARFLEX HSSE 8% Co Band Saw Blade

Lame de scie à ruban HSSE 8% Co IZARFLEX

| <b>New!</b> | <b>L mm</b> | <b>A mm</b> | <b>E mm</b> |  | <b>€</b> | <b>1 ud.</b> | <b>New!</b> | <b>L mm</b> | <b>A mm</b> | <b>E mm</b> |  | <b>€</b> | <b>1 ud.</b> | <b>New!</b> | <b>L mm</b> | <b>A mm</b> | <b>E mm</b> |  | <b>€</b> | <b>1 ud.</b> |           |             |          |  |  |  |
|-------------|-------------|-------------|-------------|--|----------|--------------|-------------|-------------|-------------|-------------|--|----------|--------------|-------------|-------------|-------------|-------------|--|----------|--------------|-----------|-------------|----------|--|--|--|
| 2770        | <b>27</b>   | 0,90        | 2           |  |          |              | 3440        | <b>27</b>   | 0,90        | 2           |  |          |              | 2600        | <b>34</b>   | 1,10        | 1           |  |          | 4970         | <b>34</b> | 1,10        | 1        |  |  |  |
| 2795        |             |             |             |  |          |              | 3460        |             |             |             |  |          |              | 2620        |             |             |             |  |          | 4990         |           |             |          |  |  |  |
| 2800        |             |             |             |  |          |              | 3490        |             |             |             |  |          |              | 2630        |             |             |             |  |          | 5000         |           |             |          |  |  |  |
| 2810        |             |             |             |  |          |              | 3495        |             |             |             |  |          |              | 2970        |             |             |             |  |          | 5070         |           |             |          |  |  |  |
| 2820        |             |             |             |  |          |              | 3500        |             |             |             |  |          |              | 3505        |             |             |             |  |          | 5080         |           |             |          |  |  |  |
| 2825        |             |             |             |  |          |              | 3505        |             |             |             |  |          |              | 3530        |             |             |             |  |          | 5090         |           |             |          |  |  |  |
| 2830        |             |             |             |  |          |              | 3550        |             |             |             |  |          |              | 3634        |             |             |             |  |          | 5200         |           |             |          |  |  |  |
| 2835        |             |             |             |  |          |              | 3560        |             |             |             |  |          |              | 3655        |             |             |             |  |          | 5270         |           |             |          |  |  |  |
| 2840        |             |             |             |  |          |              | 3600        |             |             |             |  |          |              | 3660        |             |             |             |  |          | 5320         |           |             |          |  |  |  |
| 2845        |             |             |             |  |          |              | 3630        |             |             |             |  |          |              | 3730        |             |             |             |  |          | 5400         |           |             |          |  |  |  |
| 2847        |             |             |             |  |          |              | 3640        |             |             |             |  |          |              | 3770        |             |             |             |  |          | 5500         |           |             |          |  |  |  |
| 2850        |             |             |             |  |          |              | 3650        |             |             |             |  |          |              | 3820        |             |             |             |  |          | 5600         |           |             |          |  |  |  |
| 2855        |             |             |             |  |          |              | 3660        |             |             |             |  |          |              | 3830        |             |             |             |  |          | 5720         |           |             |          |  |  |  |
| 2860        |             |             |             |  |          |              | 3667        |             |             |             |  |          |              | 3840        |             |             |             |  |          | 5800         |           |             |          |  |  |  |
| 2865        |             |             |             |  |          |              | 3700        |             |             |             |  |          |              | 3851        |             |             |             |  |          | 6340         |           |             |          |  |  |  |
| 2870        |             |             |             |  |          |              | 3800        |             |             |             |  |          |              | 3870        |             |             |             |  |          | 6350         |           |             |          |  |  |  |
| 2880        |             |             |             |  |          |              | 3810        |             |             |             |  |          |              | 3920        |             |             |             |  |          | 6360         |           |             |          |  |  |  |
| 2884        |             |             |             |  |          |              | 3820        |             |             |             |  |          |              | 4020        |             |             |             |  |          | 7000         |           |             |          |  |  |  |
| 2890        |             |             |             |  |          |              | 3830        |             |             |             |  |          |              | 4030        |             |             |             |  |          | 7002         |           |             |          |  |  |  |
| 2900        |             |             |             |  |          |              | 3850        |             |             |             |  |          |              | 4100        |             |             |             |  |          | 7010         |           |             |          |  |  |  |
| 2910        |             |             |             |  |          |              | 3851        |             |             |             |  |          |              | 4115        |             |             |             |  |          | 8730         |           |             |          |  |  |  |
| 2915        |             |             |             |  |          |              | 3853        |             |             |             |  |          |              | 4120        |             |             |             |  |          | 4115         | <b>41</b> | <b>1,30</b> | <b>1</b> |  |  |  |
| 2920        |             |             |             |  |          |              | 3900        |             |             |             |  |          |              | 4130        |             |             |             |  |          | 4500         |           |             |          |  |  |  |
| 2925        |             |             |             |  |          |              | 3930        |             |             |             |  |          |              | 4160        |             |             |             |  |          | 4570         |           |             |          |  |  |  |
| 2927        |             |             |             |  |          |              | 3950        |             |             |             |  |          |              | 4180        |             |             |             |  |          | 4650         |           |             |          |  |  |  |
| 2940        |             |             |             |  |          |              | 4000        |             |             |             |  |          |              | 4250        |             |             |             |  |          | 4670         |           |             |          |  |  |  |
| 2945        |             |             |             |  |          |              | 4038        |             |             |             |  |          |              | 4260        |             |             |             |  |          | 4800         |           |             |          |  |  |  |
| 2950        |             |             |             |  |          |              | 4050        |             |             |             |  |          |              | 4300        |             |             |             |  |          | 4930         |           |             |          |  |  |  |
| 2960        |             |             |             |  |          |              | 4079        |             |             |             |  |          |              | 4335        |             |             |             |  |          | 5000         |           |             |          |  |  |  |
| 2964        |             |             |             |  |          |              | 4090        |             |             |             |  |          |              | 4340        |             |             |             |  |          | 5090         |           |             |          |  |  |  |
| 2965        |             |             |             |  |          |              | 4100        |             |             |             |  |          |              | 4350        |             |             |             |  |          | 5200         |           |             |          |  |  |  |
| 2985        |             |             |             |  |          |              | 4115        |             |             |             |  |          |              | 4370        |             |             |             |  |          | 5334         |           |             |          |  |  |  |
| 3000        |             |             |             |  |          |              | 4150        |             |             |             |  |          |              | 4380        |             |             |             |  |          | 5400         |           |             |          |  |  |  |
| 3010        |             |             |             |  |          |              | 4240        |             |             |             |  |          |              | 4400        |             |             |             |  |          | 5450         |           |             |          |  |  |  |
| 3015        |             |             |             |  |          |              | 4250        |             |             |             |  |          |              | 4420        |             |             |             |  |          | 5500         |           |             |          |  |  |  |
| 3020        |             |             |             |  |          |              | 4270        |             |             |             |  |          |              | 4440        |             |             |             |  |          | 5600         |           |             |          |  |  |  |
| 3025        |             |             |             |  |          |              | 4310        |             |             |             |  |          |              | 4470        |             |             |             |  |          | 5700         |           |             |          |  |  |  |
| 3035        |             |             |             |  |          |              | 4470        |             |             |             |  |          |              | 4520        |             |             |             |  |          | 5800         |           |             |          |  |  |  |
| 3050        |             |             |             |  |          |              | 4500        |             |             |             |  |          |              | 4570        |             |             |             |  |          | 5920         |           |             |          |  |  |  |
| 3084        |             |             |             |  |          |              | 4600        |             |             |             |  |          |              | 4600        |             |             |             |  |          | 6192         |           |             |          |  |  |  |
| 3090        |             |             |             |  |          |              | 4870        |             |             |             |  |          |              | 4610        |             |             |             |  |          | 6500         |           |             |          |  |  |  |
| 3100        |             |             |             |  |          |              | 4875        |             |             |             |  |          |              | 4640        |             |             |             |  |          | 6600         |           |             |          |  |  |  |
| 3110        |             |             |             |  |          |              | 4900        |             |             |             |  |          |              | 4670        |             |             |             |  |          | 6675         |           |             |          |  |  |  |
| 3120        |             |             |             |  |          |              | 4960        |             |             |             |  |          |              | 4720        |             |             |             |  |          | 6775         |           |             |          |  |  |  |
| 3140        |             |             |             |  |          |              | 5035        |             |             |             |  |          |              | 4750        |             |             |             |  |          | 6800         |           |             |          |  |  |  |
| 3150        |             |             |             |  |          |              | 5090        |             |             |             |  |          |              | 4770        |             |             |             |  |          | 6990         |           |             |          |  |  |  |
| 3160        |             |             |             |  |          |              | 5430        |             |             |             |  |          |              | 4780        |             |             |             |  |          | 7400         |           |             |          |  |  |  |
| 3175        |             |             |             |  |          |              | 5445        |             |             |             |  |          |              | 4800        |             |             |             |  |          | 7470         |           |             |          |  |  |  |
| 3180        |             |             |             |  |          |              | 5600        |             |             |             |  |          |              | 4900        |             |             |             |  |          | 7880         |           |             |          |  |  |  |
| 3200        |             |             |             |  |          |              | 5725        |             |             |             |  |          |              | 4930        |             |             |             |  |          |              |           |             |          |  |  |  |
| 3215        |             |             |             |  |          |              | 6200        |             |             |             |  |          |              |             |             |             |             |  |          |              |           |             |          |  |  |  |
| 3220        |             |             |             |  |          |              | 6500        |             |             |             |  |          |              |             |             |             |             |  |          |              |           |             |          |  |  |  |
| 3230        |             |             |             |  |          |              | 7400        |             |             |             |  |          |              |             |             |             |             |  |          |              |           |             |          |  |  |  |
| 3250        |             |             |             |  |          |              |             |             |             |             |  |          |              |             |             |             |             |  |          |              |           |             |          |  |  |  |
| 3270        |             |             |             |  |          |              |             |             |             |             |  |          |              |             |             |             |             |  |          |              |           |             |          |  |  |  |
| 3280        |             |             |             |  |          |              |             |             |             |             |  |          |              |             |             |             |             |  |          |              |           |             |          |  |  |  |
| 3285        |             |             |             |  |          |              |             |             |             |             |  |          |              |             |             |             |             |  |          |              |           |             |          |  |  |  |
| 3300        |             |             |             |  |          |              |             |             |             |             |  |          |              |             |             |             |             |  |          |              |           |             |          |  |  |  |
| 3310        |             |             |             |  |          |              |             |             |             |             |  |          |              |             |             |             |             |  |          |              |           |             |          |  |  |  |
| 3320        |             |             |             |  |          |              |             |             |             |             |  |          |              |             |             |             |             |  |          |              |           |             |          |  |  |  |
| 3345        |             |             |             |  |          |              |             |             |             |             |  |          |              |             |             |             |             |  |          |              |           |             |          |  |  |  |
| 3350        |             |             |             |  |          |              |             |             |             |             |  |          |              |             |             |             |             |  |          |              |           |             |          |  |  |  |
| 3352        |             |             |             |  |          |              |             |             |             |             |  |          |              |             |             |             |             |  |          |              |           |             |          |  |  |  |
| 3365        |             |             |             |  |          |              |             |             |             |             |  |          |              |             |             |             |             |  |          |              |           |             |          |  |  |  |
| 3370        |             |             |             |  |          |              |             |             |             |             |  |          |              |             |             |             |             |  |          |              |           |             |          |  |  |  |
| 3378        |             |             |             |  |          |              |             |             |             |             |  |          |              |             |             |             |             |  |          |              |           |             |          |  |  |  |
| 3380        |             |             |             |  |          |              |             |             |             |             |  |          |              |             |             |             |             |  |          |              |           |             |          |  |  |  |
| 3400        |             |             |             |  |          |              |             |             |             |             |  |          |              |             |             |             |             |  |          |              |           |             |          |  |  |  |
| 3420        |             |             |             |  |          |              |             |             |             |             |  |          |              |             |             |             |             |  |          |              |           |             |          |  |  |  |
| 3430        |             |             |             |  |          |              |             |             |             |             |  |          |              |             |             |             |             |  |          |              |           |             |          |  |  |  |
| 3435        |             |             |             |  |          |              |             |             |             |             |  |          |              |             |             |             |             |  |          |              |           |             |          |  |  |  |

Tipo Dentado (TZ) / Teeth Type (TZ) / Type Denture (TZ)

| <b>A x E</b>     | <b>TPI</b> |            |          |            |          |            |            |             |             |              |
|------------------|------------|------------|----------|------------|----------|------------|------------|-------------|-------------|--------------|
|                  | <b>2</b>   | <b>2-3</b> | <b>3</b> | <b>3-4</b> | <b>4</b> | <b>4-6</b> | <b>5-8</b> | <b>6-10</b> | <b>8-12</b> | <b>10-14</b> |
| <b>13 x 0,65</b> |            |            |          |            |          |            |            |             |             |              |
| <b>20 x 0,90</b> |            |            |          |            |          |            |            |             |             |              |
| <b>27 x 0,90</b> | K          |            | K        | K          | K        | K          | S          | S           | S           | S            |
| <b>34 x 1,10</b> |            | K          | K        | K          |          | K          | S          | S           | S           | S            |
| <b>41 x 1,30</b> | K          |            |          | K          |          | K          |            |             |             |              |

Rollos sin Soldadura  
Rolls without Welding  
Rouleaux non soudées

| <b>L mm</b> | <b>A mm</b> | <b>E mm</b> | <b>8% Co €</b> |
|-------------|-------------|-------------|----------------|
| 30500       | 13          | 0,65        |                |
| 100000      | 20          | 0,90        |                |
| 100000      | 27          | 0,90        |                |
| 100000      | 34          | 1,10        |                |
| 75000       | 41          | 1,30        |                |

Unidades pedido mínimo  
Minimum order units  
Unités commande minimale



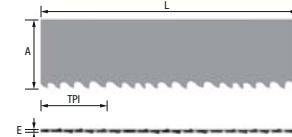
Ejemplo Pedido / Order Example / Exemple Commande Ref. 4223 + L 2450 + A 27 + E 0,90 + TPI 6-10 + TZ S

# Ref. 4228

## HOJA DE SIERRA DE CINTA HSSE 8% Co + 4% Cr IZARPLUS

IZARPLUS HSSE 8% Co + 4% Cr Band Saw Blade

Lame de scie à ruban HSSE 8% Co + 4% Cr IZARPLUS



Especial Perfiles. Dentado variable 0° adecuado para perfiles y tareas de corte en serie, susceptibles de vibraciones.

Special Profiles. Variable tooth pitch 0° for profiles and bundle sawing tasks, susceptible of vibrations.

Spécial profils. Denture variable 0° convenable pour profils et travaux de coupe en paquet, susceptibles des vibrations.

Aceros  
<850 N/mm<sup>2</sup>  
Steel / Aciers

Aceros  
<1000 N/mm<sup>2</sup>  
Steel / Aciers

Fundición  
Cast Iron  
Fonte

INOX  
Stainless Steel  
Acier INOX

Cobre  
Copper  
Cuivre

Aluminio  
Aluminium

Plásticos  
Plastics  
Plastiques

| New!    |         | New!    |            | New!    |         | New!    |            |
|---------|---------|---------|------------|---------|---------|---------|------------|
| L<br>mm | A<br>mm | E<br>mm | €<br>1 ud. | L<br>mm | A<br>mm | E<br>mm | €<br>1 ud. |
| 1100    | 13      | 0,65    | 3          | 1125    | 13      | 0,90    | 3          |
| 1130    |         |         |            | 1140    |         |         |            |
| 1138    |         |         |            | 1325    |         |         |            |
| 1140    |         |         |            | 1330    |         |         |            |
| 1300    |         |         |            | 1335    |         |         |            |
| 1310    |         |         |            | 1375    |         |         |            |
| 1325    |         |         |            | 1470    |         |         |            |
| 1330    |         |         |            | 1485    |         |         |            |
| 1335    |         |         |            | 1638    |         |         |            |
| 1340    |         |         |            | 1640    |         |         |            |
| 1350    |         |         |            | 1650    |         |         |            |
| 1368    |         |         |            | 1735    |         |         |            |
| 1400    |         |         |            | 1750    |         |         |            |
| 1425    |         |         |            | 1840    |         |         |            |
| 1430    |         |         |            | 2240    |         |         |            |
| 1435    |         |         |            |         |         |         |            |
| 1440    |         |         |            |         |         |         |            |
| 1450    |         |         |            |         |         |         |            |
| 1460    |         |         |            |         |         |         |            |
| 1470    |         |         |            |         |         |         |            |
| 1500    |         |         |            |         |         |         |            |
| 1550    |         |         |            |         |         |         |            |
| 1575    |         |         |            |         |         |         |            |
| 1580    |         |         |            |         |         |         |            |
| 1605    |         |         |            |         |         |         |            |
| 1620    |         |         |            |         |         |         |            |
| 1635    |         |         |            |         |         |         |            |
| 1638    |         |         |            |         |         |         |            |
| 1640    |         |         |            |         |         |         |            |
| 1645    |         |         |            |         |         |         |            |
| 1650    |         |         |            |         |         |         |            |
| 1680    |         |         |            |         |         |         |            |
| 1732    |         |         |            |         |         |         |            |
| 1735    |         |         |            |         |         |         |            |
| 1740    |         |         |            |         |         |         |            |
| 1750    |         |         |            |         |         |         |            |
| 1974    |         |         |            |         |         |         |            |
| 2180    |         |         |            |         |         |         |            |
| 2240    |         |         |            |         |         |         |            |
| 2265    |         |         |            |         |         |         |            |
| 2900    |         |         |            |         |         |         |            |
| 3700    |         |         |            |         |         |         |            |
| 3800    |         |         |            |         |         |         |            |
| 3825    |         |         |            |         |         |         |            |
| 4180    |         |         |            |         |         |         |            |

# Ref. 4228

## HOJA DE SIERRA DE CINTA HSSE 8% Co + 4% Cr IZARPLUS

IZARPLUS HSSE 8% Co + 4% Cr Band Saw Blade

Lame de scie à ruban HSSE 8% Co + 4% Cr IZARPLUS

New!

| L<br>mm | A<br>mm | E<br>mm |   | €<br>1 ud. |
|---------|---------|---------|---|------------|
| 2830    | 27      | 0,90    | 2 |            |
| 2835    |         |         |   |            |
| 2840    |         |         |   |            |
| 2845    |         |         |   |            |
| 2850    |         |         |   |            |
| 2860    |         |         |   |            |
| 2865    |         |         |   |            |
| 2870    |         |         |   |            |
| 2885    |         |         |   |            |
| 2900    |         |         |   |            |
| 2910    |         |         |   |            |
| 2920    |         |         |   |            |
| 2925    |         |         |   |            |
| 2927    |         |         |   |            |
| 2950    |         |         |   |            |
| 2965    |         |         |   |            |
| 3000    |         |         |   |            |
| 3010    |         |         |   |            |
| 3025    |         |         |   |            |
| 3035    |         |         |   |            |
| 3080    |         |         |   |            |
| 3090    |         |         |   |            |
| 3100    |         |         |   |            |
| 3110    |         |         |   |            |
| 3120    |         |         |   |            |
| 3135    |         |         |   |            |
| 3140    |         |         |   |            |
| 3150    |         |         |   |            |
| 3160    |         |         |   |            |
| 3180    |         |         |   |            |
| 3200    |         |         |   |            |
| 3270    |         |         |   |            |
| 3300    |         |         |   |            |
| 3320    |         |         |   |            |
| 3335    |         |         |   |            |
| 3340    |         |         |   |            |
| 3345    |         |         |   |            |
| 3350    |         |         |   |            |

New!

| L<br>mm | A<br>mm | E<br>mm |   | €<br>1 ud. |
|---------|---------|---------|---|------------|
| 3352    | 27      | 0,90    | 2 |            |
| 3370    |         |         |   |            |
| 3400    |         |         |   |            |
| 3420    |         |         |   |            |
| 3440    |         |         |   |            |
| 3454    |         |         |   |            |
| 3485    |         |         |   |            |
| 3505    |         |         |   |            |
| 3560    |         |         |   |            |
| 3630    |         |         |   |            |
| 3660    |         |         |   |            |
| 3670    |         |         |   |            |
| 3800    |         |         |   |            |
| 3820    |         |         |   |            |
| 3860    |         |         |   |            |
| 3920    |         |         |   |            |
| 3950    |         |         |   |            |
| 4020    |         |         |   |            |
| 4030    |         |         |   |            |
| 4100    |         |         |   |            |
| 4120    |         |         |   |            |
| 4250    |         |         |   |            |
| 4335    |         |         |   |            |
| 4380    |         |         |   |            |
| 4400    |         |         |   |            |
| 4420    |         |         |   |            |
| 4450    |         |         |   |            |
| 4470    |         |         |   |            |
| 4500    |         |         |   |            |
| 4520    |         |         |   |            |
| 4570    |         |         |   |            |
| 4610    |         |         |   |            |
| 4620    |         |         |   |            |
| 4640    |         |         |   |            |
| 4780    |         |         |   |            |
| 4800    |         |         |   |            |
| 4930    |         |         |   |            |
| 4970    |         |         |   |            |
| 4990    |         |         |   |            |
| 5040    |         |         |   |            |
| 5080    |         |         |   |            |
| 5090    |         |         |   |            |
| 5200    |         |         |   |            |
| 5270    |         |         |   |            |
| 5300    |         |         |   |            |
| 6350    |         |         |   |            |
| 6500    |         |         |   |            |
| 6550    |         |         |   |            |
| 7000    |         |         |   |            |
| 7550    |         |         |   |            |
| 8730    |         |         |   |            |

New!

| L<br>mm | A<br>mm | E<br>mm |   | €<br>1 ud. |
|---------|---------|---------|---|------------|
| 3320    | 34      | 1,10    | 1 |            |
| 3505    |         |         |   |            |
| 3660    |         |         |   |            |
| 3730    |         |         |   |            |
| 3770    |         |         |   |            |
| 3800    |         |         |   |            |
| 3820    |         |         |   |            |
| 3860    |         |         |   |            |
| 3920    |         |         |   |            |
| 3950    |         |         |   |            |
| 4020    |         |         |   |            |
| 4030    |         |         |   |            |
| 4100    |         |         |   |            |
| 4120    |         |         |   |            |
| 4250    |         |         |   |            |
| 4335    |         |         |   |            |
| 4380    |         |         |   |            |
| 4400    |         |         |   |            |
| 4420    |         |         |   |            |
| 4450    |         |         |   |            |
| 4470    |         |         |   |            |
| 4500    |         |         |   |            |
| 4520    |         |         |   |            |
| 4570    |         |         |   |            |
| 4610    |         |         |   |            |
| 4620    |         |         |   |            |
| 4640    |         |         |   |            |
| 4780    |         |         |   |            |
| 4800    |         |         |   |            |
| 4930    |         |         |   |            |
| 4970    |         |         |   |            |
| 4990    |         |         |   |            |
| 5040    |         |         |   |            |
| 5080    |         |         |   |            |
| 5090    |         |         |   |            |
| 5200    |         |         |   |            |
| 5270    |         |         |   |            |
| 5300    |         |         |   |            |
| 6350    |         |         |   |            |
| 6500    |         |         |   |            |
| 6550    |         |         |   |            |
| 7000    |         |         |   |            |
| 7550    |         |         |   |            |
| 8730    |         |         |   |            |

New!

| L<br>mm | A<br>mm | E<br>mm |   | €<br>1 ud. |
|---------|---------|---------|---|------------|
| 4115    | 41      | 1,30    | 1 |            |
| 4500    |         |         |   |            |
| 4640    |         |         |   |            |
| 4930    |         |         |   |            |
| 5000    |         |         |   |            |
| 5040    |         |         |   |            |
| 5090    |         |         |   |            |
| 5265    |         |         |   |            |
| 5300    |         |         |   |            |
| 5340    |         |         |   |            |
| 5350    |         |         |   |            |
| 5450    |         |         |   |            |
| 5700    |         |         |   |            |
| 5920    |         |         |   |            |
| 6175    |         |         |   |            |
| 6300    |         |         |   |            |
| 6400    |         |         |   |            |
| 6585    |         |         |   |            |
| 6775    |         |         |   |            |
| 6800    |         |         |   |            |
| 6900    |         |         |   |            |
| 7470    |         |         |   |            |
| 7880    |         |         |   |            |
| 8200    |         |         |   |            |

### Tipo Dentado (TZ) / Teeth Type (TZ) / Type Denture (TZ)

| A x E     | TPI |     |     |      |      |       |
|-----------|-----|-----|-----|------|------|-------|
|           | 3-4 | 4-6 | 5-8 | 6-10 | 8-12 | 10-14 |
| 13 x 0,65 |     |     | S   | S    | S    |       |
| 13 x 0,90 |     |     | S   | S    | S    |       |
| 20 x 0,90 | S   | S   | S   | S    | S    |       |
| 27 x 0,90 | S   | S   | S   | S    | S    | S     |
| 34 x 1,10 | S   | S   | S   | S    | S    |       |
| 41 x 1,30 | S   | S   | S   | S    |      |       |

### Rollos sin Soldadura / Rolls without Welding / Rouleaux non soudées

| L<br>mm | A<br>mm | E<br>mm | 8% Co<br>€ | L<br>mm | A<br>mm | E<br>mm | 8% Co<br>€ |
|---------|---------|---------|------------|---------|---------|---------|------------|
| 30500   | 13      | 0,65    |            | 100000  | 27      | 0,90    |            |
| 123000  |         |         |            | 134000  |         |         |            |
| 30500   | 13      | 0,90    |            | 100000  | 34      | 1,10    |            |
| 100000  | 20      | 0,90    |            | 75000   | 41      | 1,30    |            |



Unidades pedido mínimo

Minimum order units

Unités commande minimale

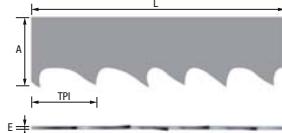
Ejemplo Pedido / Order Example / Exemple Commande

Ref. 4228 + L 2080 + A 27 + E 0,90 + TPI 8-12 + TZ S

# Ref. 4229

## HOJA DE SIERRA DE CINTA HSSE 8% Co + 4% Cr IZARPLUS

IZARPLUS HSSE 8% Co + 4% Cr Band Saw Blade  
Lame de scie à ruban HSSE 8% Co + 4% Cr IZARPLUS



**HSSE  
8% Co**

4% Cr



**Aceros  
<850 N/mm<sup>2</sup>  
Steel / Aciers**

**Aceros  
<1000 N/mm<sup>2</sup>  
Steel / Aciers**

**INOX  
Stainless Steel  
Acier INOX**

**Cobre  
Copper  
Cuivre**

**Aluminio  
Aluminium**

**Plásticos  
Plastics  
Plastiques**

Especial Macizos. Dentado variable 10°.  
Mayores rendimientos de corte, ideal para el  
corte de piezas macizas grandes.

Special Solid Pieces. Variable tooth pitch 10°.  
Higher cutting performance, suitable to cut  
big solid pieces.

Spécial pièces pleins. Denture variable 10°.  
Rendements de coupe supérieurs, convenable  
pour la coupe de grandes pièces pleins.

| New! |    |      |  |   |       |      | New! |      |  |   |       |      |    | New! |  |   |       |      |    |      | New! |   |       |  |  |  |  |
|------|----|------|--|---|-------|------|------|------|--|---|-------|------|----|------|--|---|-------|------|----|------|------|---|-------|--|--|--|--|
| L    | A  | E    |  | € | 1 ud. | L    | A    | E    |  | € | 1 ud. | L    | A  | E    |  | € | 1 ud. | L    | A  | E    |      | € | 1 ud. |  |  |  |  |
| 2080 | 27 | 0,90 |  | 2 |       | 3120 | 27   | 0,90 |  | 2 |       | 3350 | 34 | 1,10 |  | 1 |       | 4115 | 41 | 1,30 |      | 1 |       |  |  |  |  |
| 2150 |    |      |  |   |       | 3140 |      |      |  |   |       | 3505 |    |      |  |   |       | 4500 |    |      |      |   |       |  |  |  |  |
| 2450 |    |      |  |   |       | 3150 |      |      |  |   |       | 3770 |    |      |  |   |       | 4640 |    |      |      |   |       |  |  |  |  |
| 2455 |    |      |  |   |       | 3160 |      |      |  |   |       | 3820 |    |      |  |   |       | 4650 |    |      |      |   |       |  |  |  |  |
| 2459 |    |      |  |   |       | 3180 |      |      |  |   |       | 3850 |    |      |  |   |       | 4700 |    |      |      |   |       |  |  |  |  |
| 2460 |    |      |  |   |       | 3200 |      |      |  |   |       | 4020 |    |      |  |   |       | 4900 |    |      |      |   |       |  |  |  |  |
| 2480 |    |      |  |   |       | 3222 |      |      |  |   |       | 4100 |    |      |  |   |       | 4930 |    |      |      |   |       |  |  |  |  |
| 2550 |    |      |  |   |       | 3240 |      |      |  |   |       | 4115 |    |      |  |   |       | 5000 |    |      |      |   |       |  |  |  |  |
| 2565 |    |      |  |   |       | 3270 |      |      |  |   |       | 4120 |    |      |  |   |       | 5040 |    |      |      |   |       |  |  |  |  |
| 2570 |    |      |  |   |       | 3300 |      |      |  |   |       | 4130 |    |      |  |   |       | 5080 |    |      |      |   |       |  |  |  |  |
| 2590 |    |      |  |   |       | 3320 |      |      |  |   |       | 4160 |    |      |  |   |       | 5090 |    |      |      |   |       |  |  |  |  |
| 2600 |    |      |  |   |       | 3345 |      |      |  |   |       | 4210 |    |      |  |   |       | 5340 |    |      |      |   |       |  |  |  |  |
| 2680 |    |      |  |   |       | 3350 |      |      |  |   |       | 4220 |    |      |  |   |       | 5350 |    |      |      |   |       |  |  |  |  |
| 2700 |    |      |  |   |       | 3352 |      |      |  |   |       | 4250 |    |      |  |   |       | 5450 |    |      |      |   |       |  |  |  |  |
| 2710 |    |      |  |   |       | 3400 |      |      |  |   |       | 4335 |    |      |  |   |       | 5800 |    |      |      |   |       |  |  |  |  |
| 2720 |    |      |  |   |       | 3420 |      |      |  |   |       | 4420 |    |      |  |   |       | 5890 |    |      |      |   |       |  |  |  |  |
| 2740 |    |      |  |   |       | 3445 |      |      |  |   |       | 4440 |    |      |  |   |       | 5920 |    |      |      |   |       |  |  |  |  |
| 2750 |    |      |  |   |       | 3495 |      |      |  |   |       | 4450 |    |      |  |   |       | 6300 |    |      |      |   |       |  |  |  |  |
| 2755 |    |      |  |   |       | 3500 |      |      |  |   |       | 4470 |    |      |  |   |       | 6500 |    |      |      |   |       |  |  |  |  |
| 2760 |    |      |  |   |       | 3505 |      |      |  |   |       | 4500 |    |      |  |   |       | 6585 |    |      |      |   |       |  |  |  |  |
| 2765 |    |      |  |   |       | 3550 |      |      |  |   |       | 4520 |    |      |  |   |       | 6675 |    |      |      |   |       |  |  |  |  |
| 2800 |    |      |  |   |       | 3640 |      |      |  |   |       | 4530 |    |      |  |   |       | 6775 |    |      |      |   |       |  |  |  |  |
| 2825 |    |      |  |   |       | 3660 |      |      |  |   |       | 4570 |    |      |  |   |       | 6800 |    |      |      |   |       |  |  |  |  |
| 2835 |    |      |  |   |       | 3770 |      |      |  |   |       | 4640 |    |      |  |   |       | 6900 |    |      |      |   |       |  |  |  |  |
| 2845 |    |      |  |   |       | 3800 |      |      |  |   |       | 4720 |    |      |  |   |       | 7470 |    |      |      |   |       |  |  |  |  |
| 2855 |    |      |  |   |       | 3810 |      |      |  |   |       | 4770 |    |      |  |   |       | 8200 |    |      |      |   |       |  |  |  |  |
| 2910 |    |      |  |   |       | 3820 |      |      |  |   |       | 4780 |    |      |  |   |       | 8400 |    |      |      |   |       |  |  |  |  |
| 2925 |    |      |  |   |       | 3830 |      |      |  |   |       | 4860 |    |      |  |   |       | 5800 | 54 | 1,60 | 1    |   |       |  |  |  |  |
| 2950 |    |      |  |   |       | 3900 |      |      |  |   |       | 4865 |    |      |  |   |       | 6040 |    |      |      |   |       |  |  |  |  |
| 3000 |    |      |  |   |       | 3930 |      |      |  |   |       | 4970 |    |      |  |   |       | 6096 |    |      |      |   |       |  |  |  |  |
| 3010 |    |      |  |   |       | 4090 |      |      |  |   |       | 4990 |    |      |  |   |       | 6200 |    |      |      |   |       |  |  |  |  |
| 3025 |    |      |  |   |       | 4110 |      |      |  |   |       | 5000 |    |      |  |   |       | 6270 |    |      |      |   |       |  |  |  |  |
| 3035 |    |      |  |   |       | 4115 |      |      |  |   |       | 5090 |    |      |  |   |       | 6500 |    |      |      |   |       |  |  |  |  |
| 3100 |    |      |  |   |       | 4310 |      |      |  |   |       | 5156 |    |      |  |   |       | 7140 |    |      |      |   |       |  |  |  |  |
| 3105 |    |      |  |   |       | 4500 |      |      |  |   |       | 5200 |    |      |  |   |       | 7200 |    |      |      |   |       |  |  |  |  |
|      |    |      |  |   |       | 4800 |      |      |  |   |       | 5270 |    |      |  |   |       | 7310 |    |      |      |   |       |  |  |  |  |
|      |    |      |  |   |       |      |      |      |  |   |       | 5300 |    |      |  |   |       | 7450 |    |      |      |   |       |  |  |  |  |
|      |    |      |  |   |       |      |      |      |  |   |       |      |    |      |  |   |       | 7460 |    |      |      |   |       |  |  |  |  |
|      |    |      |  |   |       |      |      |      |  |   |       |      |    |      |  |   |       | 7545 |    |      |      |   |       |  |  |  |  |
|      |    |      |  |   |       |      |      |      |  |   |       |      |    |      |  |   |       | 7600 |    |      |      |   |       |  |  |  |  |
|      |    |      |  |   |       |      |      |      |  |   |       |      |    |      |  |   |       | 8900 |    |      |      |   |       |  |  |  |  |

### Rollos sin Soldadura

Rolls without Welding - Rouleaux non soudées

| L      | A  | E    | 8% Co |
|--------|----|------|-------|
| mm     | mm | mm   | €     |
| 100000 | 20 | 0,90 |       |
| 100000 | 27 | 0,90 |       |
| 134000 |    |      |       |
| 100000 | 34 | 1,10 |       |
| 75000  | 41 | 1,30 |       |

### Tipo Dentado (TZ) / Teeth Type (TZ) / Type Denture (TZ)

| A x E     | TPI   |     |     |     |     |
|-----------|-------|-----|-----|-----|-----|
|           | 1,4-2 | 2-3 | 3-4 | 4-6 | 5-8 |
| 27 x 0,90 | K     | K   | K   | K   |     |
| 34 x 1,10 | K     | K   | K   | K   | K   |
| 41 x 1,30 | K     | K   | K   | K   | K   |
| 54 x 1,30 | K     | K   | K   | K   |     |

Unidades pedido mínimo  
Minimum order units  
Unités commande minimale

Ejemplo Pedido / Order Example / Exemple Commande

Ref. 4229 + L 2080 + A 27 + E 0,90 + TPI 5-8 + TZ K

Ref. **1994**

## ARCO SIERRA

Hacksaw Frame  
Monture scie



**¡Hoja de Sierra de Regalo!**

**Free Hacksaw Blade!**

**Lame scie cadeau!**



**Arco ergonómico de aleación de aluminio. Corte recto, vertical y horizontal. Hoja sierra regalo art. 67592: TPI 24**

Ergonomic Aluminium alloyed hack saw frame. Straight cut, both vertical and horizontal. Free hacksaw blade art. 67592: TPI 24

Monture ergonomique de alliage aluminium. Coupe droite et horizontale. Lame scie cadeau art. 67592 : TPI 24

TPI  
24



Nº Art.

€

62289

Ref. **1999**

## HOJA SIERRA

Hacksaw Blade  
Lame scie



Bimetal

TPI  
18-24  
32

INOX

|                                                    |                                                     |
|----------------------------------------------------|-----------------------------------------------------|
| Aceros<br><850 N/mm <sup>2</sup><br>Steel / Aciers | Aceros<br><1000 N/mm <sup>2</sup><br>Steel / Aciers |
| INOX<br>Stainless Steel<br>Acier INOX              |                                                     |

| TPI | L<br>mm | █   | Nº<br>Art. | €<br>1 ud. |
|-----|---------|-----|------------|------------|
| 18  | 300     | 20  | 48809      |            |
| 18  | 300     | 100 | 13856      |            |
| 24  | 300     | 20  | 25355      |            |
| 24  | 300     | 100 | 25387      |            |
| 32  | 300     | 100 | 28767      |            |



Ref. **1997**

## HOJA SIERRA

Hacksaw Blade  
Lame scie



HSS

TPI  
18-24  
32

No  
Flexible

|                                                    |                                                     |
|----------------------------------------------------|-----------------------------------------------------|
| Aceros<br><850 N/mm <sup>2</sup><br>Steel / Aciers | Aceros<br><1000 N/mm <sup>2</sup><br>Steel / Aciers |
|----------------------------------------------------|-----------------------------------------------------|

| TPI | L<br>mm | █   | Nº<br>Art. | €<br>1 ud. |
|-----|---------|-----|------------|------------|
| 18  | 300     | 20  | 48806      |            |
| 18  | 300     | 100 | 34553      |            |
| 24  | 300     | 20  | 34552      |            |
| 24  | 300     | 100 | 34554      |            |
| 32  | 300     | 100 | 34555      |            |



Ref. **1996**

## HOJA SIERRA

Hacksaw Blade  
Lame scie



Mod.  
1

Mod.  
2



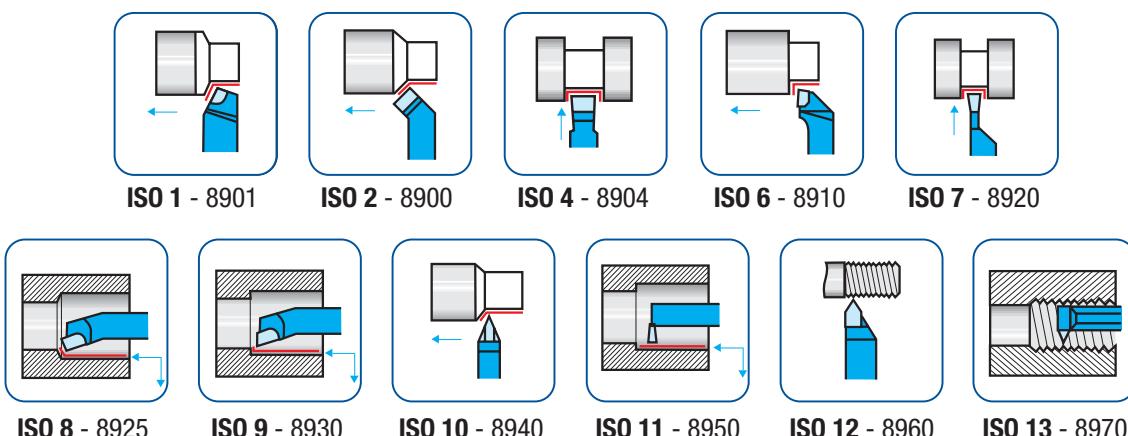
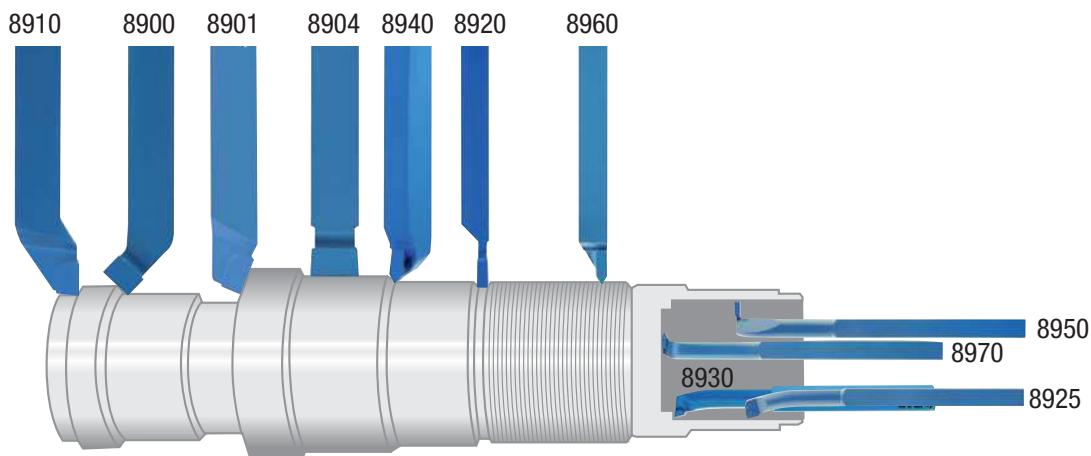
CrV

TPI  
24

| Mod. | Uso / Use / Usage      | TPI | L<br>mm | █  | Nº<br>Art. | €<br>1 ud. |
|------|------------------------|-----|---------|----|------------|------------|
| 1    | Metal                  | 24  | 300     | 50 | 17139      |            |
| 2    | Metal-Madera/Wood/Bois | 24  | 300     | 50 | 67592      |            |

# HERRAMIENTAS TORNEADO

Brazed Turning Tools  
Outils de tour



#### Calidad P20

Especialmente destinada a mecanizados de gran precisión y semi-acabado en aceros al carbono y aleados, a grandes velocidades de corte y avances moderados.

#### P20 Quality

Specially destined for high precision and semi-finishing machining of carbon & alloy steels, at high cutting speeds and moderate feeds.

#### Qualité P20

Notamment pour usinages haute précision et semi-finition en aciers au carbone et alliés, à hautes vitesses de coupe et avances modérées.

#### Calidad M20

Especial para acabado y desbaste suave de aceros, aceros al manganeso, fundición y metales resistentes al calor o no ferrosos, a velocidades de corte medias o bajas.

#### M20 Quality

Special for finishing and soft roughing of steels, manganese-steels, cast iron and heat-resistant or non-ferrous materials, at medium or low cutting speed.

#### Qualité M20

Spécial finition et ébauche tendre d'aciers, aciers au manganèse, fonte et aciers résistants au chaud et non ferreux à faibles ou moyennes vitesses de coupe.

#### Calidad K10

Especial para mecanizados de gran precisión y semi-acabado en fundición, aceros aleados, materiales de viruta corta y no ferrosos.

#### K10 Quality

Special for high precision and semi-finishing machining of cast iron, alloyed steels, short chipping and non-ferrous materials.

#### Qualité K10

Spéciale pour usinage d'haute précision et semi-finition fonte, alliages aciers, aciers copeaux courts et non ferreux.

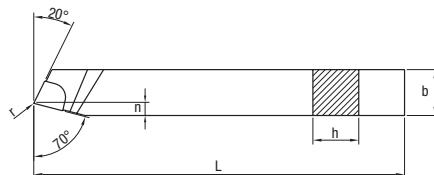


# Ref. 8901

## HERRAMIENTA TORNEADO PLACA SOLDADA CILINDRADO 70°

70° Straight Brazed Turning Tool

Outil de tour plaque soudé cylindrage 70°



DIN  
4971

ISO  
1



|                                                  |                                                  |
|--------------------------------------------------|--------------------------------------------------|
| Aceros <850 N/mm <sup>2</sup><br>Steel / Aciers  | Aceros <1000 N/mm <sup>2</sup><br>Steel / Aciers |
| Aceros <1300 N/mm <sup>2</sup><br>Steel / Aciers | INOX<br>Stainless Steel<br>Acier INOX            |
| Fundición<br>Cast Iron<br>Fonte                  |                                                  |

|                                 |
|---------------------------------|
| Fundición<br>Cast Iron<br>Fonte |
| Cobre<br>Copper<br>Cuivre       |
| Aluminio<br>Aluminium           |

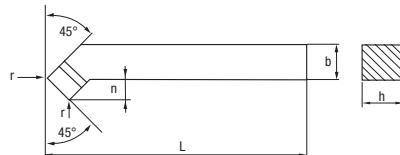
| h<br>mm           | b<br>mm | L<br>mm | R/L | n<br>mm | r<br>mm | Calidad<br>Quality / Qualité |         | Calidad<br>Quality / Qualité |      |
|-------------------|---------|---------|-----|---------|---------|------------------------------|---------|------------------------------|------|
|                   |         |         |     |         |         | P-20                         | Nº Art. | €                            | K-10 |
| 10 x 10 x 90 - L  | 4       | 0,2     |     | 55888   |         |                              | 55889   |                              |      |
| 10 x 10 x 90 - R  | 4       | 0,2     |     | 55893   |         |                              | 55891   |                              |      |
| 12 x 12 x 100 - L | 5       | 0,4     |     | 55894   |         |                              | 55897   |                              |      |
| 12 x 12 x 100 - R | 5       | 0,4     |     | 55896   |         |                              | 55899   |                              |      |
| 16 x 16 x 110 - L | 6       | 0,4     |     | 55903   |         |                              | 55905   |                              |      |
| 16 x 16 x 110 - R | 6       | 0,4     |     | 55904   |         |                              | 55906   |                              |      |
| 20 x 20 x 125 - L | 8       | 0,8     |     | 55911   |         |                              | 55913   |                              |      |
| 20 x 20 x 125 - R | 8       | 0,8     |     | 55912   |         |                              | 55914   |                              |      |
| 25 x 25 x 140 - L | 10      | 0,8     |     | 55917   |         |                              | 55919   |                              |      |
| 25 x 25 x 140 - R | 10      | 0,8     |     | 55918   |         |                              | 55920   |                              |      |

# Ref. 8900

## HERRAMIENTA TORNEADO PLACA SOLDADA ESCUADRADO 45°

45° Bent Brazed Turning Tool

Outil de tour plaque soudé décolletage 45°



DIN  
4972

ISO  
2



|                                                  |                                                  |
|--------------------------------------------------|--------------------------------------------------|
| Aceros <850 N/mm <sup>2</sup><br>Steel / Aciers  | Aceros <1000 N/mm <sup>2</sup><br>Steel / Aciers |
| Aceros <1300 N/mm <sup>2</sup><br>Steel / Aciers | INOX<br>Stainless Steel<br>Acier INOX            |
| Fundición<br>Cast Iron<br>Fonte                  |                                                  |

|                                       |
|---------------------------------------|
| INOX<br>Stainless Steel<br>Acier INOX |
|---------------------------------------|

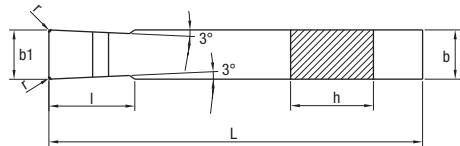
|                                 |
|---------------------------------|
| Fundición<br>Cast Iron<br>Fonte |
| Cobre<br>Copper<br>Cuivre       |
| Aluminio<br>Aluminium           |

| h<br>mm           | b<br>mm | L<br>mm | R/L | n<br>mm | r<br>mm | Calidad<br>Quality / Qualité |         | Calidad<br>Quality / Qualité |       |
|-------------------|---------|---------|-----|---------|---------|------------------------------|---------|------------------------------|-------|
|                   |         |         |     |         |         | P-20                         | Nº Art. | €                            | M-20  |
| 12 x 12 x 100 - L | 7       | 0,4     |     | 13586   |         |                              | 56073   |                              | 29179 |
| 12 x 12 x 100 - R | 7       | 0,4     |     | 13585   |         |                              | 56074   |                              | 29153 |
| 16 x 16 x 110 - L | 8       | 0,4     |     | 13589   |         |                              | 56076   |                              | 29181 |
| 16 x 16 x 110 - R | 8       | 0,4     |     | 13588   |         |                              | 56077   |                              | 18258 |
| 20 x 20 x 125 - L | 10      | 0,8     |     | 13592   |         |                              | 56078   |                              | 13051 |
| 20 x 20 x 125 - R | 10      | 0,8     |     | 13591   |         |                              | 56079   |                              | 28343 |
| 25 x 25 x 140 - L | 12      | 0,8     |     | 13597   |         |                              | 56080   |                              | 29182 |
| 25 x 25 x 140 - R | 12      | 0,8     |     | 13594   |         |                              | 56082   |                              | 26003 |

# Ref. 8904

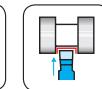
## HERRAMIENTA TORNEADO PLACA SOLDADA RANURADO EXTERIOR

Wide Face Square Nose Brazed Turning Tool  
Outil de tour plaque soudé rainurage extérieur



DIN  
4976

ISO  
4



|                                                  |                                                  |
|--------------------------------------------------|--------------------------------------------------|
| Aceros <850 N/mm <sup>2</sup><br>Steel / Aciers  | Aceros <1000 N/mm <sup>2</sup><br>Steel / Aciers |
| Aceros <1300 N/mm <sup>2</sup><br>Steel / Aciers | INOX Stainless Steel<br>Acier INOX               |
| Fundición Cast Iron<br>Fonte                     |                                                  |

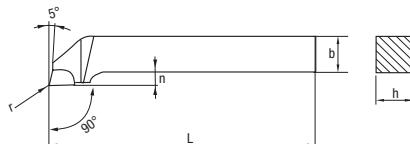
|                                 |
|---------------------------------|
| Fundición<br>Cast Iron<br>Fonte |
| Cobre Copper Cuivre             |
| Aluminio Aluminium              |

| h<br>mm | b<br>mm | L<br>mm | r<br>mm | l<br>mm | b1<br>mm | Calidad<br>Quality / Qualité<br>P-20 | Calidad<br>Quality / Qualité<br>K-10 |         |       |
|---------|---------|---------|---------|---------|----------|--------------------------------------|--------------------------------------|---------|-------|
|         |         |         |         |         |          | Nº Art.                              | €                                    | Nº Art. | €     |
| 20      | x       | 12      | x       | 125     | 0,4      | 20                                   | 12                                   | 55924   | 55926 |
| 25      | x       | 16      | x       | 140     | 0,4      | 25                                   | 16                                   | 55928   | 55932 |
| 32      | x       | 20      | x       | 170     | 0,4      | 32                                   | 20                                   | 55936   | 55938 |

# Ref. 8910

## HERRAMIENTA TORNEADO PLACA SOLDADA ESCUADRADO 90°

90° Offset Side Brazed Turning Tool  
Outil de tour plaque soudé décolletage 90°



DIN  
4980

ISO  
6



|                                                  |                                                  |
|--------------------------------------------------|--------------------------------------------------|
| Aceros <850 N/mm <sup>2</sup><br>Steel / Aciers  | Aceros <1000 N/mm <sup>2</sup><br>Steel / Aciers |
| Aceros <1300 N/mm <sup>2</sup><br>Steel / Aciers | INOX Stainless Steel<br>Acier INOX               |
| Fundición Cast Iron<br>Fonte                     |                                                  |

|                                       |
|---------------------------------------|
| INOX<br>Stainless Steel<br>Acier INOX |
|                                       |
|                                       |

|                                 |
|---------------------------------|
| Fundición<br>Cast Iron<br>Fonte |
| Cobre Copper Cuivre             |
| Aluminio Aluminium              |

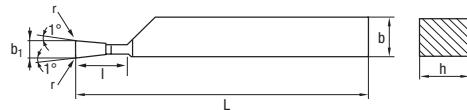
| h<br>mm | b<br>mm | L<br>mm | R/L | n<br>mm | r<br>mm | Calidad<br>Quality / Qualité<br>P-20 | Calidad<br>Quality / Qualité<br>M-20 | Calidad<br>Quality / Qualité<br>K-10 |       |
|---------|---------|---------|-----|---------|---------|--------------------------------------|--------------------------------------|--------------------------------------|-------|
|         |         |         |     |         |         | Nº Art.                              | €                                    | Nº Art.                              | €     |
| 10      | x       | 10      | x   | 090     | -       | L                                    | 4                                    | 0,2                                  | 13601 |
| 10      | x       | 10      | x   | 090     | -       | R                                    | 4                                    | 0,2                                  | 13600 |
| 12      | x       | 12      | x   | 100     | -       | L                                    | 5                                    | 0,4                                  | 13604 |
| 12      | x       | 12      | x   | 100     | -       | R                                    | 5                                    | 0,4                                  | 13603 |
| 16      | x       | 16      | x   | 110     | -       | L                                    | 6                                    | 0,4                                  | 13607 |
| 16      | x       | 16      | x   | 110     | -       | R                                    | 6                                    | 0,4                                  | 13606 |
| 20      | x       | 20      | x   | 125     | -       | L                                    | 8                                    | 0,8                                  | 13612 |
| 20      | x       | 20      | x   | 125     | -       | R                                    | 8                                    | 0,8                                  | 13609 |
| 25      | x       | 25      | x   | 140     | -       | L                                    | 10                                   | 0,8                                  | 13616 |
| 25      | x       | 25      | x   | 140     | -       | R                                    | 10                                   | 0,8                                  | 13615 |

# Ref. 8920

## HERRAMIENTA TORNEADO PLACA SOLDADA TRONZADO

Parting Brazed Turning Tool

Outil de tour plaquette soudé tronçonnage



DIN  
4981

ISO  
7



|                                                     |                                                     |
|-----------------------------------------------------|-----------------------------------------------------|
| Aceros<br><850 N/mm <sup>2</sup><br>Steel / Aciers  | Aceros<br><1000 N/mm <sup>2</sup><br>Steel / Aciers |
| Aceros<br><1300 N/mm <sup>2</sup><br>Steel / Aciers | INOX<br>Stainless Steel<br>Acier INOX               |
| Fundición<br>Cast Iron<br>Fonte                     |                                                     |

INOX  
Stainless Steel  
Acier INOX

|                                 |
|---------------------------------|
| Fundición<br>Cast Iron<br>Fonte |
| Cobre<br>Copper<br>Cuivre       |
| Aluminio<br>Aluminium           |

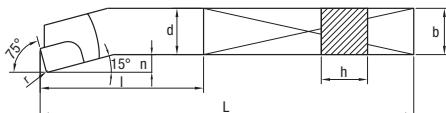
| h<br>mm           | b<br>mm | L<br>mm | R/L | r<br>mm | l<br>mm | b1<br>mm | Calidad<br>Quality / Qualité |         |   | Calidad<br>Quality / Qualité |         |   | Calidad<br>Quality / Qualité |         |   |
|-------------------|---------|---------|-----|---------|---------|----------|------------------------------|---------|---|------------------------------|---------|---|------------------------------|---------|---|
|                   |         |         |     |         |         |          | P-20                         | Nº Art. | € | M-20                         | Nº Art. | € | K-10                         | Nº Art. | € |
| 12 x 8 x 100 - L  | 0,2     | 12      | 3   |         |         |          |                              | 13619   |   |                              |         |   | 28344                        |         |   |
| 12 x 8 x 100 - R  | 0,2     | 12      | 3   |         |         |          |                              | 13618   |   |                              | 56098   |   | 27519                        |         |   |
| 16 x 10 x 110 - L | 0,2     | 14      | 4   |         |         |          |                              | 13622   |   |                              |         |   | 29186                        |         |   |
| 16 x 10 x 110 - R | 0,2     | 14      | 4   |         |         |          |                              | 13621   |   |                              | 56100   |   | 19523                        |         |   |
| 20 x 12 x 125 - L | 0,2     | 16      | 5   |         |         |          |                              | 13625   |   |                              |         |   | 29187                        |         |   |
| 20 x 12 x 125 - R | 0,2     | 16      | 5   |         |         |          |                              | 13624   |   |                              | 56102   |   | 22685                        |         |   |
| 25 x 16 x 140 - L | 0,3     | 20      | 6   |         |         |          |                              | 13628   |   |                              |         |   | 29189                        |         |   |
| 25 x 16 x 140 - R | 0,3     | 20      | 6   |         |         |          |                              | 13627   |   |                              | 56104   |   | 29188                        |         |   |

# Ref. 8925

## HERRAMIENTA TORNEADO PLACA SOLDADA MANDRINADO

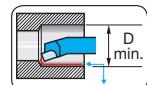
Boring Straight Brazed Turning Tool

Outil de tour plaquette soudé alésage



DIN  
4973

ISO  
8



|                                                     |                                                     |
|-----------------------------------------------------|-----------------------------------------------------|
| Aceros<br><850 N/mm <sup>2</sup><br>Steel / Aciers  | Aceros<br><1000 N/mm <sup>2</sup><br>Steel / Aciers |
| Aceros<br><1300 N/mm <sup>2</sup><br>Steel / Aciers | INOX<br>Stainless Steel<br>Acier INOX               |
| Fundición<br>Cast Iron<br>Fonte                     |                                                     |

|                                 |
|---------------------------------|
| Fundición<br>Cast Iron<br>Fonte |
| Cobre<br>Copper<br>Cuivre       |
| Aluminio<br>Aluminium           |

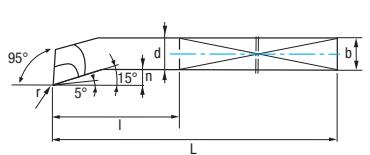
| h<br>mm       | b<br>mm | L<br>mm | n<br>mm | r<br>mm | D<br>min.<br>mm | Calidad<br>Quality / Qualité |         |   | Calidad<br>Quality / Qualité |         |   |
|---------------|---------|---------|---------|---------|-----------------|------------------------------|---------|---|------------------------------|---------|---|
|               |         |         |         |         |                 | P-20                         | Nº Art. | € | K-10                         | Nº Art. | € |
| 8 x 8 x 125   | 3       | 0,4     | 14      |         |                 |                              | 38218   |   |                              | 38220   |   |
| 10 x 10 x 150 | 4       | 0,4     | 18      |         |                 |                              | 38222   |   |                              | 38224   |   |
| 12 x 12 x 180 | 5       | 0,4     | 21      |         |                 |                              | 38227   |   |                              | 38391   |   |
| 16 x 16 x 210 | 6       | 0,4     | 27      |         |                 |                              | 38393   |   |                              | 38395   |   |
| 20 x 20 x 250 | 8       | 0,4     | 34      |         |                 |                              | 38397   |   |                              | 38399   |   |
| 25 x 25 x 300 | 10      | 0,8     | 43      |         |                 |                              | 38401   |   |                              | 38403   |   |

# Ref. 8930

## HERRAMIENTA TORNEADO PLACA SOLDADA CILINDRADO INTERIOR

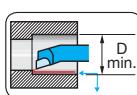
Internal Sharpened Brazed Turning Tool

Outil de tour plaquette soudé cylindrage intérieur



DIN  
4974

ISO  
9



|                                                     |                                                     |
|-----------------------------------------------------|-----------------------------------------------------|
| Aceros<br><850 N/mm <sup>2</sup><br>Steel / Aciers  | Aceros<br><1000 N/mm <sup>2</sup><br>Steel / Aciers |
| Aceros<br><1300 N/mm <sup>2</sup><br>Steel / Aciers | INOX<br>Stainless Steel<br>Acier INOX               |
| Fundición<br>Cast Iron<br>Fonte                     |                                                     |

|                                       |
|---------------------------------------|
| INOX<br>Stainless Steel<br>Acier INOX |
|---------------------------------------|

|                                 |
|---------------------------------|
| Fundición<br>Cast Iron<br>Fonte |
| Cobre<br>Copper<br>Cuivre       |
| Aluminio<br>Aluminium           |

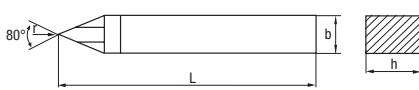
| h<br>mm       | b<br>mm | L<br>mm | d<br>mm | n<br>mm | r<br>mm | I<br>mm | D<br>min.<br>mm | Calidad<br>Quality / Qualité |      | Nº Art. | € | Calidad<br>Quality / Qualité<br>M-20 | Nº Art. | € | Calidad<br>Quality / Qualité<br>K-10 | Nº Art. | € |
|---------------|---------|---------|---------|---------|---------|---------|-----------------|------------------------------|------|---------|---|--------------------------------------|---------|---|--------------------------------------|---------|---|
|               |         |         |         |         |         |         |                 | P-20                         | M-20 |         |   |                                      |         |   |                                      |         |   |
| 8 x 8 x 125   | 8       | 3       | 0,2     | 40      | 14      |         |                 | 13630                        |      | 56114   |   | 14971                                |         |   |                                      |         |   |
| 10 x 10 x 150 | 10      | 4       | 0,2     | 50      | 18      |         |                 | 13631                        |      | 56115   |   | 27462                                |         |   |                                      |         |   |
| 12 x 12 x 180 | 12      | 5       | 0,2     | 63      | 21      |         |                 | 13633                        |      | 56116   |   | 27464                                |         |   |                                      |         |   |
| 16 x 16 x 210 | 16      | 6       | 0,2     | 80      | 27      |         |                 | 13634                        |      | 56117   |   | 11152                                |         |   |                                      |         |   |
| 20 x 20 x 250 | 20      | 8       | 0,4     | 100     | 34      |         |                 | 13636                        |      | 56118   |   | 11754                                |         |   |                                      |         |   |
| 25 x 25 x 300 | 25      | 10      | 0,4     | 125     | 43      |         |                 | 13639                        |      | 56119   |   | 27518                                |         |   |                                      |         |   |
| 32 x 32 x 355 | 32      | 12      | 0,8     | 160     | 52      |         |                 | 13642                        |      | 56121   |   | 13896                                |         |   |                                      |         |   |

# Ref. 8940

## HERRAMIENTA TORNEADO PLACA SOLDADA CILINDRADO RECTO

Sharpened Straight Brazed Turning Tool

Outil de tour plaquette soudé cylindrage droit



DIN  
4975

ISO  
10



|                                                     |                                                     |
|-----------------------------------------------------|-----------------------------------------------------|
| Aceros<br><850 N/mm <sup>2</sup><br>Steel / Aciers  | Aceros<br><1000 N/mm <sup>2</sup><br>Steel / Aciers |
| Aceros<br><1300 N/mm <sup>2</sup><br>Steel / Aciers | INOX<br>Stainless Steel<br>Acier INOX               |
| Fundición<br>Cast Iron<br>Fonte                     |                                                     |

|                                 |
|---------------------------------|
| Fundición<br>Cast Iron<br>Fonte |
| Cobre<br>Copper<br>Cuivre       |
| Aluminio<br>Aluminium           |

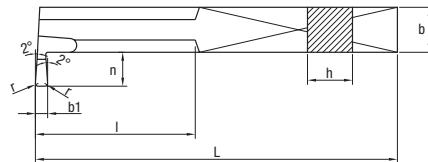
| h<br>mm       | b<br>mm | L<br>mm | r<br>mm | Calidad<br>Quality / Qualité |      | Nº Art. | € | Calidad<br>Quality / Qualité |  | Nº Art. | € |
|---------------|---------|---------|---------|------------------------------|------|---------|---|------------------------------|--|---------|---|
|               |         |         |         | P-20                         | K-10 |         |   |                              |  |         |   |
| 16 x 10 x 110 | 0,2     |         |         | 13645                        |      | 29190   |   |                              |  |         |   |
| 20 x 12 x 125 | 0,4     |         |         | 13646                        |      | 29191   |   |                              |  |         |   |
| 25 x 16 x 140 | 0,4     |         |         | 13648                        |      | 29192   |   |                              |  |         |   |

# Ref. 8950

## HERRAMIENTA TORNEADO PLACA SOLDADA RANURADO INTERIOR

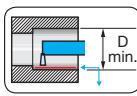
Internal Undercutting Brazed Turning Tool

Outil de tour plaque soudé rainurage intérieur



DIN  
263

ISO  
11



Aceros  
<850 N/mm<sup>2</sup>  
Steel / Aciers

Aceros  
<1300 N/mm<sup>2</sup>  
Steel / Aciers

Fundición  
Cast Iron  
Fonte

Aceros  
<1000 N/mm<sup>2</sup>  
Steel / Aciers

INOX  
Stainless Steel  
Acier INOX

Cobre  
Copper  
Cuivre

Fundición  
Cast Iron  
Fonte

Aluminio  
Aluminium

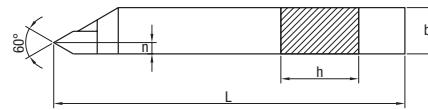
| h<br>mm       | b<br>mm | L<br>mm | n<br>mm | r<br>mm | b1<br>mm | D<br>min.<br>mm | Calidad<br>Quality / Qualité |         | Calidad<br>Quality / Qualité |       |
|---------------|---------|---------|---------|---------|----------|-----------------|------------------------------|---------|------------------------------|-------|
|               |         |         |         |         |          |                 | P-20                         | Nº Art. | €                            | K-10  |
| 12 x 12 x 180 | 10      | 0,2     | 4       |         |          | 32              | 38405                        |         |                              | 38407 |
| 16 x 16 x 210 | 12      | 0,2     | 5       |         |          | 40              | 38409                        |         |                              | 38411 |
| 20 x 20 x 250 | 16      | 0,4     | 6       |         |          | 50              | 38413                        |         |                              | 38415 |
| 25 x 25 x 300 | 20      | 0,4     | 8       |         |          | 63              | 38417                        |         |                              | 38419 |

# Ref. 8960

## HERRAMIENTA TORNEADO PLACA SOLDADA ROSCADO EXTERIOR

External Threading Brazed Turning Tool

Outil de tour plaque soudé taraudage extérieur



DIN  
282

ISO  
12



Aceros  
<850 N/mm<sup>2</sup>  
Steel / Aciers

Aceros  
<1300 N/mm<sup>2</sup>  
Steel / Aciers

Fundición  
Cast Iron  
Fonte

Aceros  
<1000 N/mm<sup>2</sup>  
Steel / Aciers

INOX  
Stainless Steel  
Acier INOX

Fundición  
Cast Iron  
Fonte

Cobre  
Copper  
Cuivre

Aluminio  
Aluminium

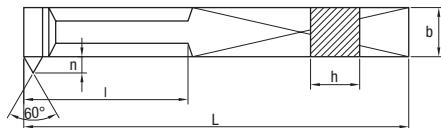
| h<br>mm           | b<br>mm | L<br>mm | R/L | n<br>mm | Calidad<br>Quality / Qualité |         |   | Calidad<br>Quality / Qualité |         |   |
|-------------------|---------|---------|-----|---------|------------------------------|---------|---|------------------------------|---------|---|
|                   |         |         |     |         | P-20                         | Nº Art. | € | K-10                         | Nº Art. | € |
| 16 x 10 x 110 - L |         | 2,0     |     |         |                              | 38422   |   |                              | 38424   |   |
| 16 x 10 x 110 - R |         | 2,0     |     |         |                              | 38421   |   |                              | 38423   |   |
| 20 x 12 x 125 - L |         | 2,5     |     |         |                              | 38426   |   |                              | 38428   |   |
| 20 x 12 x 125 - R |         | 2,5     |     |         |                              | 38425   |   |                              | 38427   |   |
| 25 x 16 x 140 - L |         | 3,0     |     |         |                              | 38430   |   |                              | 38432   |   |
| 25 x 16 x 140 - R |         | 3,0     |     |         |                              | 38429   |   |                              | 38431   |   |

Ref. **8970**

## HERRAMIENTA TORNEADO PLACA SOLDADA ROSCADO INTERIOR

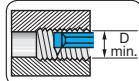
Internal Threading Brazed Turning Tool

Outil de tour plaquette soudé taraudage intérieur



DIN  
283

ISO  
13



Aceros  
<850 N/mm<sup>2</sup>  
Steel / Aciers

Aceros  
<1300 N/mm<sup>2</sup>  
Steel / Aciers

Fundición  
Cast Iron  
Fonte

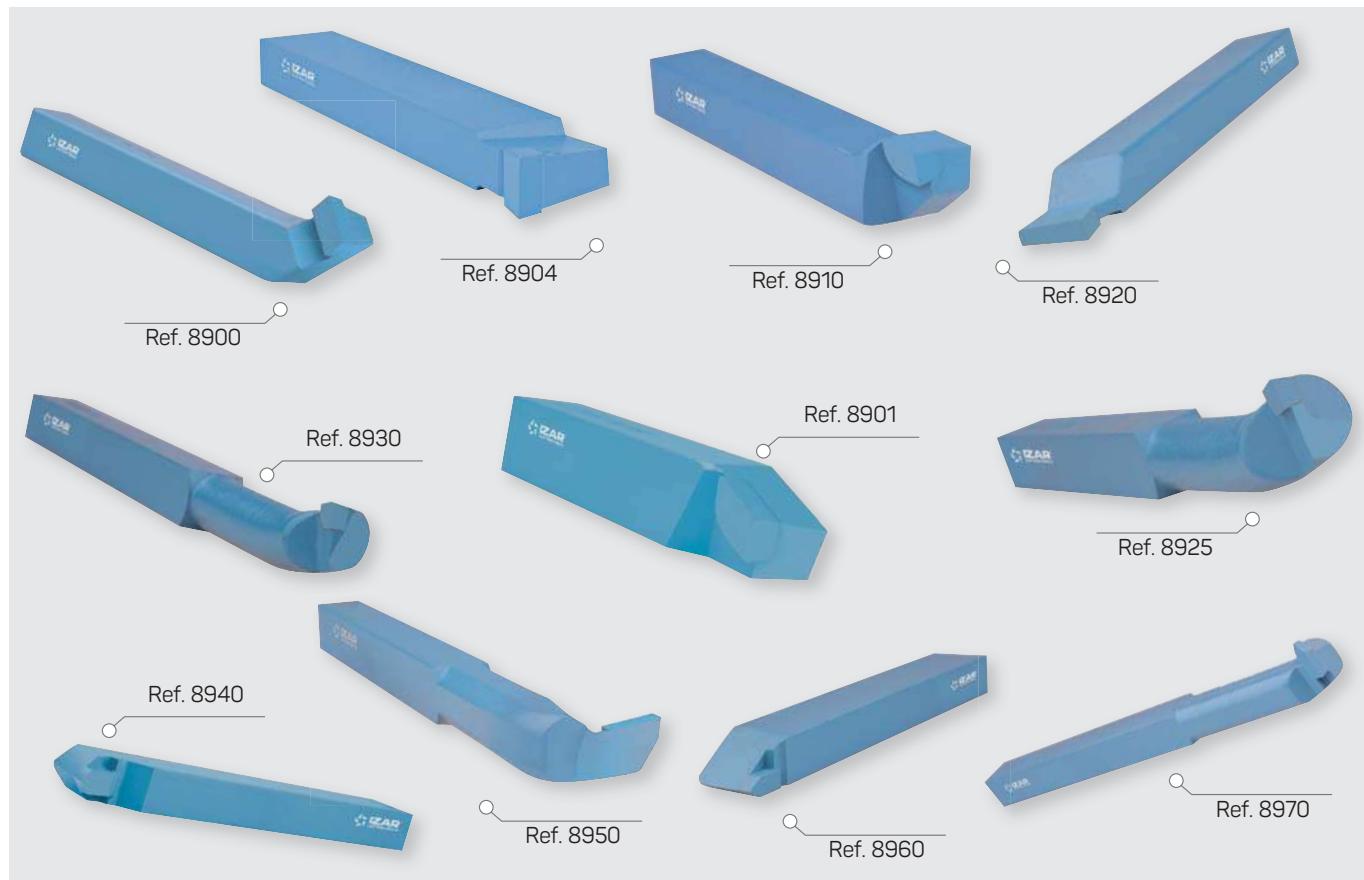
Aceros  
<1000 N/mm<sup>2</sup>  
Steel / Aciers

INOX  
Stainless Steel  
Acier INOX

Cobre  
Copper  
Cuivre

Aluminio  
Aluminium

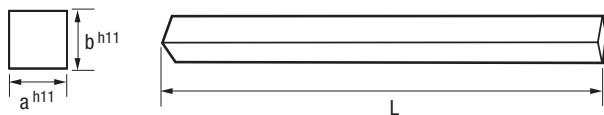
| h<br>mm | b<br>mm | L<br>mm | R/L | n<br>mm | D<br>min.<br>mm | Calidad<br>Quality / Qualité |         | Calidad<br>Quality / Qualité |       |
|---------|---------|---------|-----|---------|-----------------|------------------------------|---------|------------------------------|-------|
|         |         |         |     |         |                 | P-20                         | Nº Art. | €                            | K-10  |
| 10      | x       | 10      | x   | 150     | -               | L                            | 5       | 22                           | 38434 |
| 10      | x       | 10      | x   | 150     | -               | R                            | 5       | 22                           | 38433 |
| 12      | x       | 12      | x   | 180     | -               | L                            | 6       | 24                           | 38438 |
| 12      | x       | 12      | x   | 180     | -               | R                            | 6       | 24                           | 38437 |
| 16      | x       | 16      | x   | 210     | -               | L                            | 8       | 32                           | 38442 |
| 16      | x       | 16      | x   | 210     | -               | R                            | 8       | 32                           | 38441 |
| 20      | x       | 20      | x   | 250     | -               | L                            | 10      | 40                           | 38446 |
| 20      | x       | 20      | x   | 250     | -               | R                            | 10      | 40                           | 38445 |
| 25      | x       | 25      | x   | 300     | -               | L                            | 12      | 49                           | 38450 |
| 25      | x       | 25      | x   | 300     | -               | R                            | 12      | 49                           | 38449 |



# Ref. 8990

## UCHILLA CUADRADA TORNEADO

Square Turning Blade  
Outil de tour carré



Cuchillas Torno  
Turning Tools  
Outils de tour

HSSE  
10%Co

DIN  
4964B

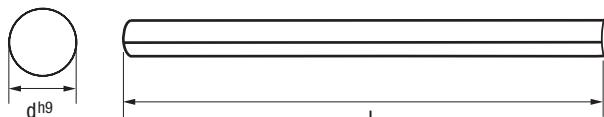


| a<br>mm | b<br>mm | L<br>mm  | Nº<br>Art. | € |
|---------|---------|----------|------------|---|
| 6       | x       | 6 x 100  | 35462      |   |
| 6       | x       | 6 x 160  | 35463      |   |
| 6       | x       | 6 x 200  | 35464      |   |
| 8       | x       | 8 x 100  | 35465      |   |
| 8       | x       | 8 x 160  | 35466      |   |
| 8       | x       | 8 x 200  | 35467      |   |
| 10      | x       | 10 x 100 | 35468      |   |
| 10      | x       | 10 x 160 | 35469      |   |
| 10      | x       | 10 x 200 | 35470      |   |
| 12      | x       | 12 x 100 | 35471      |   |
| 12      | x       | 12 x 160 | 35472      |   |
| 12      | x       | 12 x 200 | 35473      |   |
| 14      | x       | 14 x 200 | 35474      |   |
| 16      | x       | 16 x 200 | 35475      |   |
| 18      | x       | 18 x 200 | 35476      |   |
| 20      | x       | 20 x 200 | 35477      |   |
| 25      | x       | 25 x 200 | 35478      |   |

# Ref. 8991

## UCHILLA REDONDA TORNEADO

Round Turning Blade  
Outil de tour rond



Cuchillas Torno  
Turning Tools  
Outils de tour

HSSE  
10%Co

DIN  
4964A



| d<br>mm | L<br>mm | Nº<br>Art. | € |
|---------|---------|------------|---|
| 4       | x 100   | 35479      |   |
| 5       | x 100   | 35480      |   |
| 5       | x 200   | 35481      |   |
| 6       | x 100   | 35482      |   |
| 6       | x 160   | 35484      |   |
| 6       | x 200   | 35483      |   |
| 8       | x 100   | 35485      |   |
| 8       | x 160   | 35486      |   |
| 8       | x 200   | 35487      |   |
| 10      | x 100   | 35488      |   |
| 10      | x 160   | 35489      |   |
| 10      | x 200   | 35490      |   |
| 12      | x 100   | 35491      |   |
| 12      | x 200   | 35492      |   |
| 14      | x 200   | 35493      |   |
| 16      | x 200   | 35494      |   |
| 18      | x 200   | 35495      |   |
| 20      | x 200   | 35497      |   |

Ref. **8992**

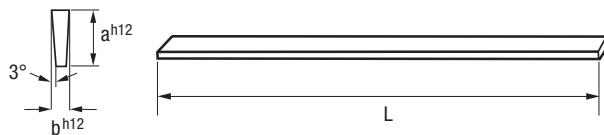
## UCHILLA TRAPEZOIDAL TORNEADO

Trapezoidal Turning Blade  
Outil de tour trapézoïdal

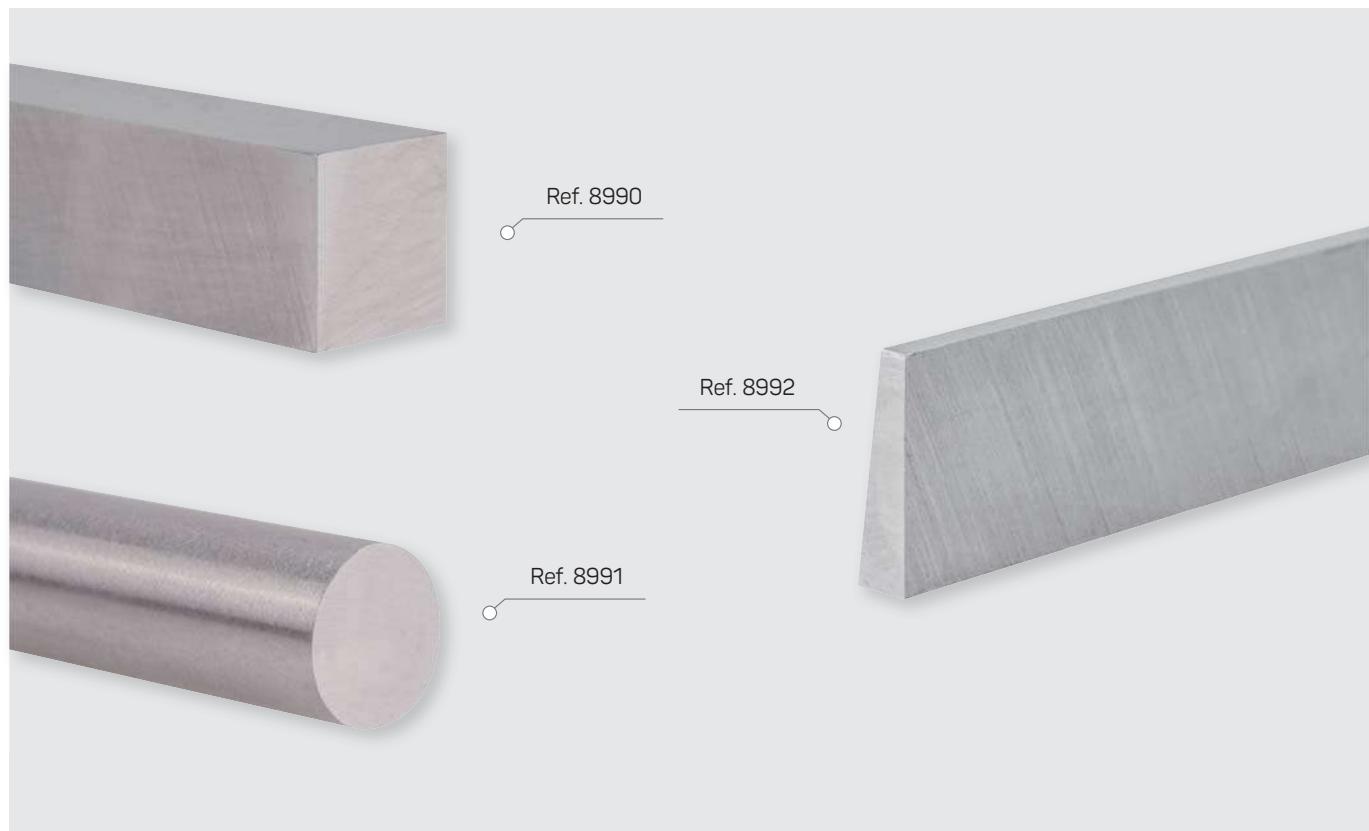


HSSE  
10%Co

DIN  
4964E



| a<br>mm | b<br>mm | L<br>mm | Nº<br>Art. | € |
|---------|---------|---------|------------|---|
| 10      | 2,50    | x 100   | 13690      |   |
| 12      | 3,00    | x 100   | 13691      |   |
| 12      | 3,00    | x 160   | 13693      |   |
| 16      | 4,00    | x 100   | 13782      |   |
| 16      | 4,00    | x 160   | 13786      |   |
| 20      | 5,00    | x 160   | 13787      |   |
| 20      | 5,00    | x 200   | 14213      |   |
| 25      | 6,00    | x 160   | 14225      |   |



# Ref. 8301

## GRANETE

Centre Punch  
Pointeau à marquer



Ref. 8301

Hasta fin de existencias  
While stock lasts  
Jusqu'à la fin de stock

| D<br>mm | d<br>mm | L<br>mm |    | Nº<br>Art. | €<br>1 ud. |
|---------|---------|---------|----|------------|------------|
| 2       | 9       | 130     | 10 | 13302      |            |
| 4       | 9       | 130     | 10 | 13304      |            |
| 5       | 11      | 150     | 10 | 13305      |            |
| 6       | 11      | 160     | 10 | 13306      |            |
| 8       | 11      | 160     | 10 | 13307      |            |



# Ref. 8302

## BOTADOR CÓNICO

Taper Punch  
Poinçon conique



Ref. 8302

Hasta fin de existencias  
While stock lasts  
Jusqu'à la fin de stock

| D<br>mm | d<br>mm | L<br>mm |    | Nº<br>Art. | €<br>1 ud. |
|---------|---------|---------|----|------------|------------|
| 2       | 9       | 130     | 10 | 13308      |            |
| 4       | 9       | 130     | 10 | 13309      |            |
| 5       | 9       | 130     | 10 | 13310      |            |
| 6       | 11      | 160     | 10 | 13311      |            |
| 8       | 11      | 160     | 10 | 13312      |            |
| 10      | 11      | 160     | 10 | 13313      |            |



# Ref. 8303

## BOTADOR CILÍNDRICO

Parallel Punch  
Poinçon cylindrique



Ref. 8303

Hasta fin de existencias  
While stock lasts  
Jusqu'à la fin de stock

| D<br>mm | d<br>mm | L<br>mm |    | Nº<br>Art. | €<br>1 ud. |
|---------|---------|---------|----|------------|------------|
| 2       | 9       | 160     | 10 | 13314      |            |
| 3       | 9       | 160     | 10 | 13315      |            |
| 4       | 9       | 160     | 10 | 13317      |            |
| 5       | 11      | 160     | 10 | 13316      |            |
| 6       | 11      | 160     | 10 | 13318      |            |
| 7       | 11      | 160     | 10 | 13324      |            |
| 8       | 11      | 160     | 10 | 13915      |            |
| 9       | 11      | 160     | 10 | 13916      |            |
| 10      | 11      | 160     | 10 | 13917      |            |



# Ref. 8304

## CINCEL Y BURIL

Cold & Cape Chisel  
Ciseau et burin



Ref. 8304

Hasta fin de existencias  
While stock lasts  
Jusqu'à la fin de stock

| Tipo<br>Type Type            | D<br>mm | d<br>mm | L<br>mm |    | Nº<br>Art. | €<br>1 ud. |
|------------------------------|---------|---------|---------|----|------------|------------|
| Cincel<br>Cold Chisel Ciseau | 12      | 9,5     | 13      | 10 | 13918      |            |
| Buril<br>Cape Chisel Burin   | 5       | 9,5     | 13      | 10 | 13920      |            |



Ref. **8310**

## SETS GRANETES, BOTADORES, CINCELES Y BURILES

Punches and Chisels Sets

Sets pointeaux, poinçons, ciseaux et burins

Ref. 8310

Hasta fin de existencias / while stock lasts / jusqu'à la fin de stock



Mod. 1

6 Pcs

| Cont. Ref. | Cont. Descrip.                                    | Nº Art. | € |
|------------|---------------------------------------------------|---------|---|
| 8304       | Buril, Cincel, Cónicos 2-4, Granetes 4-6          |         |   |
| 8302       | Cold & Cape Chisel, Taper 2-4 & Centre Punch. 4-6 | 13921   |   |
| 8301       | Burin, Ciseau, Coniques 2-4, Pointeaux 4-6        |         |   |



Mod. 2

6 Pcs

| Cont. Ref. | Cont. Descrip.                                         | Nº Art. | € |
|------------|--------------------------------------------------------|---------|---|
|            | Buril, Cincel, Cónico 4, Granete 4, Cilíndricos 4-8    |         |   |
| 8304       | Cold & Cape Chisel, Taper 4, Centre 4 & Parallel 4-8   |         |   |
| 8302       | Burin, Ciseau, Conique 4, Pointeau 4, Cylindriques 4-8 | 13923   |   |
| 8301       |                                                        |         |   |
| 8303       |                                                        |         |   |



Mod. 3

6 Pcs

| Cont. Ref. | Cont. Descrip.                             | Nº Art. | € |
|------------|--------------------------------------------|---------|---|
| 8304       | Buril, Cincel, Granetes 2-4-6-8            |         |   |
| 8301       | Cold & Cape Chisel, Centre Punches 2-4-6-8 | 13924   |   |
|            | Burin, Ciseau, Pointeaux 2-4-6-8           |         |   |



Mod. 4

6 Pcs

| Cont. Ref. | Cont. Descrip.             | Nº Art. | € |
|------------|----------------------------|---------|---|
|            | Cónicos 2-4-5-6-8-10       |         |   |
| 8302       | Taper Punches 2-4-5-6-8-10 | 13926   |   |
|            | Coniques 2-4-5-6-8-10      |         |   |



Mod. 5

6 Pcs

| Cont. Ref. | Cont. Descrip.               | Nº Art. | € |
|------------|------------------------------|---------|---|
| 8303       | Cilíndricos 2-3-4-5-6-7      |         |   |
|            | Parallel Punches 2-3-4-5-6-7 | 13927   |   |
|            | Cylindriques 2-3-4-5-6-7     |         |   |



Mod. 6

6 Pcs

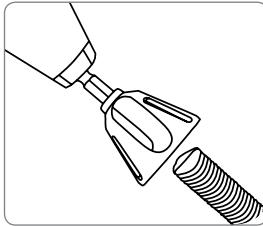
| Cont. Ref. | Cont. Descrip.                | Nº Art. | € |
|------------|-------------------------------|---------|---|
| 8303       | Cilíndricos 5-6-7-8-9-10      |         |   |
|            | Parallel Punches 5-6-7-8-9-10 | 13928   |   |
|            | Cylindriques 5-6-7-8-9-10     |         |   |

# Ref. 8352

## REBARBADOR EXTERIOR

External Chamfer Tool  
Outil de chanfrein externe

New!



1/4"  
DIN E6.3

Std +  
Imp. Driver

Aceros  
<850 N/mm<sup>2</sup>  
Steel / Aciers

Fundición  
Cast Iron  
Fonte

Cobre  
Copper  
Cuivre

Latón  
Brass  
Laiton

Aluminio  
Aluminium

| Cap.        | Nº Art. | € |
|-------------|---------|---|
| Ø 6 - 25 mm | 25381   |   |

# Ref. 8350

## JUEGO REBARBADORES

Deburring Tool Sets  
Jeux ébavureurs



### MOD. B



Juego  
Mod. B  
Set



Aceros  
<850 N/mm<sup>2</sup>  
Steel / Aciers

Fundición  
Cast Iron  
Fonte

Cobre  
Copper  
Cuivre

Latón  
Brass  
Laiton

Aluminio  
Aluminium

Plásticos  
Plastics  
Plastiques



4 Pcs

| Cont.                                                        | Nº Art. | € |
|--------------------------------------------------------------|---------|---|
| Mango / Shank / Queue<br>Porta Universal Holder<br>B10 / B20 | 12816   |   |

### MOD. E



Juego  
Mod. E  
Set



Aceros  
<850 N/mm<sup>2</sup>  
Steel / Aciers

Fundición  
Cast Iron  
Fonte

Cobre  
Copper  
Cuivre

Latón  
Brass  
Laiton

Aluminio  
Aluminium

Plásticos  
Plastics  
Plastiques



5 Pcs

| Cont.                                                                 | Nº Art. | € |
|-----------------------------------------------------------------------|---------|---|
| Mango / Shank / Queue<br>Porta Universal Holder<br>E100 / E200 / E300 | 12805   |   |

Ref. **8351**

## ACCESORIOS REBARBADORES

Deburring Tool Accessories

Accessoires ébavureurs



Mango / Shank / Queue



| Medida<br>Size - Dimension | Nº<br>Art. | €     |
|----------------------------|------------|-------|
| 00001                      | 1          | 12834 |



Porta Universal Holder

| Medida<br>Size - Dimension | Nº Art. | €     |
|----------------------------|---------|-------|
| 00006UNI                   | 1       | 76576 |



| Cuchillas<br>Blades<br>Lames | Material<br>Materiel | Nº<br>Art. | €<br>pack |
|------------------------------|----------------------|------------|-----------|
| B10                          | HSS                  | 10         | 12825     |
| B20                          | HSS                  | 10         | 12827     |



| Cuchillas<br>Blades<br>Lames | Material<br>Materiel | Nº<br>Art. | €<br>pack |
|------------------------------|----------------------|------------|-----------|
| E100                         | HSS                  | 10         | 12829     |
| E100S                        | HSSE                 | 10         | 12830     |
| E200                         | HSS                  | 10         | 12831     |
| E300                         | HSS                  | 10         | 12833     |

| Aplicación<br>Application<br>Application                                     | Material<br>Material<br>Materiel | Aceros<br><850 N/mm <sup>2</sup><br>Steel / Aciers | Cobre<br>Copper<br>Cuivre | Aluminio<br>Aluminium | Fundición<br>Cast Iron<br>Fonte | Latón<br>Brass<br>Laiton | INOX<br>Stainless Steel<br>Acier INOX | Plásticos<br>Plastics<br>Plastiques |
|------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------|---------------------------|-----------------------|---------------------------------|--------------------------|---------------------------------------|-------------------------------------|
| Bordes rectos<br>Straight Edges<br>Bouts droits                              |                                  | B10<br>E100<br>E100S                               | B20<br>E200               |                       | E100S                           |                          | B10<br>E100<br>E100S<br>B20<br>E200   |                                     |
| Bordes de Agujeros<br>Hole Edges<br>Bouts de trous                           |                                  |                                                    |                           |                       |                                 |                          |                                       |                                     |
| Bordes Agujeros Pasantes<br>Through Hole Edges<br>Bouts de trous débouchants |                                  |                                                    | E300                      |                       |                                 |                          |                                       | E300                                |

# Ref. 8325

## CORTA TUBOS 25 mm

25 mm Pipe Cutters

Coupe tubes 25 mm



3-25  
mm

1/8 - 1"



Mini  
Compact



**INOX**  
Stainless Steel  
Acier INOX

**Cobre**  
Copper  
Cuivre

**Aluminio**  
Aluminium

| Mod. | Min.<br>mm | Max.<br>mm | Pulgadas<br>Inches<br>Pouces | Nº Art. | € |
|------|------------|------------|------------------------------|---------|---|
| 25   | 3          | 25         | 1/8 - 1"                     | 34244   |   |

# Ref. 8330

## CORTA TUBOS 30 mm

30 mm Pipe Cutters

Coupe tubes 30 mm



3-30  
mm

1/8 -  
1" 1/8



**INOX**  
Stainless Steel  
Acier INOX

**Cobre**  
Copper  
Cuivre

**Aluminio**  
Aluminium

| Mod. | Min.<br>mm | Max.<br>mm | Pulgadas<br>Inches<br>Pouces | Nº Art. | € |
|------|------------|------------|------------------------------|---------|---|
| 30   | 3          | 30         | 1/8 - 1" 1/8                 | 34245   |   |

# Ref. 8335

## CORTA TUBOS 35 mm

35 mm Pipe Cutters

Coupe tubes 35 mm



3-35  
mm

1/8 -  
1" 3/8



**Cambio Rápido Cuchilla**  
Quick Cutting Wheel Change  
Changement rapide molette

**Rebarbador incluido**  
Deburring Tool included  
Ébavureur compris



**INOX**  
Stainless Steel  
Acier INOX

**Cobre**  
Copper  
Cuivre

**Aluminio**  
Aluminium

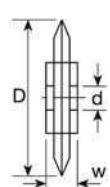
| Mod. | Min.<br>mm | Max.<br>mm | Pulgadas<br>Inches<br>Pouces | Nº Art. | € |
|------|------------|------------|------------------------------|---------|---|
| 35   | 3          | 35         | 1/8 - 1" 3/8                 | 34246   |   |

# Ref. 8341

## CUCHILLAS REPUESTO

Spare Wheels

Lames de rechange



| Mod. | D<br>mm | d<br>mm | w<br>mm | Nº Art. | € |
|------|---------|---------|---------|---------|---|
| 1    | 20      | 5       | 5       | 34247   |   |

# Ref. 8326

## CORTA TUBOS TIJERA PLÁSTICO Y MULTICAPA

Plastic & Multilayer Pipe Scissors

Coupe tubes ciseaux pour plastique et multicouche



26 mm  
(1")

INOX+Teflon®  
Stainless+Teflon®  
INOX+Téflon®

Cuerpo Mg  
Mg Body  
Corps Mg

PE, PP, PB, PEX, MLP/MSR, VPE, CPVC,  
PVC, PVDF, PPR



1- Cuchilla INOX + Teflon®: Menor adherencia entre tubo y cuchilla

2- Zona de apoyo mejorada: Tubo mejor asentado, corte más preciso

3- Cambio cuchilla instantáneo: Sin necesidad de herramientas

1- Stainless + Teflon® blade: Lower adhesion between pipe & blade

2- Improved base area: Better leaned pipe, accurate cutting

3- Instant blade change: No tools needed

1- Lame INOX + Téflon®: Moindre adhérence entre tuyau et lame

2- Zone d'appui améliorée: Tuyau mieux fixé, coupe plus précis

3- Changement de lame immédiat: Sans besoin d'outils



| Mod. | Max.<br>mm | Pulgadas<br>Inches<br>Pouces | Nº<br>Art. | € |
|------|------------|------------------------------|------------|---|
| 26   | 26         | 1"                           | 36633      |   |

# Ref. 8321

INOX+Teflon®  
Stainless+Teflon®  
INOX+Téflon®



| Hoja<br>Blade<br>Lame<br>mm | Nº<br>Art. | €     |
|-----------------------------|------------|-------|
| 26                          | 1          | 37423 |

# Ref. 8342

## CORTA TUBOS TIJERA PLÁSTICO Y MULTICAPA

Plastic & Multilayer Pipe Scissors

Coupe tubes ciseaux pour plastique et multicouche



42 mm  
(1 5/8")

INOX+Teflon®  
Stainless+Teflon®  
INOX+Téflon®

Cuerpo Mg  
Mg Body  
Corps Mg

PE, PP, PB, PEX, MLP/MSR, VPE, CPVC,  
PVC, PVDF, PPR



1- Cuchilla INOX + Teflon®: Menor adherencia entre tubo y cuchilla

2- Zona de apoyo mejorada: Tubo mejor asentado, corte más preciso

3- Cambio cuchilla instantáneo: Sin necesidad de herramientas

4- Cuchilla recogida en el cuerpo

1- Stainless + Teflon® blade: Lower adhesion between pipe & blade

2- Improved base area: Better leaned pipe, accurate cutting

3- Instant blade change: No tools needed

4- Blade positioned within the body

1- Lame INOX + Téflon®: Moindre adhérence entre tuyau et lame

2- Zone d'appui améliorée: Tuyau mieux fixé, coupe plus précis

3- Changement de lame immédiat: Sans besoin d'outils

4- Lame dans le corps de l'outil



| Mod. | Max.<br>mm | Pulgadas<br>Inches<br>Pouces | Nº<br>Art. | € |
|------|------------|------------------------------|------------|---|
| 42   | 42         | 1"5/8                        | 36635      |   |

# Ref. 8321

INOX+Teflon®  
Stainless+Teflon®  
INOX+Téflon®



| Hoja<br>Blade<br>Lame<br>mm | Nº<br>Art. | €     |
|-----------------------------|------------|-------|
| 42                          | 1          | 37424 |

Ref. **8345**

## RECOGEVIRUTAS MAGNÉTICO

Magnetic Retrieving Baton

Aimant à copeaux



| D<br>mm | L<br>mm | Nº<br>Art. | € |
|---------|---------|------------|---|
| 25,40   | 400     | 69499      |   |

**Imán especialmente diseñado para recoger viruta ferrosa en lugares difícilmente accesibles. Ideal para cubos de almacenaje, limpieza de agua o desengrasado de tanques, muros y esquinas... Práctico extensor que deja caer el material recogido a la vez que protege la mano de la viruta.**

Specially designed Magnet to retrieve ferrous metal materials from hard to reach locations. Ideal for storage bins, water cleaning or tank degreasing, walls and corners... Practical extension for an easy releasing the collected material. It protects the hand from the chips.

Aimant spécialement dessiné pour ramasser les copeaux de fer dans des zones de difficile accès. Conseillés pour nettoyage d'eau, murs, coins. Pratique extenseur qui permet que le matériel tombe une fois ramassé et protège les mains des copeaux.

## CONSTRUCCIÓN

Construction

Construction

### HERRAMIENTAS SDS PLUS

SDS plus Tools  
Outils SDS plus

210

### HERRAMIENTAS SDS MAX

SDS max Tools  
Outils SDS max

220

### ADAPTADOR iCONNECT

iConnect Adaptor  
Adaptateur iConnect

224

### CINCELES

Chisels  
Burins

226

### BROCAS MANGO CILÍNDRICO

Straight Shank Drill Bits  
Forets queue cylindrique

230

### CORONAS

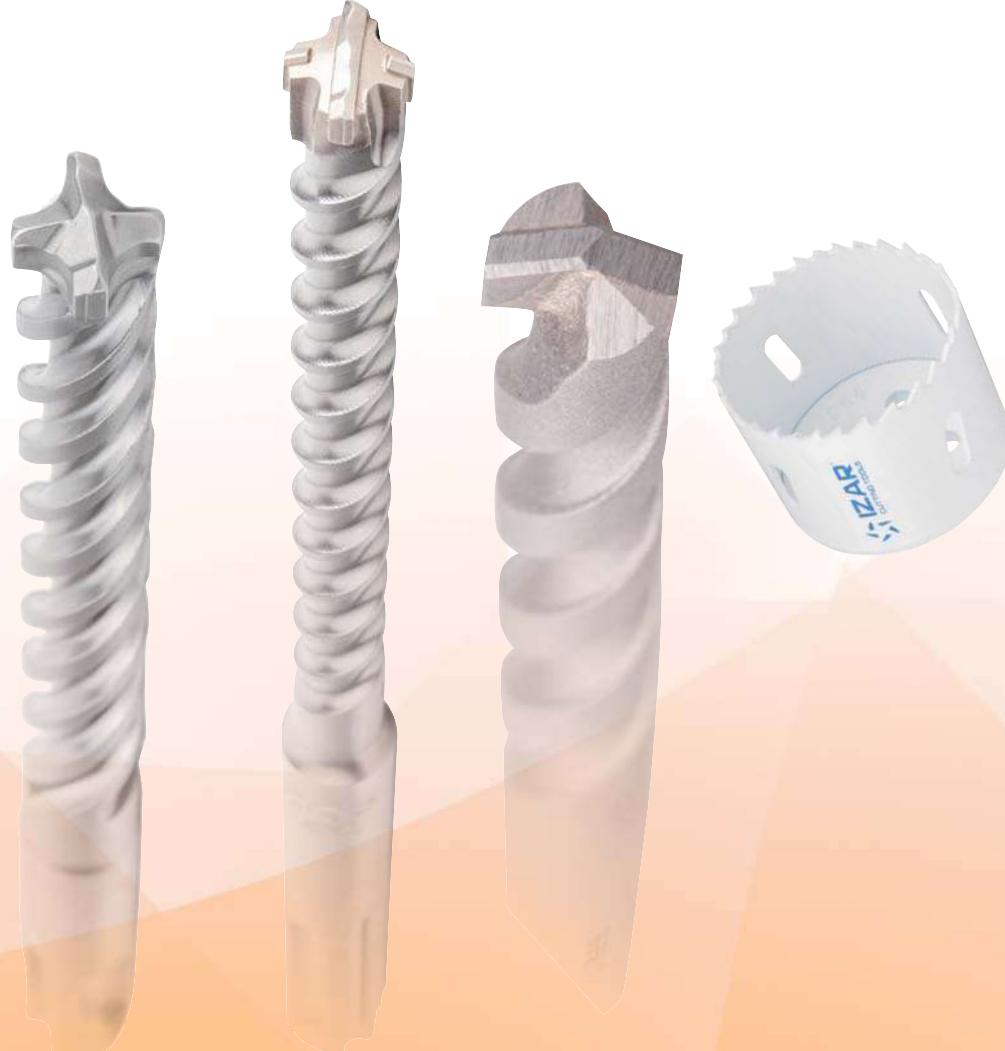
Hole Saws  
Trépans

247

### DISCOS DIAMANTE

Diamond Cutting Blades  
Disques diamant

257



# HERRAMIENTAS SDS PLUS

SDS plus Tools

Outils SDS plus

Ref. **1891**

**Zentro 4+**

## BROCA-MARTILLO SDS PLUS 4Z+

4Z+ Cutter SDS plus Rotary Hammer Drill Bit  
Foret percussion SDS plus 4Z+



Zentro  
**4+**  
<10mm

Zentro  
4  
10-16 mm

SDS  
plus



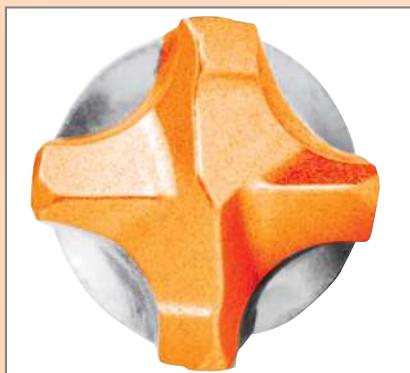
▶ Video

**Hormigón Reforzado**  
Reinforced Concrete  
Béton armé

**Hormigón**  
Concrete  
Béton

**Hormigón Bloque**  
Concrete Block  
Parpaing

**Piedra Natural**  
Natural Stone  
Pierre naturelle



**Punta centradora MD** soldada al cuerpo

**Solid carbide centering** tip welded to the body

**Pointe autocentrante** carbure soudée au corps



### Hombros reforzados

=> Mejor rotura del material.  
Marca desgaste

### Reinforced shoulders

=> Better material breaking.  
Wear Marking

### Épaules de la pointe renforcées

=> Meilleure rupture du matériel.  
Marque l'usure.



### Diseño núcleo reforzado exclusivo

=> Mejor rendimiento y vida más larga

### Exclusive reinforced core design

=> Better performance & longer life

### Dessin noyau renforcé et exclusif

=> Meilleure performance et vie de l'outil plus longue

Ref. **1891**

## BROCA-MARTILLO SDS PLUS 4Z+

4Z+ Cutter SDS plus Rotary Hammer Drill Bit

Foret percussion SDS plus 4Z+

| D<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | € |
|---------|---------|---------|---|------------|---|
| 5,00    | 115     | 50      | 1 | 32043      |   |
| 5,00    | 165     | 100     | 1 | 32044      |   |
| 5,00    | 215     | 150     | 1 | 55961      |   |
| 5,00    | 265     | 200     | 1 | 66376      |   |
| 5,00    | 315     | 250     | 1 | 69437      |   |
| 5,50    | 115     | 50      | 1 | 32041      |   |
| 5,50    | 165     | 100     | 1 | 32042      |   |
| 6,00    | 115     | 50      | 1 | 32045      |   |
| 6,00    | 165     | 100     | 1 | 32046      |   |
| 6,00    | 215     | 150     | 1 | 32047      |   |
| 6,00    | 265     | 200     | 1 | 32048      |   |
| 6,00    | 315     | 250     | 1 | 32049      |   |
| 6,50    | 165     | 100     | 1 | 32050      |   |
| 6,50    | 215     | 150     | 1 | 32074      |   |
| 6,50    | 265     | 200     | 1 | 32072      |   |
| 6,50    | 315     | 250     | 1 | 32073      |   |
| 7,00    | 115     | 50      | 1 | 32052      |   |
| 7,00    | 165     | 100     | 1 | 32053      |   |
| 7,00    | 215     | 150     | 1 | 68615      |   |
| 8,00    | 115     | 50      | 1 | 32054      |   |
| 8,00    | 165     | 100     | 1 | 32055      |   |
| 8,00    | 215     | 150     | 1 | 32056      |   |
| 8,00    | 265     | 200     | 1 | 32057      |   |
| 8,00    | 315     | 250     | 1 | 36686      |   |
| 8,00    | 465     | 400     | 1 | 36687      |   |
| 9,00    | 165     | 100     | 1 | 56808      |   |
| 10,00   | 115     | 50      | 1 | 32058      |   |

| D<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | € |
|---------|---------|---------|---|------------|---|
| 10,00   | 165     | 100     | 1 | 32059      |   |
| 10,00   | 215     | 150     | 1 | 32060      |   |
| 10,00   | 265     | 200     | 1 | 32061      |   |
| 10,00   | 315     | 250     | 1 | 32062      |   |
| 10,00   | 455     | 400     | 1 | 32063      |   |
| 10,00   | 600     | 550     | 1 | 36688      |   |
| 10,00   | 1000    | 950     | 1 | 36689      |   |
| 11,00   | 160     | 110     | 1 | 69899      |   |
| 11,00   | 210     | 160     | 1 | 69902      |   |
| 11,00   | 260     | 210     | 1 | 69904      |   |
| 11,00   | 310     | 260     | 1 | 81562      |   |
| 12,00   | 160     | 110     | 1 | 32064      |   |
| 12,00   | 210     | 160     | 1 | 32065      |   |
| 12,00   | 260     | 210     | 1 | 32066      |   |
| 12,00   | 310     | 260     | 1 | 32067      |   |
| 12,00   | 450     | 400     | 1 | 32068      |   |
| 12,00   | 600     | 550     | 1 | 36690      |   |
| 12,00   | 1000    | 950     | 1 | 36697      |   |
| 13,00   | 160     | 110     | 1 | 69905      |   |
| 13,00   | 210     | 160     | 1 | 69907      |   |
| 13,00   | 260     | 210     | 1 | 69908      |   |
| 13,00   | 310     | 260     | 1 | 81563      |   |
| 14,00   | 160     | 110     | 1 | 32069      |   |
| 14,00   | 210     | 160     | 1 | 32070      |   |
| 14,00   | 260     | 210     | 1 | 32071      |   |
| 14,00   | 310     | 260     | 1 | 36691      |   |
| 14,00   | 450     | 400     | 1 | 36692      |   |

| D<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | € |
|---------|---------|---------|---|------------|---|
| 14,00   | 600     | 550     | 1 | 36693      |   |
| 14,00   | 1000    | 950     | 1 | 36694      |   |
| 15,00   | 160     | 110     | 1 | 60059      |   |
| 15,00   | 260     | 210     | 1 | 60061      |   |
| 15,00   | 450     | 400     | 1 | 60062      |   |
| 16,00   | 160     | 110     | 1 | 36695      |   |
| 16,00   | 210     | 160     | 1 | 36696      |   |
| 16,00   | 260     | 210     | 1 | 36863      |   |
| 16,00   | 310     | 260     | 1 | 36699      |   |
| 16,00   | 450     | 400     | 1 | 37455      |   |
| 16,00   | 600     | 550     | 1 | 22113      |   |
| 16,00   | 1000    | 950     | 1 | 36698      |   |
| 18,00   | 250     | 200     | 1 | 16919      |   |
| 18,00   | 450     | 400     | 1 | 16920      |   |
| 20,00   | 250     | 200     | 1 | 16921      |   |
| 20,00   | 450     | 400     | 1 | 16922      |   |
| 22,00   | 250     | 200     | 1 | 39687      |   |
| 22,00   | 450     | 400     | 1 | 16925      |   |
| 24,00   | 250     | 200     | 1 | 39688      |   |
| 24,00   | 450     | 400     | 1 | 16927      |   |
| 25,00   | 250     | 200     | 1 | 39689      |   |
| 25,00   | 450     | 400     | 1 | 16928      |   |
| 28,00   | 250     | 200     | 1 | 11523      |   |
| 28,00   | 450     | 400     | 1 | 11524      |   |
| 30,00   | 250     | 200     | 1 | 39690      |   |
| 30,00   | 450     | 400     | 1 | 11525      |   |
| 32,00   | 450     | 400     | 1 | 11526      |   |



Línea 1m  
**1891**

## BROCA-MARTILLO SDS PLUS 4Z+

4Z+ Cutter SDS plus Rotary Hammer Drill Bit

Foret percussion SDS plus 4Z+



|     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ø   | 5    | 6    | 7    | 8    | 10   | 5    | 6    | 7    | 8    | 10   | 12   | 14   | 6    | 8    | 10   | 12   | 14   | 8    | 16   |
| Pcs | L115 | L115 | L115 | L115 | L115 | L165 | L165 | L165 | L165 | L165 | L160 | L160 | L160 | L215 | L215 | L210 | L210 | L265 | L260 |
|     | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    |

Ref. 4995 - Nº Art. 71015: €



## Display 67



### BROCA-MARTILLO SDS PLUS 4Z+ (1)

4Z+ Cutter SDS plus Rotary Hammer Drill Bit (1)

Foret percussion SDS plus 4Z+ (1)

|     |                          |                         |                         |                          |                          |                          |                          |                         |
|-----|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------|
| Ø   | <b>24</b><br><b>L250</b> | <b>6</b><br><b>L315</b> | <b>8</b><br><b>L315</b> | <b>10</b><br><b>L315</b> | <b>12</b><br><b>L310</b> | <b>14</b><br><b>L310</b> | <b>16</b><br><b>L310</b> | <b>8</b><br><b>L465</b> |
| Pcs | 1                        | 2                       | 2                       | 1                        | 1                        | 1                        | 1                        | 1                       |
| Ø   | <b>5</b><br><b>L215</b>  | <b>6</b><br><b>L215</b> | <b>8</b><br><b>L215</b> | <b>10</b><br><b>L215</b> | <b>12</b><br><b>L210</b> | <b>14</b><br><b>L210</b> | <b>16</b><br><b>L210</b> | <b>6</b><br><b>L265</b> |
| Pcs | 3                        | 3                       | 3                       | 2                        | 2                        | 2                        | 2                        | 2                       |
| Ø   | <b>5</b><br><b>L115</b>  | <b>6</b><br><b>L115</b> | <b>7</b><br><b>L115</b> | <b>8</b><br><b>L115</b>  | <b>10</b><br><b>L115</b> | <b>5</b><br><b>L165</b>  | <b>6</b><br><b>L165</b>  | <b>6</b><br><b>L165</b> |
| Pcs | 4                        | 4                       | 4                       | 4                        | 3                        | 4                        | 3                        | 3                       |

Ref. 4995 - Nº Art. 75389: €

## Display 68



### BROCA-MARTILLO SDS PLUS 4Z+ (2)

4Z+ Cutter SDS plus Rotary Hammer Drill Bit (2)

Foret percussion SDS plus 4Z+ (2)

|     |                          |                          |                          |                          |                          |                          |                          |                          |
|-----|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Ø   | <b>10</b><br><b>L455</b> | <b>12</b><br><b>L450</b> | <b>14</b><br><b>L450</b> | <b>16</b><br><b>L450</b> | <b>18</b><br><b>L450</b> | <b>20</b><br><b>L450</b> | <b>22</b><br><b>L450</b> | <b>24</b><br><b>L450</b> |
| Pcs | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        |
| Ø   | <b>8</b><br><b>L265</b>  | <b>10</b><br><b>L265</b> | <b>12</b><br><b>L260</b> | <b>14</b><br><b>L260</b> | <b>16</b><br><b>L260</b> | <b>18</b><br><b>L250</b> | <b>20</b><br><b>L250</b> | <b>22</b><br><b>L250</b> |
| Pcs | 2                        | 2                        | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        |
| Ø   | <b>7</b><br><b>L165</b>  | <b>8</b><br><b>L165</b>  | <b>9</b><br><b>L165</b>  | <b>10</b><br><b>L165</b> | <b>12</b><br><b>L160</b> | <b>14</b><br><b>L160</b> | <b>15</b><br><b>L160</b> | <b>16</b><br><b>L160</b> |
| Pcs | 2                        | 2                        | 2                        | 2                        | 1                        | 1                        | 1                        | 1                        |

Ref. 4995 - Nº Art. 75391: €

## Display 61



### BROCA-MARTILLO SDS PLUS 4Z+ (BÁSICO)

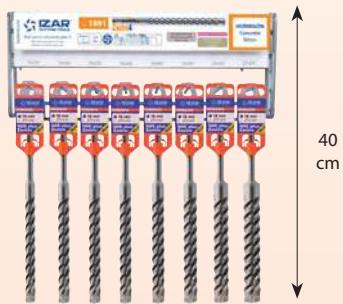
4Z+ Cutter SDS plus Rotary Hammer Drill Bit (Basic)

Foret percussion SDS plus 4Z+ (Essentiel)

|     |                          |                          |                          |                          |                          |                         |                          |                          |
|-----|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------|--------------------------|--------------------------|
| Ø   | <b>14</b><br><b>L210</b> | <b>6</b><br><b>L265</b>  | <b>8</b><br><b>L265</b>  | <b>10</b><br><b>L265</b> | <b>12</b><br><b>L260</b> | <b>6</b><br><b>L315</b> | <b>10</b><br><b>L315</b> | <b>12</b><br><b>L310</b> |
| Pcs | 2                        | 2                        | 2                        | 2                        | 2                        | 2                       | 2                        | 2                        |
| Ø   | <b>8</b><br><b>L165</b>  | <b>10</b><br><b>L165</b> | <b>12</b><br><b>L160</b> | <b>14</b><br><b>L160</b> | <b>6</b><br><b>L215</b>  | <b>8</b><br><b>L215</b> | <b>10</b><br><b>L215</b> | <b>12</b><br><b>L210</b> |
| Pcs | 2                        | 2                        | 2                        | 2                        | 2                        | 2                       | 2                        | 2                        |

Ref. 4995 - Nº Art. 29487: €

**Display  
31**



**Display  
32**



| Ø   | 16<br>L260 | 18<br>L250 | 20<br>L250 | 22<br>L250 | 24<br>L250 | 25<br>L250 | 28<br>L250 | 30<br>L250 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|
| Pcs | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |

Ref. 4995 - Nº Art. 22615:

€

| Ø   | 16<br>L450 | 18<br>L450 | 20<br>L450 | 22<br>L450 | 24<br>L450 | 25<br>L450 | 28<br>L450 | 30<br>L450 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|
| Pcs | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |

Ref. 4995 - Nº Art. 22617:

€

Ref. **1869**

**BROCA-MARTILLO SDS PLUS 4Z+**  
4Z+ Cutter SDS plus Rotary Hammer Drill Bit  
Foret percussion SDS plus 4Z+

| D<br>mm | L<br>mm | I<br>mm |    | Nº<br>Art. | €<br>1 ud. |
|---------|---------|---------|----|------------|------------|
| 5       | 115     | 50      | 10 | 56503      |            |
| 5       | 165     | 100     | 10 | 56506      |            |
| 6       | 115     | 50      | 10 | 56507      |            |
| 6       | 165     | 100     | 10 | 56509      |            |
| 6       | 215     | 150     | 10 | 56510      |            |
| 8       | 115     | 50      | 10 | 56967      |            |
| 8       | 165     | 100     | 10 | 56971      |            |

| D<br>mm | L<br>mm | I<br>mm |    | Nº<br>Art. | €<br>1 ud. |
|---------|---------|---------|----|------------|------------|
| 8       | 215     | 150     | 10 | 56972      |            |
| 10      | 115     | 50      | 10 | 56973      |            |
| 10      | 165     | 100     | 10 | 56974      |            |
| 10      | 215     | 150     | 10 | 56976      |            |
| 12      | 160     | 110     | 10 | 56978      |            |
| 12      | 210     | 160     | 10 | 56979      |            |



Ref. **1489**

7 Pcs

| Cont.<br>Ø                             | Nº<br>Art. | € |
|----------------------------------------|------------|---|
| 5-6-8 x 115<br>+ 6-8-10-12 x 165<br>mm | 39851      |   |

Ref. **1890**

## BROCA-MARTILLO SDS PLUS

SDS plus Rotary Hammer Drill Bit

Foret percussion SDS plus



SDS  
plus

Canal  
KVS  
Flute



Hormigón  
Concrete  
Béton

Hormigón Bloque  
Concrete Block  
Parpaing



Puntos de desbaste efecto "demolición".  
Producen micro-fisuras en el material.

"Demolition" effect power breakers.  
Produce micro cracks in the material.

Points d'ébauche effet "démolition".  
Produit des micro-fissures dans le materiel.



Punta centrado inmediato.  
Previene que resbale en superficies lisas.

Inmediate centering tip.  
Prevent skidding on smooth surfaces.

Pointe Autocentrage immédiat.  
Il prévient le glissement sur Surfaces lisses.



Chaflanes de acero corrugado más extenso (+35%).  
Previenen daños laterales en la punta.

Enlarged rebar chamfers (+35%).  
Prevent side tip damage.

Chanfreins aciers contractés plus étendus (+35%).  
Il prévient des dommages aux côtés de la pointe.

| D<br>mm | L<br>mm | I<br>mm | 📦 | Nº<br>Art. | € |
|---------|---------|---------|---|------------|---|
| 4,0     | 110     | 50      | 1 | 30245      |   |
| 4,0     | 160     | 100     | 1 | 43405      |   |
| 5,0     | 110     | 50      | 1 | 30246      |   |
| 5,0     | 160     | 100     | 1 | 30247      |   |
| 5,0     | 210     | 150     | 1 | 42770      |   |
| 5,0     | 260     | 200     | 1 | 70631      |   |
| 5,0     | 310     | 250     | 1 | 69445      |   |
| 5,0     | 360     | 300     | 1 | 70633      |   |
| 5,0     | 460     | 400     | 1 | 70634      |   |
| 5,5     | 110     | 50      | 1 | 23976      |   |
| 5,5     | 160     | 100     | 1 | 23977      |   |
| 5,5     | 210     | 150     | 1 | 70636      |   |
| 5,5     | 260     | 200     | 1 | 69446      |   |
| 5,5     | 310     | 250     | 1 | 70637      |   |
| 6,0     | 110     | 50      | 1 | 30248      |   |
| 6,0     | 160     | 100     | 1 | 18538      |   |
| 6,0     | 210     | 150     | 1 | 30249      |   |
| 6,0     | 260     | 200     | 1 | 30251      |   |
| 6,0     | 310     | 250     | 1 | 70639      |   |
| 6,0     | 460     | 400     | 1 | 69448      |   |
| 6,5     | 110     | 50      | 1 | 23978      |   |
| 6,5     | 160     | 100     | 1 | 23979      |   |
| 6,5     | 260     | 200     | 1 | 59957      |   |
| 7,0     | 110     | 50      | 1 | 30252      |   |
| 7,0     | 160     | 100     | 1 | 30253      |   |
| 7,0     | 210     | 150     | 1 | 68614      |   |
| 7,0     | 250     | 200     | 1 | 19592      |   |
| 8,0     | 110     | 50      | 1 | 30254      |   |
| 8,0     | 160     | 100     | 1 | 18540      |   |
| 8,0     | 210     | 150     | 1 | 30255      |   |
| 8,0     | 260     | 200     | 1 | 30256      |   |
| 8,0     | 460     | 400     | 1 | 30257      |   |
| 8,0     | 1000    | 950     | 1 | 70030      |   |

| D<br>mm | L<br>mm | I<br>mm | 📦 | Nº<br>Art. | € |
|---------|---------|---------|---|------------|---|
| 9,0     | 160     | 100     | 1 | 11518      |   |
| 9,0     | 210     | 150     | 1 | 11519      |   |
| 10,0    | 110     | 50      | 1 | 30261      |   |
| 10,0    | 160     | 100     | 1 | 30262      |   |
| 10,0    | 260     | 200     | 1 | 30263      |   |
| 10,0    | 310     | 250     | 1 | 30264      |   |
| 10,0    | 450     | 400     | 1 | 30266      |   |
| 10,0    | 600     | 550     | 1 | 30267      |   |
| 10,0    | 800     | 740     | 1 | 70640      |   |
| 10,0    | 1000    | 950     | 1 | 69911      |   |
| 11,0    | 160     | 100     | 1 | 11520      |   |
| 11,0    | 210     | 150     | 1 | 25600      |   |
| 11,0    | 260     | 200     | 1 | 11521      |   |
| 12,0    | 160     | 100     | 1 | 30270      |   |
| 12,0    | 210     | 150     | 1 | 30271      |   |
| 12,0    | 260     | 200     | 1 | 30273      |   |
| 12,0    | 310     | 250     | 1 | 42771      |   |
| 12,0    | 450     | 400     | 1 | 30414      |   |
| 12,0    | 600     | 550     | 1 | 30275      |   |
| 12,0    | 800     | 750     | 1 | 69916      |   |
| 12,0    | 1000    | 950     | 1 | 30269      |   |
| 13,0    | 160     | 100     | 1 | 30276      |   |
| 13,0    | 210     | 150     | 1 | 74789      |   |
| 13,0    | 310     | 250     | 1 | 30278      |   |
| 13,0    | 450     | 400     | 1 | 55407      |   |
| 14,0    | 160     | 100     | 1 | 30280      |   |
| 14,0    | 210     | 150     | 1 | 30281      |   |
| 14,0    | 260     | 200     | 1 | 42772      |   |
| 14,0    | 310     | 250     | 1 | 30283      |   |
| 14,0    | 450     | 400     | 1 | 30284      |   |
| 14,0    | 600     | 550     | 1 | 30285      |   |
| 14,0    | 1000    | 950     | 1 | 30279      |   |

| D<br>mm | L<br>mm | I<br>mm | 📦 | Nº<br>Art. | € |
|---------|---------|---------|---|------------|---|
| 15,0    | 160     | 100     | 1 | 30286      |   |
| 15,0    | 210     | 150     | 1 | 69917      |   |
| 15,0    | 260     | 200     | 1 | 42773      |   |
| 15,0    | 450     | 400     | 1 | 70642      |   |
| 16,0    | 160     | 100     | 1 | 30291      |   |
| 16,0    | 210     | 150     | 1 | 30292      |   |
| 16,0    | 260     | 200     | 1 | 42774      |   |
| 16,0    | 310     | 250     | 1 | 30294      |   |
| 16,0    | 450     | 400     | 1 | 30295      |   |
| 16,0    | 600     | 550     | 1 | 30296      |   |
| 16,0    | 800     | 750     | 1 | 30298      |   |
| 16,0    | 1000    | 950     | 1 | 30290      |   |
| 18,0    | 200     | 150     | 1 | 30300      |   |
| 18,0    | 300     | 250     | 1 | 30413      |   |
| 18,0    | 450     | 400     | 1 | 30303      |   |
| 18,0    | 1000    | 950     | 1 | 30299      |   |
| 20,0    | 200     | 150     | 1 | 30306      |   |
| 20,0    | 300     | 250     | 1 | 30309      |   |
| 20,0    | 450     | 400     | 1 | 30311      |   |
| 20,0    | 600     | 550     | 1 | 30312      |   |
| 20,0    | 1000    | 950     | 1 | 30305      |   |
| 22,0    | 250     | 200     | 1 | 30314      |   |
| 22,0    | 450     | 400     | 1 | 30317      |   |
| 22,0    | 600     | 550     | 1 | 23980      |   |
| 22,0    | 1000    | 950     | 1 | 23986      |   |
| 24,0    | 250     | 200     | 1 | 30319      |   |
| 24,0    | 450     | 400     | 1 | 30322      |   |
| 25,0    | 250     | 200     | 1 | 30324      |   |
| 25,0    | 450     | 400     | 1 | 30327      |   |
| 25,0    | 1000    | 950     | 1 | 23987      |   |
| 26,0    | 250     | 200     | 1 | 11522      |   |
| 26,0    | 450     | 400     | 1 | 30330      |   |

Línea 1m  
**1890**

## BROCA-MARTILLO SDS PLUS

SDS plus Rotary Hammer Drill Bit  
Foret percussion SDS plus



| Ø   | 5 | 6 | 7 | 8 | 10 | 5 | 6 | 7 | 8 | 10 | 12 | 14 | 6 | 8 | 10 | 12 | 14 | 8 | 16 |
|-----|---|---|---|---|----|---|---|---|---|----|----|----|---|---|----|----|----|---|----|
| Pcs | 5 | 5 | 3 | 5 | 3  | 5 | 5 | 3 | 3 | 3  | 3  | 3  | 3 | 3 | 3  | 3  | 3  | 2 | 2  |

Ref. 4995 - Nº Art. 71017: €



Clip Euro Hanger ref. M890 pag. 374

Display  
**01**

## BROCA-MARTILLO SDS PLUS 1

SDS plus Rotary Hammer Drill Bit 1  
Foret percussion SDS plus 1



|     |                   |                   |                   |                   |                   |                   |                   |                   |
|-----|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Ø   | <b>18</b><br>L300 | <b>20</b><br>L300 | <b>22</b><br>L250 | <b>24</b><br>L250 | <b>25</b><br>L250 | <b>8</b><br>L460  | <b>10</b><br>L450 | <b>12</b><br>L450 |
| Pcs | 1                 | 1                 | 1                 | 1                 | 1                 | 2                 | 2                 | 2                 |
| Ø   | <b>6</b><br>L210  | <b>8</b><br>L210  | <b>10</b><br>L210 | <b>12</b><br>L210 | <b>14</b><br>L210 | <b>16</b><br>L210 | <b>18</b><br>L200 | <b>20</b><br>L200 |
| Pcs | 3                 | 3                 | 3                 | 3                 | 3                 | 1                 | 1                 | 1                 |
| Ø   | <b>4</b><br>L110  | <b>5</b><br>L110  | <b>6</b><br>L110  | <b>7</b><br>L110  | <b>8</b><br>L110  | <b>10</b><br>L110 | <b>5</b><br>L160  | <b>6</b><br>L160  |
| Pcs | 5                 | 5                 | 5                 | 3                 | 5                 | 3                 | 5                 | 3                 |

Ref. 4995 - Nº Art. 22182: €

Display  
**02**

## BROCA-MARTILLO SDS PLUS 2

SDS plus Rotary Hammer Drill Bit 2  
Foret percussion SDS plus 2



|     |                   |                   |                   |                   |                   |                   |                   |                   |
|-----|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Ø   | <b>14</b><br>L450 | <b>16</b><br>L450 | <b>18</b><br>L450 | <b>20</b><br>L450 | <b>22</b><br>L450 | <b>24</b><br>L450 | <b>25</b><br>L450 | <b>26</b><br>L450 |
| Pcs | 3                 | 1                 | 1                 | 1                 | 1                 | 1                 | 1                 | 1                 |
| Ø   | <b>6</b><br>L260  | <b>8</b><br>L260  | <b>10</b><br>L260 | <b>12</b><br>L260 | <b>10</b><br>L310 | <b>13</b><br>L310 | <b>14</b><br>L310 | <b>16</b><br>L310 |
| Pcs | 3                 | 3                 | 3                 | 3                 | 3                 | 2                 | 2                 | 2                 |
| Ø   | <b>9</b><br>L160  | <b>10</b><br>L160 | <b>11</b><br>L160 | <b>12</b><br>L160 | <b>13</b><br>L160 | <b>14</b><br>L160 | <b>15</b><br>L160 | <b>16</b><br>L160 |
| Pcs | 2                 | 2                 | 2                 | 3                 | 3                 | 3                 | 2                 | 2                 |

Ref. 4995 - Nº Art. 22183: €

## Display 45

### BROCA-MARTILLO SDS PLUS BÁSICO

Basic SDS plus Rotary Hammer Drill Bit  
Foret percussion SDS plus Essentiel



|     |           |           |           |          |           |           |           |           |
|-----|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|
| Ø   | <b>12</b> | <b>14</b> | <b>16</b> | <b>8</b> | <b>10</b> | <b>12</b> | <b>14</b> | <b>16</b> |
| Pcs | 3         | 2         | 2         | 1        | 1         | 2         | 1         | 1         |
| Ø   | <b>14</b> | <b>16</b> | <b>6</b>  | <b>8</b> | <b>10</b> | <b>12</b> | <b>14</b> | <b>10</b> |
| Pcs | 3         | 2         | 5         | 3        | 3         | 3         | 3         | 3         |
| Ø   | <b>4</b>  | <b>5</b>  | <b>6</b>  | <b>8</b> | <b>10</b> | <b>5</b>  | <b>6</b>  | <b>12</b> |
| Pcs | 5         | 5         | 5         | 5        | 5         | 5         | 5         | 3         |

Ref. 4995 - Nº Art. 55614: €

## Display 25



|     |          |          |          |          |          |           |          |          |          |          |
|-----|----------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|
| Ø   | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> | <b>10</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| Pcs | 5        | 5        | 5        | 3        | 5        | 3         | 5        | 5        | 3        | 3        |

Ref. 4995 - Nº Art. 22278: €

## Display 26



|     |          |           |           |           |           |           |           |           |
|-----|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Ø   | <b>9</b> | <b>10</b> | <b>11</b> | <b>12</b> | <b>13</b> | <b>14</b> | <b>15</b> | <b>16</b> |
| Pcs | 2        | 2         | 2         | 3         | 3         | 3         | 2         | 2         |

Ref. 4995 - Nº Art. 22604: €

## Display 27



|     |        |        |         |         |         |         |         |         |
|-----|--------|--------|---------|---------|---------|---------|---------|---------|
| Ø   | 6 L210 | 8 L210 | 10 L210 | 12 L210 | 14 L210 | 16 L210 | 18 L200 | 20 L200 |
| Pcs | 3      | 3      | 3       | 3       | 3       | 1       | 1       | 1       |

Ref. 4995 - Nº Art. 22605: €

## Display 28



|     |        |        |         |         |         |         |         |         |
|-----|--------|--------|---------|---------|---------|---------|---------|---------|
| Ø   | 6 L260 | 8 L260 | 10 L260 | 12 L260 | 10 L310 | 13 L310 | 14 L310 | 16 L310 |
| Pcs | 3      | 3      | 3       | 3       | 3       | 2       | 2       | 2       |

Ref. 4995 - Nº Art. 22609: €

## Display 29



|     |         |         |         |         |         |        |         |         |
|-----|---------|---------|---------|---------|---------|--------|---------|---------|
| Ø   | 18 L300 | 20 L300 | 22 L250 | 24 L250 | 25 L250 | 8 L460 | 10 L450 | 12 L450 |
| Pcs | 1       | 1       | 1       | 1       | 1       | 2      | 2       | 2       |

Ref. 4995 - Nº Art. 22612: €

## Display 30



|     |         |         |         |         |         |         |         |         |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|
| Ø   | 14 L450 | 16 L450 | 18 L450 | 20 L450 | 22 L450 | 24 L450 | 25 L450 | 26 L450 |
| Pcs | 3       | 1       | 1       | 1       | 1       | 1       | 1       | 1       |

Ref. 4995 - Nº Art. 22614: €

Ref. **1899**

## BROCA-MARTILLO SDS PLUS

SDS plus Rotary Hammer Drill Bit

Foret percussion SDS plus



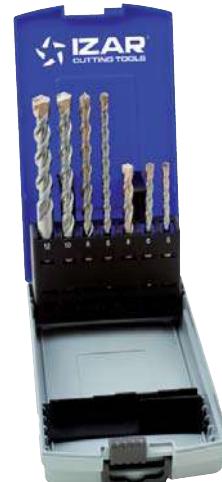
| D<br>mm | L<br>mm | I<br>mm |    | Nº<br>Art. | €<br>1 ud. | D<br>mm | L<br>mm | I<br>mm |    | Nº<br>Art. | €<br>1 ud. |
|---------|---------|---------|----|------------|------------|---------|---------|---------|----|------------|------------|
| 5       | 110     | 50      | 10 | 18706      |            | 10      | 110     | 50      | 10 | 18719      |            |
| 5       | 160     | 100     | 10 | 18707      |            | 10      | 160     | 100     | 10 | 18721      |            |
| 6       | 110     | 50      | 10 | 18710      |            | 10      | 210     | 150     | 10 | 18722      |            |
| 6       | 160     | 100     | 10 | 18712      |            | 12      | 160     | 100     | 10 | 18723      |            |
| 6       | 210     | 150     | 10 | 18714      |            | 12      | 210     | 150     | 10 | 18724      |            |
| 7       | 160     | 100     | 10 | 74777      |            | 13      | 160     | 100     | 10 | 74778      |            |
| 8       | 110     | 50      | 10 | 18715      |            | 13      | 210     | 150     | 10 | 74780      |            |
| 8       | 160     | 100     | 10 | 18716      |            | 14      | 160     | 100     | 10 | 74782      |            |
| 8       | 210     | 150     | 10 | 18717      |            | 14      | 210     | 150     | 10 | 74783      |            |



Ref. **1494**

4 Pcs

| Cont.<br>Ø   | Nº<br>Art. | € |
|--------------|------------|---|
| 5x110        |            |   |
| 6x110        |            |   |
| 8x160        | 11528      |   |
| 10x160<br>mm |            |   |



Ref. **1497**

7 Pcs

| Cont.<br>Ø                                   | Nº<br>Art. | € |
|----------------------------------------------|------------|---|
| 5-6-8<br>x 110<br>+<br>6-8-10-12 x 160<br>mm | 11529      |   |

Línea 33 cm  
**14S2**

## SETS BROCAS HORMIGÓN, PARED PRO, PARED

Concrete, Masonry Sets  
Jeux béton, maçonnerie



26  
cm

|      |                                              |                                               |                                               |
|------|----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Ref  | Hormigón<br>Concrete<br>Béton<br><b>1494</b> | Pared Pro<br>Concrete<br>Béton<br><b>1487</b> | Pared<br>Masonry<br>Maçonnerie<br><b>1488</b> |
| Diam | 5/6x110 + 8/10x160 mm                        | 3-4-5-6-7-8-9-10 mm                           | 3-4-5-6-7-8-9-10 mm                           |
| Pcs. | 3                                            | 5                                             | 5                                             |

Ref. 4995 - Nº Art. 72194: €

Ref. **1695**

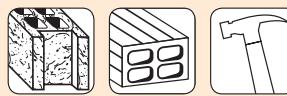


## CORONA LIGERA PARED PROFESIONAL

Professional Concrete Light Hollow Core Bit

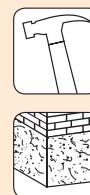
Trépan béton professionnel

**Diente MD**  
Carbide Tipped  
Dent Carbure



SDS  
plus

**Rosca Interna M-16**  
M-16 Internal Thread  
Filetage Intérieur M-16



**Hormigón**  
Concrete  
Béton

**Hormigón Bloque**  
Concrete Block  
Parpaing

**Ladrillo**  
Brick  
Brique



- Más robusta
- Nueva geometría de canales mejorada

- Now Stronger
- New improved channel geometry

- Plus robuste
- Nouvelle géométrie améliorée des goujures

| D<br>mm | L<br>mm | Nº<br>Art. | € |
|---------|---------|------------|---|
| 30      | 50      | 13898      |   |
| 35      | 50      | 13899      |   |
| 40      | 50      | 13900      |   |
| 45      | 50      | 13901      |   |

| D<br>mm | L<br>mm | Nº<br>Art. | € |
|---------|---------|------------|---|
| 50      | 50      | 13902      |   |
| 65      | 50      | 13904      |   |
| 68      | 50      | 19012      |   |
| 80      | 50      | 19014      |   |

| D<br>mm | L<br>mm | Nº<br>Art. | € |
|---------|---------|------------|---|
| 82      | 50      | 19032      |   |
| 90      | 50      | 25207      |   |
| 100     | 50      | 25208      |   |

Ref. **1696**

### Broca Centrar

Center Drill / Foret à Centrer



| Broca<br>Drill Bit Foret<br>Mod. | D<br>mm | L<br>mm | Nº<br>Art. | € |
|----------------------------------|---------|---------|------------|---|
| 1                                | 8       | 120     | 18857      |   |

### Husillo SDS plus

SDS plus Spindle / Arbre SDS plus



| SDS plus<br>Mod. | L<br>mm | Nº<br>Art. | € |
|------------------|---------|------------|---|
| 3                | 105     | 18858      |   |
| 4                | 220     | 19021      |   |
| 5                | 370     | 19023      |   |

### Husillo Hex

Hex Spindle / Arbre Hex



| HEX<br>Mod. | L<br>mm | Nº<br>Art. | € |
|-------------|---------|------------|---|
| 6           | 100     | 19018      |   |
| 7           | 220     | 19026      |   |
| 8           | 370     | 19030      |   |

**Display  
05**

## CORONA LIGERA PARED PROFESIONAL

Professional Concrete Light Hollow Core Bit

Trépan béton professionnel



| Ø   | SDS plus<br>L110 | SDS plus<br>L110 | SDS plus<br>L220 | SDS plus<br>L350         |
|-----|------------------|------------------|------------------|--------------------------|
| Pcs | 1                | 1                | 2                | 1                        |
| Ø   | 40               | 50               | 50               | Broca<br>Drill Bit Foret |
| Pcs | 1                | 1                | 1                | 1                        |
| Ø   | 65               | 68               | 80               | 82                       |
| Pcs | 1                | 1                | 1                | 1                        |

Ref. 4995 - Nº Art. 22418: €

# HERRAMIENTAS SDS MAX

SDS max Tools

Outils SDS max

Ref. **1892**

## BROCA-MARTILLO SDS MAX 4 PUNTAS

4-Cutter SDS max Rotary Hammer Drill Bit

Foret percussion SDS max 4 pointes



SDS  
max



**IZAR**  
CUTTING TOOLS



Marca desgaste  
Wear Marking  
Témoin d'usure

**Hormigón Reforzado**  
Reinforced Concrete  
Béton armé

**Hormigón**  
Concrete  
Béton

**Hormigón Bloque**  
Concrete Block  
Parpaing



**2 puntas / 2-Cutter / 2-Taillants:**

| D<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | € |
|---------|---------|---------|------------|---|
| 12      | 340     | 200     | 30332      |   |
| 12      | 540     | 400     | 30333      |   |
| 12      | 690     | 550     | 30334      |   |
| 14      | 340     | 200     | 30335      |   |
| 14      | 540     | 400     | 30336      |   |
| 15      | 340     | 200     | 30337      |   |
| 15      | 540     | 400     | 30338      |   |

**4 puntas 4-Cutter / 4-Taillants:**

| D<br>mm                                | L<br>mm | I<br>mm | Nº<br>Art. | € |
|----------------------------------------|---------|---------|------------|---|
| 16                                     | 340     | 200     | 30339      |   |
| 16                                     | 540     | 400     | 30340      |   |
| 16                                     | 940     | 800     | 60065      |   |
| 16                                     | 1320    | 1180    | 60066      |   |
| 18                                     | 340     | 200     | 30341      |   |
| 18                                     | 540     | 400     | 30342      |   |
| 18                                     | 940     | 800     | 60068      |   |
| 18                                     | 1320    | 1180    | 60070      |   |
| 20                                     | 320     | 200     | 30343      |   |
| 20                                     | 520     | 400     | 30344      |   |
| 20                                     | 920     | 800     | 30345      |   |
| 20                                     | 1320    | 1200    | 60072      |   |
| 22                                     | 320     | 200     | 30346      |   |
| 22                                     | 520     | 400     | 30347      |   |
| 22                                     | 920     | 800     | 30348      |   |
| 22                                     | 1320    | 1200    | 60075      |   |
| 24                                     | 320     | 200     | 30349      |   |
| 24                                     | 520     | 400     | 30350      |   |
| 25                                     | 320     | 200     | 30351      |   |
| 25                                     | 520     | 400     | 30352      |   |
| 25                                     | 920     | 800     | 30353      |   |
| 25                                     | 1320    | 1200    | 60077      |   |
| 26                                     | 520     | 400     | 30354      |   |
| 28                                     | 370     | 250     | 30355      |   |
| 28                                     | 570     | 450     | 30356      |   |
| 28                                     | 670     | 550     | 30357      |   |
| <span style="color:red;">(New!)</span> |         |         |            |   |
| 28                                     | 920     | 800     | 38103      |   |
| 30                                     | 370     | 250     | 60088      |   |
| 30                                     | 570     | 450     | 60089      |   |
| 30                                     | 670     | 550     | 30365      |   |
| 32                                     | 370     | 250     | 30363      |   |
| 32                                     | 570     | 450     | 30364      |   |
| 32                                     | 920     | 800     | 30366      |   |
| 32                                     | 1320    | 1200    | 60085      |   |
| 35                                     | 370     | 250     | 30367      |   |
| 35                                     | 570     | 450     | 30368      |   |
| 35                                     | 670     | 550     | 30369      |   |
| 37                                     | 370     | 250     | 30370      |   |
| 37                                     | 570     | 450     | 23981      |   |
| 37                                     | 920     | 800     | 52952      |   |
| 38                                     | 370     | 250     | 52954      |   |
| 38                                     | 570     | 450     |            |   |
| 38                                     | 720     | 600     |            |   |
| 38                                     | 920     | 800     |            |   |
| 40                                     | 370     | 250     |            |   |
| 40                                     | 570     | 450     |            |   |
| 40                                     | 920     | 800     |            |   |
| 40                                     | 1320    | 1200    |            |   |
| 45                                     | 570     | 450     |            |   |
| 45                                     | 920     | 800     |            |   |
| 50                                     | 570     | 450     |            |   |
| 52                                     | 570     | 450     |            |   |

Línea 1m  
**1892**

## BROCA-MARTILLO SDS MAX 4 PUNTAS

4-Cutter SDS max Rotary Hammer Drill Bit

Foret percussion SDS max 4 pointes

| Ø   | 16   | 16   | 18   | 18   | 20   | 20   | 22   | 22   | 25   | 25   | 28   | 28   | 30   | 30   | 32   | 35   |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Pcs | L340 | L540 | L340 | L540 | L320 | L520 | L320 | L520 | L320 | L520 | L370 | L570 | L370 | L570 | L570 | L570 |
|     | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |

Ref. 4995 - Nº Art. 72141: €

69 cm ↑



220

Comprometidos con la fabricación y el empleo [izartool.com](http://izartool.com) Engagés dans la fabrication et l'emploi

**IZAR**  
CUTTING TOOLS

## Display 03

### BROCA-MARTILLO SDS MAX 4 PUNTAS

4-Cutter SDS max Rotary Hammer Drill Bit  
Foret percussion SDS max 4 pointes



|     |                          |                          |                          |                          |                          |                          |                          |                          |                          |
|-----|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| ∅   | <b>16</b><br><b>L540</b> | <b>18</b><br><b>L540</b> | <b>20</b><br><b>L520</b> | <b>22</b><br><b>L520</b> | <b>25</b><br><b>L520</b> | <b>28</b><br><b>L570</b> | <b>30</b><br><b>L570</b> | <b>32</b><br><b>L570</b> | <b>35</b><br><b>L570</b> |
| Pcs | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        |

|     |                          |                          |                          |                          |                          |                          |                          |                          |                          |
|-----|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| ∅   | <b>12</b><br><b>L340</b> | <b>14</b><br><b>L340</b> | <b>16</b><br><b>L340</b> | <b>18</b><br><b>L340</b> | <b>20</b><br><b>L320</b> | <b>22</b><br><b>L320</b> | <b>25</b><br><b>L320</b> | <b>28</b><br><b>L370</b> | <b>30</b><br><b>L370</b> |
| Pcs | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        |

Ref. 4995 - Nº Art. 22315: €



## Display 33

## Display 34



49  
cm



68  
cm

|     |                          |                          |                          |                          |                          |                          |                          |                          |                          |
|-----|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| ∅   | <b>12</b><br><b>L340</b> | <b>14</b><br><b>L340</b> | <b>16</b><br><b>L340</b> | <b>18</b><br><b>L340</b> | <b>20</b><br><b>L320</b> | <b>22</b><br><b>L320</b> | <b>25</b><br><b>L320</b> | <b>28</b><br><b>L370</b> | <b>30</b><br><b>L370</b> |
| Pcs | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        |

Ref. 4995 - Nº Art. 22618: €

|     |                          |                          |                          |                          |                          |                          |                          |                          |                          |
|-----|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| ∅   | <b>16</b><br><b>L540</b> | <b>18</b><br><b>L540</b> | <b>20</b><br><b>L520</b> | <b>22</b><br><b>L520</b> | <b>25</b><br><b>L520</b> | <b>28</b><br><b>L570</b> | <b>30</b><br><b>L570</b> | <b>32</b><br><b>L570</b> | <b>35</b><br><b>L570</b> |
| Pcs | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        |

Ref. 4995 - Nº Art. 22619: €

Ref. 1894

## CORONA SDS MAX

SDS max Core Cutter  
Foret trépan SDS max

¡NUEVO MODELO MEJORADO!

New improved model!

Nouveau modèle amélioré



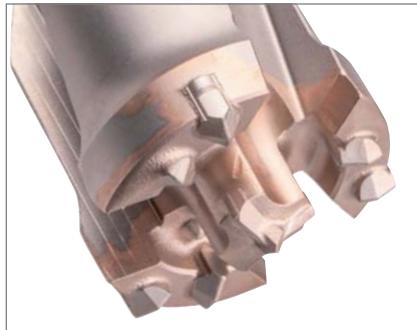
SDS  
max



**Nuevo Diseño Especial Hormigón Reforzado**  
New Special Design for Reinforced Concrete  
Nouveau dessin pour béton armé

Hormigón  
Concrete  
Béton

Hormigón Bloque  
Concrete Block  
Parpaing



- Taladrado Exacto Auto-Centrante
- Dientes MD ► Rápida Penetración
- Gran Volumen Canales ► Mayor Evacuación del Polvo

- Auto-Centering Accurate Drilling
- Carbide Teeth ► Fast Penetration
- High Volume Flutes ► Better Dust-Removal

- Perçage autoentreur exact
- Dents carbure ► Pénétration plus rapide
- Gran volume des goujures ► Meilleur évacuation copeaux

- Resistente al calentamiento.
- Apto para trabajo intensivo

- Heat-resistant.
- Intensive work.

- Ressistance au rechauffement
- Idéal pour travaux intensifs.

| D<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | € |
|---------|---------|---------|------------|---|
| 45      | 550     | 450     | 16864      |   |
| 45      | 990     | 890     | 16865      |   |
| 55      | 550     | 450     | 16868      |   |
| 55      | 990     | 890     | 16869      |   |
| 65      | 550     | 450     | 16870      |   |
| 65      | 990     | 890     | 16871      |   |
| 80      | 550     | 450     | 16873      |   |
| 80      | 990     | 890     | 16874      |   |

Ref. **1697**

## CORONA PERFORADORA TALADRO PERCUTOR

Tapered Hollow Hammer Core Bit

Trépan pour perceuses percussion lourds



Diente MD  
Carbide Tipped  
Dent Carbure



SDS  
max

**Conicidad 1:8**  
1:8 Tapered  
Conicité 1:8

**Hormigón**  
Concrete  
Béton



| D<br>mm | L<br>mm | Nº<br>Art. | € |
|---------|---------|------------|---|
| 40      | 100     | 19035      |   |
| 50      | 100     | 19041      |   |
| 65      | 100     | 19045      |   |
| 80      | 100     | 19047      |   |
| 90      | 100     | 19048      |   |
| 100     | 100     | 19050      |   |
| 125     | 100     | 19051      |   |

Ref. **1698**

**Broca Centrar**  
Center Drill  
Foret à centrer



00001

| Broca<br>Drill Bit Foret<br>Mod. | D<br>mm | L<br>mm | Nº<br>Art. | € |
|----------------------------------|---------|---------|------------|---|
| 1                                | 11      | 120     | 19054      |   |

**Cuña Expulsora Ref. 1104**  
Drill Drift  
Chasse



00002

| CM<br>min. | CM<br>max. | L<br>mm | SDS max<br>Mod. | Nº<br>Art. | € |
|------------|------------|---------|-----------------|------------|---|
| 1          | 2          | 116     | 1               | 16436      |   |

**Husillo SDS max**  
SDS max Spindle  
Arbre SDS max



00003-4

| SDS max<br>Mod. | L<br>mm | Nº<br>Art. | € |
|-----------------|---------|------------|---|
| 3               | 180     | 19057      |   |
| 4               | 450     | 19058      |   |

**Display  
06**

## CORONA PERFORADORA TALADRO PERCUTOR

Tapered Hollow Hammer Core Bit

Trépan pour perceuses percussion lourds



| Ø   | Llave<br>Key / Clé | Broca<br>Drill Bit / Foret | Broca<br>Drill Bit / Foret | SDS max<br>L180 | SDS max<br>L180 | SDS max<br>L450 |
|-----|--------------------|----------------------------|----------------------------|-----------------|-----------------|-----------------|
| Pcs | 3                  | 2                          | 1                          | 2               | 1               | 1               |

| Ø   | 40 | 50 | 65 | 80 |
|-----|----|----|----|----|
| Pcs | 1  | 1  | 1  | 1  |

Ref. 4995 - Nº Art. 22463: €

# ADAPTADOR iCONNECT

iConnect Adaptor  
Adaptateur iConnect

## Descripción

iConnect permite taladrar agujeros extremadamente profundos con una broca-martillo corta, de una manera mucho más económica gracias a su sistema de adaptadores y alargadores. Estos alargadores permiten incluso la combinación de un taladro SDS plus con una broca SDS max.

## Ventajas

- 2 clicks y ya tiene la broca de la longitud que necesita
- Las dos entradas SDS max del adaptador consiguen una conexión rápida y segura entre la broca y los diferentes alargadores
- Con el adaptador iConnect no hay pérdida de energía, algo habitual en otros sistemas tradicionales de adaptadores
- No hay posibilidad de rotura por causa de una excesiva presión en el área de unión
- Reducción al mínimo de las herramientas necesarias para el taladrado profesional

## Uso

Hormigón, pared y piedra natural

## Description

iConnect allows drilling extremely deep holes with a short hammer drill bit, in very inexpensive way thanks to this system of adaptors and extensions. These extensions allow even the combination of a SDS plus drilling machine with a SDS max rotary hammer drill bit.

## Advantages

- 2 clicks and the tools is the required length
- The adaptor's two SDS max chucks provide a quick and safe connection between the drilling tool and the extension shanks
- With the iConnect adaptor there is no energy loss, normally encountered in traditional adapter systems
- Breakages because of excessive strain in the coupling area are not possible
- Professional drilling tool requirements reduced to a minimum

## Description

iConnect permet percer des trous très profonds avec un foret percussion court, d'une façon beaucoup plus économique grâce à son système d'adaptateurs et rallonges. Ces rallonges permettent aussi une combiner un perçage SDS PLUS avec un foret SDS Max.

## Avantages

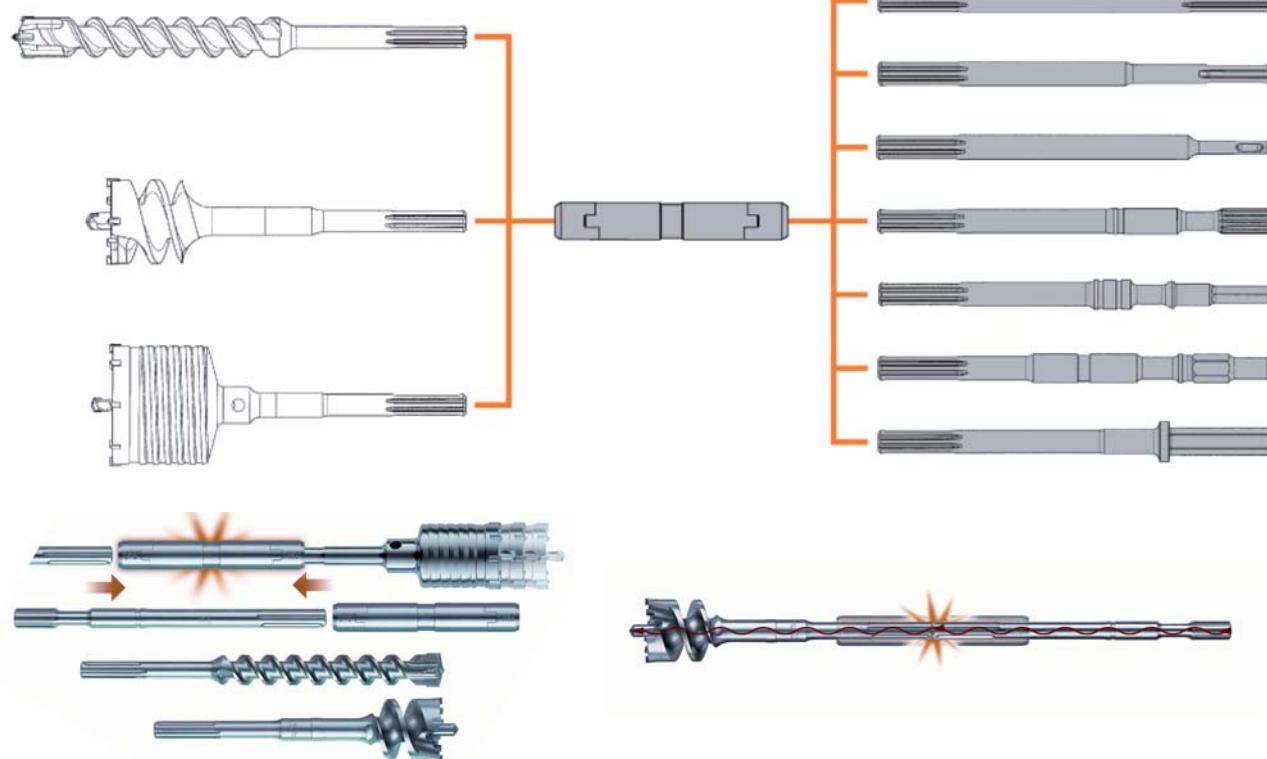
- En 2 clicks vous obtenez la longueur du foret que vous avez besoin.
- Les 2 entrées SDS MAX de l'adaptateur vous permettent une connexion rapide entre le foret et les différents rallonges.
- Avec l'adaptateur iConnect pas de perte d'énergie, comme dans d'autres systèmes.
- Pas de rupture à cause d'une haute pression dans la zone de la connexion d'union.
- Réduire au minimum les outils pour le perçage proffessionnel.

## Use

Concrete, masonry and natural stone

## Emploi

Béton Armé, Béton et Pierre.



Ref. **1875**

## ADAPTADOR SDS MAX

SDS max Adaptor  
Adaptateur SDS max



SDS  
max



Hormigón  
Concrete  
Béton

Hormigón Bloque  
Concrete Block  
Parpaing



| Adaptador<br>Mod. | L<br>mm | d<br>mm | Nº<br>Art. | € |
|-------------------|---------|---------|------------|---|
| 1                 | 190     | 30      | 56810      |   |



| Extensión<br>MAX-MAX<br>Mod. | L<br>mm | Nº<br>Art. | € |
|------------------------------|---------|------------|---|
| 0320-MAX                     | 320     | 56811      |   |
| 0750-MAX                     | 750     | 56812      |   |
| 1100-MAX                     | 1100    | 56813      |   |



| Extensión<br>MAX-PLUS | L<br>mm | Nº<br>Art. | € |
|-----------------------|---------|------------|---|
| 0320-PLUS             | 320     | 56814      |   |
| 0750-PLUS             | 750     | 56815      |   |



| Grasa<br>Grease / Graisse<br>Mod. | Nº<br>Art. | € |
|-----------------------------------|------------|---|
| 2                                 | 57504      |   |

# CINCELES

Chisels

Burins

Ref. **1870**

## CINCEL SDS PLUS

SDS plus Chisel  
Burin SDS plus



SDS  
plus

Hormigón Reforzado  
Reinforced Concrete  
Béton armé

Hormigón  
Concrete  
Béton



Puntero / Pointed / Ciseau

Plano / Flat / Plate

Ancho / Wide / Large

Hueco / Hollow / Gouge

Alas / Wing-Canal / Ailes

Azulejo / Tile / Carreau

Dentado / Slotting / Denté

Ancho / Wide / Large

Mod.

Tipo  
Type / Type

L  
mm

I  
mm

Nº  
Art.

€

00001-250

Puntero / Pointed /  
Ciseau

250 | 30372

00002-250

Plano / Flat / Plate

250 | 20 | 30373

00003-200038

Ancho / Wide / Large

200 | 38 | 30374

00004-240

Hueco / Hollow /  
Gouge

240 | 22 | 30375

00005-250

Alas / Wing-Canal /  
Ailes

250 | 22 | 54983

00009-200038

Azulejo  
Tile / Carreau

200 | 38 | 54985

00009-250060

250 | 60 | 54986

00010-200032TCT

Dentado / Slotting /  
Denté

200 | 32 | 54988

Reafilable  
Resharpenable  
Réaffûtable

00011-250040

Ancho / Wide / Large

250 | 40 | 82692

Ref. **1872**

## CINCEL SDS MAX

SDS max Chisel  
Burin SDS max



SDS  
max

**Hormigón Reforzado**  
Reinforced Concrete  
Béton armé

**Hormigón**  
Concrete  
Béton



Puntero / Pointed / Ciseau

Plano / Flat / Plate

Ancho / Wide / Large

Hueco / Hollow / Gouge

Alas / Wing-Canal / Ailes

Acanalador / Canal / Gouge-Brique

Azulejo / Tile / Carreau

Dentado / Slotting / Denté

Pala / Clay-Spade / Pelle

Asfalto / Asphalt / Asphalte

Abujardar / Bushing / Bouchardage

| Mod.                   | Tipo<br>Type / Type                        | L<br>mm | I<br>mm   | Nº<br>Art. | € |
|------------------------|--------------------------------------------|---------|-----------|------------|---|
| <b>00001-280</b>       | <b>Puntero</b><br>Pointed / Ciseau         | 280     |           | 54989      |   |
| <b>00001-400</b>       |                                            | 400     |           | 30376      |   |
| <b>00001-600</b>       |                                            | 600     |           | 23036      |   |
| <b>00002-280</b>       | <b>Plano</b><br>Flat / Plate               | 280     | 24        | 54990      |   |
| <b>00002-400</b>       |                                            | 400     | 24        | 30377      |   |
| <b>00002-600</b>       |                                            | 600     | 24        | 23037      |   |
| <b>00003-360050</b>    | <b>Ancho</b><br>Wide / Large               | 360     | 50        | 23038      |   |
| <b>00003-300080</b>    |                                            | 300     | 80        | 30378      |   |
| <b>00003-350115</b>    |                                            | 350     | 115       | 54991      |   |
| <b>00004-300</b>       | <b>Hueco</b><br>Hollow / Gouge             | 300     | 26        | 30379      |   |
| <b>00005-380035</b>    | <b>Alas</b><br>Wing-Canal / Ailes          | 380     | 35        | 18186      |   |
| <b>00008-300032</b>    | <b>Acanalador</b><br>Canal / Gouge-Brique  | 300     | 32        | 54993      |   |
| <b>00009-300050</b>    | <b>Azulejo</b><br>Tile / Carreau           | 300     | 50        | 54994      |   |
| <b>00009-300080</b>    |                                            | 300     | 80        | 54996      |   |
| <b>00010-280038TCT</b> | <b>Dentado</b><br>Slotting / Denté         | 280     | 38        | 54999      |   |
| <b>00011-400110</b>    | <b>Pala</b><br>Clay-Spade / Pelle          | 400     | 110       | 55000      |   |
| <b>00012-400090</b>    | <b>Asfalto</b><br>Asphalt / Asphalte       | 400     | 90        | 55003      |   |
| <b>00013-240045</b>    | <b>Abujardar</b><br>Bushing<br>Bouchardage | 240     | 45x<br>45 | 55004      |   |

## Línea 33 cm 1870



### CINCEL SDS PLUS

SDS plus Chisel

Burin SDS plus

| Ø   | Puntero<br>Pointed<br>Ciseau | Plano<br>Flat<br>Plate | Ancho<br>Wide<br>Large | Hueco<br>Hollow<br>Gouge |
|-----|------------------------------|------------------------|------------------------|--------------------------|
| Pcs | 2                            | 2                      | 2                      | 2                        |

Ref. 4995 - Nº Art. 71023:

€

## Display 04

### CINCELES SDS MAX / PLUS

SDS max / plus Chisels

Burins SDS max / plus

### SDS MAX Ref. 1872

| Ø   | Puntero<br>Pointed<br>Ciseau<br>L400 | Plano<br>Flat<br>Plate<br>L400 | Ancho<br>Wide<br>Large<br>50 | Ancho<br>Wide<br>Large<br>80 | Hueco<br>Hollow<br>Gouge | Alas<br>Wing-Canal<br>Ailes<br>L380 | Puntero<br>Pointed<br>Ciseau<br>L600 | Plano<br>Flat<br>Plate<br>L600 |
|-----|--------------------------------------|--------------------------------|------------------------------|------------------------------|--------------------------|-------------------------------------|--------------------------------------|--------------------------------|
| Pcs | 2                                    | 2                              | 2                            | 2                            | 2                        | 2                                   | 1                                    | 1                              |

## Display 35

Ref. 4995  
Nº Art. 22621  
€

### SDS PLUS Ref. 1870

| Ø   | Puntero<br>Pointed<br>Ciseau | Puntero<br>Pointed<br>Ciseau | Plano<br>Flat<br>Plate | Plano<br>Flat<br>Plate | Ancho<br>Wide<br>Large | Ancho<br>Wide<br>Large | Hueco<br>Hollow<br>Gouge | Hueco<br>Hollow<br>Gouge |
|-----|------------------------------|------------------------------|------------------------|------------------------|------------------------|------------------------|--------------------------|--------------------------|
| Pcs | 1                            | 1                            | 1                      | 1                      | 1                      | 1                      | 1                        | 1                        |

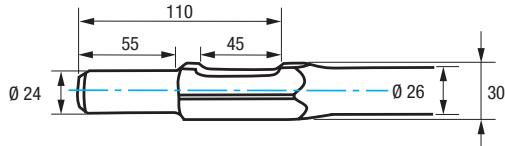
## Display 36

Ref. 4995  
Nº Art. 22623  
€



Ref. 4995 - Nº Art. 22289:

€

Ref. **1871****CINCEL HEXAGONAL 30 mm**HEX Shank Chisel  
Burin hexagonal**New!****Hormigón Reforzado**  
Reinforced Concrete  
Béton armé**Hormigón**  
Concrete  
Béton

| Mod. | Tipo<br>Type / Type | L<br>mm | I<br>mm | Nº<br>Art. | € |
|------|---------------------|---------|---------|------------|---|
|------|---------------------|---------|---------|------------|---|

**Puntero** / Pointed / Ciseau**00001-400****Puntero** / Pointed /  
Ciseau

400

70710

**Plano** / Flat / Plate**00002-400****Plano** / Flat / Plate

400

70712



# BROCAS MANGO CILÍNDRICO

Straight Shank Drill Bits

Forets queue cylindrique

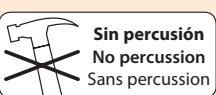
Ref. **1882**

**BROCA PORCELÁNICO**  
PORCELAIN Drill Bit  
Foret PORCELAINE

¡MODELO EXCLUSIVO!



Video



Sin percusión  
No percussion  
Sans percussion



H<sub>2</sub>O  
Refrigerar punta  
Point Cooling  
Refroidir la pointe



RPM  
1000  
300



Porcelánico  
Porcelain  
Porcelaine

Teja, piedra, pizarra, cemento, terrazo, mármol, terracota, calizas  
Tile, quarry, slate, cement, terrazzo, marble, terracotta, limestones  
Tuile, pierre, ardoise, ciment, terrazzo, marbre, terre cuite, calcaires



| D<br>mm | L<br>mm | I<br>mm | d<br>mm | Nº<br>Art. | € |
|---------|---------|---------|---------|------------|---|
| 3,00    | 85      | 50      | 3,0     | 1 13903    |   |
| 3,50    | 85      | 50      | 3,0     | 1 13906    |   |
| 4,00    | 85      | 50      | 3,5     | 1 13909    |   |
| 4,50    | 85      | 50      | 4,0     | 1 13910    |   |
| 5,00    | 85      | 50      | 4,5     | 1 14030    |   |
| 6,00    | 100     | 65      | 5,5     | 1 14036    |   |
| 7,00    | 125     | 75      | 6,5     | 1 14061    |   |
| 8,00    | 125     | 75      | 7,5     | 1 14062    |   |
| 9,00    | 150     | 90      | 8,5     | 1 14063    |   |
| 10,00   | 150     | 90      | 9,5     | 1 14066    |   |
| 11,00   | 150     | 90      | 10,0    | 1 14068    |   |



Doble Blister  
ref. M882  
pag. 375



Ref. **1482**

4 Pcs

| Cont.<br>Ø<br>mm | Nº<br>Art. | € |
|------------------|------------|---|
| 4-5-6-8<br>mm    | 31004      |   |



Display  
**1882**

Display Sobremesa  
Table Display  
Pres. Comptoir

Display  
**37**



29  
cm

|     |   |   |   |   |   |   |   |   |   |   |    |
|-----|---|---|---|---|---|---|---|---|---|---|----|
| Ø   | 3 | 4 | 5 | 5 | 6 | 6 | 7 | 8 | 8 | 9 | 10 |
| Pcs | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2  |

Ref. 1882 - Nº Art. 22661: €

|     |   |   |   |   |   |   |   |   |    |    |
|-----|---|---|---|---|---|---|---|---|----|----|
| Ø   | 4 | 4 | 5 | 5 | 6 | 6 | 8 | 8 | 10 | 10 |
| Pcs | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2  | 2  |

Ref. 4995 - Nº Art. 22620: €

# Display especial Porcelánico

Display  
70

**BROCA, BROCA-CORONA, CORONA DIAMANTE PORCELÁNICO**  
**PORCELAIN** Diamond Core Bit & Drill Bit  
 Foret, Foret-Trépan et Trépan Diamant **PORCELAINE**



|              |          |        |        |         |         |         |         |         |         |
|--------------|----------|--------|--------|---------|---------|---------|---------|---------|---------|
| Ref.<br>1882 | ø<br>Pcs | 4<br>2 | 5<br>3 | 5<br>2  | 6<br>5  | 6<br>5  | 8<br>3  | 8<br>2  | 10<br>2 |
| Ref.<br>1879 | ø<br>Pcs | 5<br>5 | 6<br>3 | 6<br>3  | 8<br>2  | 8<br>2  | 10<br>2 | 12<br>1 | 14<br>1 |
| Ref.<br>1883 | ø<br>Pcs | 6<br>1 | 8<br>1 | 10<br>1 | 20<br>1 | 25<br>1 | 32<br>1 | 35<br>1 |         |

Ref. 4995 - Nº Art. 82239: €

Ref. 1879

**BROCA-CORONA DIAMANTE PORCELÁNICO**

**Porcelain** Diamond Core Bit  
 Foret-Trépan diamant **PORCELAINE**



H<sub>2</sub>O  
 Refrigerar punta  
 Point Cooling  
 Refroidir la pointe



**Porcelánico**  
**Porcelain**  
**Porcelaine**

**Uso / Use / Usage**



| D<br>mm | d<br>mm | L<br>mm | I<br>mm | 📦 | Nº<br>Art. | € |
|---------|---------|---------|---------|---|------------|---|
| 5,00    | 8,30    | 68      | 10      | 1 | 56664      |   |
| 6,00    | 8,30    | 68      | 10      | 1 | 56665      |   |
| 8,00    | 8,30    | 80      | 10      | 1 | 56667      |   |
| 10,00   | 8,30    | 80      | 10      | 1 | 56668      |   |
| 12,00   | 8,30    | 80      | 10      | 1 | 56670      |   |
| 14,00   | 8,30    | 80      | 10      | 1 | 56671      |   |



**Set 5 Pcs**

| Cont.<br>Ø<br>mm  | Nº<br>Art. | € |
|-------------------|------------|---|
| 5-6-8-10-12<br>mm | 57448      |   |

Línea 33 cm  
1879

**BROCA-CORONA DIAMANTE PORCELÁNICO**

**Porcelain** Diamond Core Bit  
 Foret-Trépan diamant **PORCELAINE**



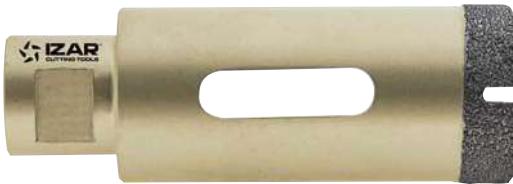
|          |        |        |        |         |         |         |
|----------|--------|--------|--------|---------|---------|---------|
| ø<br>Pcs | 5<br>3 | 6<br>3 | 8<br>3 | 10<br>3 | 12<br>3 | 14<br>3 |
|----------|--------|--------|--------|---------|---------|---------|

Ref. 4995 - Nº Art. 71026: €

Ref. **1883**

## CORONA DIAMANTE PORCELÁNICO

Porcelain Diamond Core Bit  
Trépan diamant PORCELAINE



**Porcelánico**  
**Porcelain**  
**Porcelaine**



Video

### Aplicación

Taladrado limpio de agujeros exactos en placas de piedra, azulejos, cerámicas, dekton y piedra artificial dura. Especial para Porcelánico.

### Atención

Comenzar a taladrar con cuidado por un lado y redirigir poco a poco hacia un taladrado completo.

### Consejo

Puede conseguir un mejor rendimiento con leves movimientos oscilantes a la corona mientras corta.



### Diámetros más usuales

35 mm: Grifería  
40 mm: Desagües electrodomésticos  
50 mm: Desagües industriales  
60 mm: Cajas eléctricas

### Application

Clean drilling of exact and sharp holes in stone plates, tiles, ceramics, dekton and hard artificial stone. Special for Porcelain.

### Please note

Start drilling carefully edgewise and slowly continue with full drilling.

### Tip

With small tilting movements of the core drill the cutting performance can be improved.

### Most usual diameters

35 mm: Water Taps  
40 mm: Appliances Pipes  
50 mm: Industrial Pipes  
60 mm: Electrical Boxes

### Application

Perçage trou précision sur tôles pierre, carreaux de faïence, céramiques et dekton. Spécial pour porcelaine.

### Attention

Commencer à percer doucement et rediriger petit à petit vers un perçage complet.

### Conseil

Vous pouvez avoir une meilleure performance avec faibles mouvements variables sur le trépan dans la coupe.

### Diamètres plus usuels

35 mm: Robinetterie  
40 mm: Déversoirs ménage  
50 mm: Déversoirs industriels  
60 mm: Boîtes électriques

| D<br>mm | L<br>mm | Rosca<br>Thread<br>Filet | Rosca<br>Thread<br>Filet | Nº<br>Art. | € | D<br>mm | L<br>mm | Rosca<br>Thread<br>Filet | Nº<br>Art. | €     |
|---------|---------|--------------------------|--------------------------|------------|---|---------|---------|--------------------------|------------|-------|
| 6       | 63      | M14                      | 1                        | 34506      |   | 35      | 90      | M14                      | 1          | 34510 |
| 8       | 63      | M14                      | 1                        | 34353      |   | 40      | 90      | M14                      | 1          | 34511 |
| 10      | 63      | M14                      | 1                        | 34507      |   | 45      | 90      | M14                      | 1          | 55538 |
| 12      | 63      | M14                      | 1                        | 34508      |   | 50      | 90      | M14                      | 1          | 34512 |
| 14      | 63      | M14                      | 1                        | 55532      |   | 55      | 90      | M14                      | 1          | 55539 |
| 16      | 90      | M14                      | 1                        | 81515      |   | 60      | 90      | M14                      | 1          | 34513 |
| 18      | 90      | M14                      | 1                        | 55533      |   | 68      | 90      | M14                      | 1          | 55541 |
| 20      | 90      | M14                      | 1                        | 55534      |   | 75      | 90      | M14                      | 1          | 34516 |
| 25      | 90      | M14                      | 1                        | 55535      |   | 82      | 90      | M14                      | 1          | 55542 |
| 32      | 90      | M14                      | 1                        | 55536      |   | 110     | 90      | M14                      | 1          | 69797 |



Mod. 00021

Husillo Mango Hexagonal disponible en pag. 82

Hex Shank Spindle available in page 82

Arbre queue hexagonal disponible à la pag. 82

Línea 1m  
**1883**

## CORONA DIAMANTE PORCELÁNICO

Porcelain Diamond Core Bit  
Trépan diamant PORCELAINE



| Ø   | 6 | 8 | 10 | 12 | 14 | 18 | 20 | 25 | 32 | 35 | 40 | 45 | 50 |
|-----|---|---|----|----|----|----|----|----|----|----|----|----|----|
| Pcs | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |

Ref. 4995 - Nº Art. 72145:

€

Ref. 1877

## BROCA GRANITO

Granite Drill Bit  
Foret Granite

## BlackGranite

Granito  
Granite  
GranitePiedra  
Stone  
GraniteMármol  
Marble  
Marbre

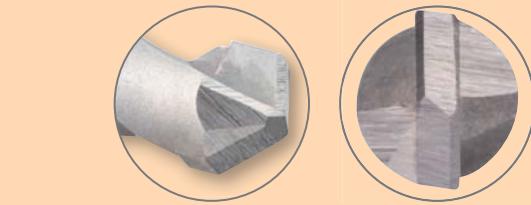
Silestone



Video

- Ideal para piedras de todo tipo hasta granitos de gran dureza.**
- Ideal for all types of stones, from general ones to hard granites.**
- Idéal pour tous les types de pierres jusqu'aux granites difficiles à percer.**

- El uso de refrigeración con agua permite una mayor eficiencia de corte y durabilidad. También apto en seco.**
- Better performance and durability if cooled using water when drilling. Dry cutting also possible**
- Le refroidissement à eau permet une meilleure efficacité de coupe et une meilleure durabilité. Coupe à sec également possible.**

**Forma de filo asimétrico.**

El rectificado asimétrico de la punta de metal duro reduce la resistencia al corte, permitiendo una perforación del material de trabajo con menor esfuerzo de torsión.

**Asymmetric cutting edge shape.**

The asymmetric grinding of the carbide tip reduces cutting resistance, allowing the work material drilling with a lower torque.

**Arête de coupe asymétrique.**

La réctification asymétrique de la pointe en carbure réduit la résistance à la coupure, permettant le perçage du matériau de travail avec une torsion plus faible.

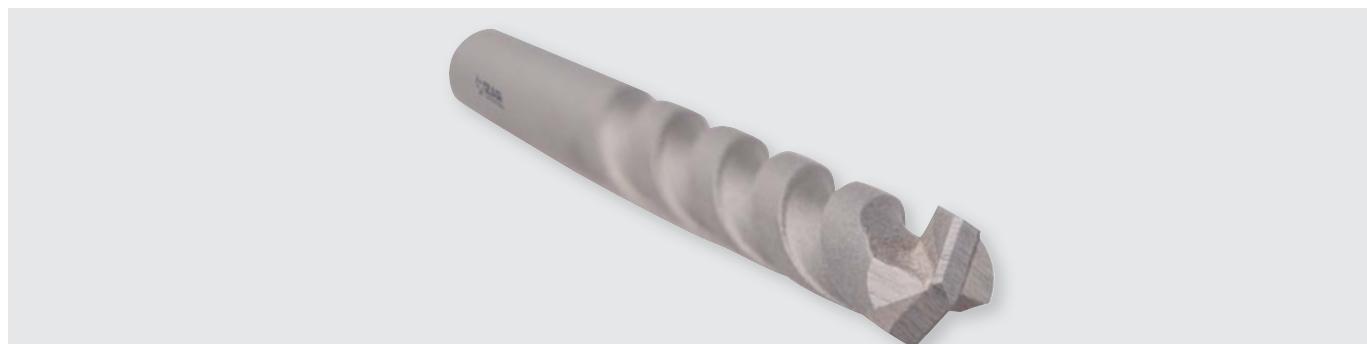
| D<br>mm      | L<br>mm | I<br>mm | d<br>mm | RPM       |   | Nº<br>Art. | € |
|--------------|---------|---------|---------|-----------|---|------------|---|
| <b>3,00</b>  | 85      | 50      | 3,00    | 2000-2500 | 1 | 76539      |   |
| <b>3,50</b>  | 85      | 50      | 3,00    | 2000-2500 | 1 | 76540      |   |
| <b>4,00</b>  | 85      | 50      | 3,50    | 2000-2500 | 1 | 76543      |   |
| <b>4,50</b>  | 85      | 50      | 4,00    | 2000-2500 | 1 | 76544      |   |
| <b>5,00</b>  | 85      | 50      | 4,50    | 2000-2500 | 1 | 76545      |   |
| <b>6,00</b>  | 100     | 65      | 5,50    | 1500-2000 | 1 | 76547      |   |
| <b>7,00</b>  | 125     | 75      | 6,50    | 1500-2000 | 1 | 76548      |   |
| <b>8,00</b>  | 125     | 75      | 7,50    | 1000-1500 | 1 | 76549      |   |
| <b>9,00</b>  | 150     | 90      | 8,50    | 1000-1500 | 1 | 76550      |   |
| <b>10,00</b> | 150     | 90      | 9,50    | 1000-1500 | 1 | 76553      |   |

Display  
**69**29  
cm

| ø   | 4 | 4 | 5 | 5 | 6 | 6 | 8 | 8 | 10 | 10 |
|-----|---|---|---|---|---|---|---|---|----|----|
| Pcs | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 2  | 2  |

Ref. 4995 - Nº Art. 81880:

€



Ref. **1886**

## BROCA PUNTA METAL DURO PARED PROFESIONAL

Professional Concrete Carbide Tipped Drill Bit  
Foret pointe carbure béton professionnel



**MD/HM**  
TCT



**Hormigón  
Concrete  
Béton**

**Hormigón Bloque  
Concrete Block  
Parpaing**

| D<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | € |
|---------|---------|---------|------------|---|
| 3,0     | 60      | 35      | 1 30232    |   |
| 4,0     | 75      | 45      | 1 18525    |   |
| 5,0     | 85      | 40      | 1 18526    |   |
| 5,5     | 85      | 40      | 1 23983    |   |
| 6,0     | 100     | 55      | 1 18528    |   |
| 6,5*    | 100     | 55      | 1 23984    |   |
| 7,0     | 100     | 55      | 1 18529    |   |
| 8,0     | 120     | 70      | 1 18531    |   |
| 9,0     | 120     | 70      | 1 18532    |   |
| 10,0    | 120     | 70      | 1 18534    |   |
| 11,0    | 150     | 90      | 1 17858    |   |
| 12,0    | 150     | 90      | 1 18535    |   |
| 13,0    | 150     | 90      | 1 30234    |   |
| 14,0    | 150     | 90      | 1 18537    |   |
| 16,0    | 150     | 90      | 1 30235    |   |

| D<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | € |
|---------|---------|---------|------------|---|
| 5,0     | 150     | 80      | 1 30176    |   |
| 6,0     | 150     | 80      | 1 30200    |   |
| 8,0     | 200     | 130     | 1 30208    |   |
| 10,0    | 200     | 130     | 1 30214    |   |
| 12,0    | 200     | 130     | 1 30222    |   |



**Doble Blister  
ref. M886  
pag. 376**

\* Diam. hasta fin de existencias / while stock lasts / jusqu'à la fin de stock

Línea 1m  
**1886**

## BROCA PUNTA METAL DURO PARED PROFESIONAL

Professional Concrete Carbide Tipped Drill Bit  
Foret pointe carbure béton professionnel



| Ø<br>Pcs | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 12 | 14 | 16 |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| 10       | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |

Ref. 4995 - Nº Art. 71100: €



Ref. **1846**

## BROCA PUNTA METAL DURO PARED PRO EXTRA LARGA

Extra Long Professional Concrete Carbide Tipped Drill Bit

Foret pointe carbure béton professionnel extra-longue



**MD/HM**  
TCT



**Serie Extra Larga**  
**Extra Long Series**  
Série extra-longue

**Hormigón**  
**Concrete**  
Béton

**Hormigón Bloque**  
**Concrete Block**  
Parpaing

| D<br>mm   | L<br>mm | I<br>mm | Art. | €     |
|-----------|---------|---------|------|-------|
| <b>6</b>  | 400     | 300     | 1    | 30202 |
| <b>8</b>  | 400     | 300     | 1    | 30212 |
| <b>10</b> | 400     | 300     | 1    | 30216 |
| <b>12</b> | 400     | 300     | 1    | 30227 |
| <b>14</b> | 400     | 300     | 1    | 30233 |
| <b>16</b> | 400     | 300     | 1    | 30237 |
| <b>18</b> | 400     | 300     | 1    | 30207 |
| <b>20</b> | 400     | 300     | 1    | 30225 |
| <b>22</b> | 400     | 300     | 1    | 16474 |
| <b>24</b> | 400     | 300     | 1    | 16475 |
| <b>25</b> | 400     | 300     | 1    | 16476 |

| D<br>mm   | L<br>mm | I<br>mm | Art. | €     |
|-----------|---------|---------|------|-------|
| <b>8</b>  | 600     | 450     | 1    | 76910 |
| <b>10</b> | 600     | 450     | 1    | 30218 |
| <b>12</b> | 600     | 450     | 1    | 30229 |
| <b>14</b> | 600     | 450     | 1    | 30236 |
| <b>16</b> | 600     | 450     | 1    | 30238 |
| <b>18</b> | 600     | 450     | 1    | 16477 |
| <b>20</b> | 600     | 450     | 1    | 16478 |

Línea 1m  
**1846**

## BROCA PUNTA METAL DURO PARED PRO EXTRA LARGA

Extra Long Professional Concrete Carbide Tipped Drill Bit

Foret pointe carbure béton professionnel extra-longue



| Ø   | 6<br>L400 | 8<br>L400 | 10<br>L400 | 12<br>L400 | 14<br>L400 | 16<br>L400 | 18<br>L400 | 20<br>L400 | 22<br>L400 | 24<br>L400 | 25<br>L400 | 10<br>L600 | 12<br>L600 | 14<br>L600 | 16<br>L600 | 18<br>L600 | 20<br>L600 |
|-----|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Pcs | 2         | 2         | 2          | 2          | 2          | 2          | 2          | 1          | 1          | 1          | 1          | 2          | 2          | 2          | 2          | 2          | 1          |

Ref. 4995 - Nº Art. 72150: €



## Display 07

### BROCA PUNTA METAL DURO PARED PROFESIONAL

Professional Concrete Carbide Tipped Drill Bit  
Foret pointe carbure béton professionnel



| Ø   | 12<br>L200 | 8<br>L400  | 10<br>L400 | 12<br>L400 | 14<br>L400 | 16<br>L400 | 18<br>L400 | 20<br>L400 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|
| Pcs | 3          | 3          | 3          | 3          | 3          | 3          | 2          | 2          |
| Ø   | 10<br>L120 | 12<br>L150 | 14<br>L150 | 16<br>L150 | 5<br>L150  | 6<br>L150  | 8<br>L200  | 10<br>L200 |
| Pcs | 5          | 5          | 5          | 5          | 5          | 5          | 5          | 3          |
| Ø   | 3<br>L60   | 4<br>L75   | 5<br>L85   | 5<br>L85   | 6<br>L100  | 6<br>L100  | 7<br>L120  | 8<br>L120  |
| Pcs | 10         | 10         | 5          | 5          | 5          | 5          | 5          | 5          |

Ref. 4995 - Nº Art. 22191: €

## Display 52 Mixto PRO

### BROCAS MULTI INOX + PARED PRO + MADERA PRO

Multi-Stainless + Concrete Pro + Wood Pro Drill Bits  
Forets Multi INOX + béton pro + bois pro



| Ref.<br>1886 | Ø | 3 | 4  | 5  | 6   | 7 | 8   | 9 | 10 | 12 | 14 |
|--------------|---|---|----|----|-----|---|-----|---|----|----|----|
| Pcs          | 5 | 5 | 10 | 10 | 5   | 5 | 3   | 3 | 3  | 3  | 3  |
| Ref.<br>1641 | Ø | 3 | 3  | 4  | 4   | 5 | 5   | 6 | 6  | 8  | 10 |
| Pcs          | 3 | 2 | 3  | 2  | 3   | 2 | 3   | 2 | 5  | 5  | 5  |
| Ref.<br>1004 | Ø | 1 | 2  | 3  | 3,5 | 4 | 4,5 | 5 | 6  | 8  | 10 |
| Pcs          | 2 | 2 | 3  | 3  | 5   | 5 | 5   | 5 | 5  | 5  | 3  |

Ref. 4995 - Nº Art. 68575: €

## Display 23

### JUEGOS CASSETTE MADERA Y CONSTRUCCIÓN

Wood & Construction Cassette Sets  
Jeux cassette bois & construction



| Constr.               |     | Ref. 1485<br>Pared<br>Masonry / Béton<br>5 Pcs. | Ref. 1486<br>Pared Pro<br>Masonry Pro /Béton Pro<br>5 Pcs. | Ref. 1435<br>Madera<br>Wood / Bois<br>5 Pcs. | Ref. 1438<br>Madera<br>Wood / Bois<br>8 Pcs. |
|-----------------------|-----|-------------------------------------------------|------------------------------------------------------------|----------------------------------------------|----------------------------------------------|
| Madera<br>Wood / Bois | Pcs | 5                                               | 5                                                          | 5                                            | 5                                            |

| Constr. |   | Ref. 1488<br>Pared<br>Masonry / Béton<br>8 Pcs. | Ref. 1487<br>Pared Pro<br>Masonry Pro /Béton Pro<br>8 Pcs. | Ref. 1494<br>SDS plus<br>4 Pcs. |
|---------|---|-------------------------------------------------|------------------------------------------------------------|---------------------------------|
| Pcs     | 5 | 5                                               | 5                                                          | 3                               |

Ref. 4995 - Nº Art. 22372: €

# Sets 1886

## BROCA PUNTA METAL DURO PARED PROFESIONAL

Professional Concrete Carbide Tipped Drill Bit  
Foret pointe carbure béton professionnel



Set 1486

5 Pcs

| Cont.         | Ø     | Nº Art. | € |
|---------------|-------|---------|---|
| 4-5-6-8-10 mm | 10 mm | 30220   |   |



Set 1487

8 Pcs

| Cont.               | Ø     | Nº Art. | € |
|---------------------|-------|---------|---|
| 3-4-5-6-7-8-9-10 mm | 10 mm | 21653   |   |

## Línea 33 cm 14S1

### SETS BROCAS METAL, PARED PRO, PARED, MADERA

Metal, Concrete, Masonry, Wood Sets  
Jeux métal, béton, maçonnerie, bois



|      | Metal<br>Metal<br>Métal<br><b>1462-1010</b> | Pared Pro<br>Concrete<br>Béton<br><b>1486</b> | Pared<br>Masonry<br>Maçonnerie<br><b>1485</b> | Madera<br>Wood<br>Bois<br><b>1435</b> |
|------|---------------------------------------------|-----------------------------------------------|-----------------------------------------------|---------------------------------------|
| Ref  |                                             |                                               |                                               |                                       |
| Diam | 2-3-4-5-6-8 mm                              | 4-5-6-8-10 mm                                 | 4-5-6-8-10 mm                                 | 4-5-6-8-10 mm                         |
| Pcs. | 5                                           | 5                                             | 5                                             | 5                                     |

Ref. 4995 - Nº Art. 72193: €



## Línea 33 cm 14S2

### SETS BROCAS HORMIGÓN, PARED PRO, PARED

Concrete, Masonry Sets  
Jeux Béton, Maçonnerie



|      | Hormigón<br>Concrete<br>Béton<br><b>1494</b> | Pared Pro<br>Concrete<br>Béton<br><b>1487</b> | Pared<br>Masonry<br>Maçonnerie<br><b>1488</b> |
|------|----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Ref  |                                              |                                               |                                               |
| Diam | 5/6x110 + 8/10x160 mm                        | 3-4-5-6-7-8-9-10 mm                           | 3-4-5-6-7-8-9-10 mm                           |
| Pcs. | 3                                            | 5                                             | 5                                             |

Ref. 4995 - Nº Art. 72194: €

Ref. **1880**

## BROCA PUNTA METAL DURO PARED STANDARD

Standard MASONRY Carbide Tipped Drill Bit  
Foret pointe carbure MAÇONNERIE standard



**MD/HM**  
TCT



**Ladrillo**  
Brick  
Brique

| D<br>mm | L<br>mm | I<br>mm | d<br>mm | cube | Nº<br>Art. | € |
|---------|---------|---------|---------|------|------------|---|
| 3       | 60      | 30      | 2,5     | 1    | 18495      |   |
| 4       | 75      | 40      | 3,2     | 1    | 18496      |   |
| 5       | 85      | 50      | 4,0     | 1    | 18498      |   |
| 6       | 100     | 60      | 4,8     | 1    | 18499      |   |
| 7       | 100     | 60      | 5,2     | 1    | 18501      |   |
| 8       | 120     | 80      | 6,2     | 1    | 18502      |   |
| 9       | 120     | 80      | 7,5     | 1    | 18504      |   |
| 10      | 120     | 80      | 7,5     | 1    | 18505      |   |
| 11      | 150     | 85      | 8,5     | 1    | 30178      |   |
| 12      | 150     | 85      | 8,5     | 1    | 18507      |   |

| D<br>mm | L<br>mm | I<br>mm | d<br>mm | cube | Nº<br>Art. | € |
|---------|---------|---------|---------|------|------------|---|
| 13      | 150     | 95      | 10,0    | 1    | 30180      |   |
| 14      | 150     | 95      | 10,0    | 1    | 18508      |   |
| 16      | 150     | 95      | 14,0    | 1    | 30184      |   |
| 18      | 160     | 105     | 16,0    | 1    | 30188      |   |
| 20      | 160     | 105     | 18,0    | 1    | 30190      |   |
| 22      | 160     | 105     | 19,0    | 1    | 30192      |   |
| 25      | 160     | 105     | 22,5    | 1    | 30194      |   |

| D<br>mm | L<br>mm | I<br>mm | d<br>mm | cube | Nº<br>Art. | € |
|---------|---------|---------|---------|------|------------|---|
| 5       | 150     | 85      | 4,0     | 1    | 30174      |   |
| 6       | 150     | 85      | 4,8     | 1    | 30196      |   |

| D<br>mm | L<br>mm | I<br>mm | d<br>mm | cube | Nº<br>Art. | € |
|---------|---------|---------|---------|------|------------|---|
| 6       | 200     | 135     | 4,8     | 1    | 30198      |   |
| 8       | 200     | 135     | 7,5     | 1    | 30211      |   |
| 10      | 200     | 135     | 8,5     | 1    | 30412      |   |
| 12      | 200     | 135     | 8,5     | 1    | 30224      |   |
| 14      | 200     | 135     | 12,0    | 1    | 30228      |   |



**Doble Blister**  
ref. M880  
pag. 377

Línea 1m  
**1880**

## BROCA PUNTA METAL DURO PARED STANDARD

Standard MASONRY Carbide Tipped Drill Bit  
Foret pointe carbure MAÇONNERIE standard



| Ø   | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 12 | 14 |
|-----|----|----|----|----|----|----|----|----|----|----|
| Pcs | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |

Ref. 4995 - Nº Art. 71032: €

## Display 08

### BROCA PUNTA METAL DURO PARED

MASONRY Carbide Tipped Drill Bit  
Foret pointe carbure MAÇONNERIE



|           | Ø 16<br>L150 | 5<br>L150 | 6<br>L150 | 6<br>L200 | 8<br>L200 | 10<br>L200 | 12<br>L200 | 14<br>L200 |
|-----------|--------------|-----------|-----------|-----------|-----------|------------|------------|------------|
| Ref. 1880 | Pcs 5        | Pcs 5     | Pcs 10    | Pcs 10    | Pcs 10    | Pcs 5      | Pcs 5      | Pcs 5      |
| Ø         | 3<br>L60     | 4<br>L75  | 5<br>L85  | 6<br>L100 | 7<br>L100 | 8<br>L120  | 9<br>L120  | 10<br>L120 |
|           | Pcs 10       | Pcs 10    | Pcs 10    | Pcs 10    | Pcs 10    | Pcs 5      | Pcs 5      | Pcs 5      |
| Ref. 1485 | Ref. 1485    |           |           | Ref. 1488 |           |            | Ref. 1485  |            |
| 1488      | Pcs          | 5         |           |           | 5         |            |            | 5          |

Ref. 4995 - Nº Art. 22311: €

## Display 09

### BROCAS PARED, VIDRIO, UNIVERSAL

Masonry, Glass, Universal Drill Bits  
Forets maçonnerie, verre, universel



|           | Ø 3<br>L60 | 4<br>L75 | 5<br>L85 | 6<br>L100 | 7<br>L100 | 8<br>L120 | 9<br>L120 | 10<br>L120 | 12<br>L150 | 14<br>L150 |
|-----------|------------|----------|----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| Ref. 1880 | Pcs 5      | Pcs 5    | Pcs 10   | Pcs 10    | Pcs 5     | Pcs 6     | Pcs 3     | Pcs 3      | Pcs 3      | Pcs 3      |
| Ø         | 3<br>L60   | 4<br>L75 | 4<br>L85 | 5<br>L100 | 5<br>L100 | 6<br>L120 | 6<br>L120 | 8<br>L120  | 8<br>L150  | 10<br>L150 |
|           | Pcs 5      | Pcs 3    | Pcs 2    | Pcs 3     | Pcs 2     | Pcs 3     | Pcs 2     | Pcs 3      | Pcs 2      | Pcs 5      |
| Ref. 1836 | Pcs        | 5        |          |           | 3         |           |           | 2          |            | 5          |
| Ø         | 4<br>L60   | 5<br>L75 | 6<br>L85 | 6<br>L100 | 6<br>L100 | 8<br>L120 | 8<br>L120 | 10<br>L120 | 10<br>L150 | 12<br>L150 |
|           | Pcs 5      | Pcs 5    | Pcs 5    | Pcs 5     | Pcs 5     | Pcs 3     | Pcs 2     | Pcs 5      | Pcs 5      | Pcs 5      |
| Ref. 1881 | Pcs        | 5        |          |           | 5         |           |           | 2          |            | 5          |

Ref. 4995 - Nº Art. 22410: €



## Display 51

### BROCAS METAL + PARED + MADERA

Metal + Masonry + Wood Drill Bits

Forets métal + maçonnerie + bois



| Ref. | Ø   | 3  | 4  | 5  | 6   | 7  | 8   | 9  | 10 | 12 | 14 |
|------|-----|----|----|----|-----|----|-----|----|----|----|----|
|      | Pcs | 10 | 10 | 10 | 10  | 10 | 10  | 5  | 5  | 5  | 5  |
| Ref. | Ø   | 3  | 4  | 5  | 6   | 8  | 9   | 10 | 12 | 14 | 16 |
| 1640 | Pcs | 10 | 10 | 10 | 10  | 10 | 5   | 5  | 5  | 5  | 5  |
| Ref. | Ø   | 1  | 2  | 3  | 3,5 | 4  | 4,5 | 5  | 6  | 8  | 10 |
| 1001 | Pcs | 10 | 10 | 10 | 10  | 10 | 10  | 10 | 5  | 5  | 3  |

Ref. 4995 - Nº Art. 68572: €

## Display 59

### BROCAS SPEED POINT + PARED + MADERA

Speed Point + Masonry + Wood Drill Bits

Forets speed point + maçonnerie + bois



| Ref. | Ø   | 3  | 4  | 5   | 6  | 7   | 8  | 9  | 10 | 12 | 14 |
|------|-----|----|----|-----|----|-----|----|----|----|----|----|
|      | Pcs | 10 | 10 | 10  | 10 | 10  | 10 | 5  | 5  | 5  | 5  |
| Ref. | Ø   | 3  | 4  | 5   | 6  | 8   | 9  | 10 | 12 | 14 | 16 |
| 1640 | Pcs | 10 | 10 | 10  | 10 | 10  | 5  | 5  | 5  | 5  | 5  |
| Ref. | Ø   | 2  | 3  | 3,5 | 4  | 4,5 | 5  | 6  | 7  | 8  | 10 |
| 1002 | Pcs | 10 | 10 | 10  | 10 | 10  | 10 | 5  | 5  | 5  | 3  |

Ref. 4995 - Nº Art. 70099: €

# Sets 1880

## BROCA PUNTA METAL DURO PARED STANDARD

Standard MASONRY Carbide Tipped Drill Bit  
Foret Pointe carbure MAÇONNERIE standard



Set 1485

5 Pcs

| Cont.         | Nº Art. | € |
|---------------|---------|---|
| 4-5-6-8-10 mm | 30215   |   |



Set 1488

8 Pcs

| Cont.               | Nº Art. | € |
|---------------------|---------|---|
| 3-4-5-6-7-8-9-10 mm | 30219   |   |

## Línea 33 cm 14S1

### SETS BROCAS METAL, PARED PRO, PARED, MADERA

Metal, Concrete, Masonry, Wood Sets  
Jeux métal, béton, maçonnerie, bois



| Ref  | Metal<br>Metal<br>Métal<br><b>1462-1010</b> | Pared Pro<br>Concrete<br>Béton<br><b>1486</b> | Pared<br>Masonry<br>Maçonnerie<br><b>1485</b> | Madera<br>Wood<br>Bois<br><b>1435</b> |
|------|---------------------------------------------|-----------------------------------------------|-----------------------------------------------|---------------------------------------|
| Diam | 2-3-4-5-6-8 mm                              | 4-5-6-8-10 mm                                 | 4-5-6-8-10 mm                                 | 4-5-6-8-10 mm                         |
| Pcs. | 5                                           | 5                                             | 5                                             | 5                                     |

Ref. 4995 - Nº Art. 72193: €

## Línea 33 cm 14S2

### SETS BROCAS HORMIGÓN, PARED PRO, PARED

Concrete, Masonry Sets  
Jeux béton, maçonnerie



| Ref  | Hormigón<br>Concrete<br>Béton<br><b>1494</b> | Pared Pro<br>Concrete<br>Béton<br><b>1487</b> | Pared<br>Masonry<br>Maçonnerie<br><b>1488</b> |
|------|----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Diam | 5/6x110 + 8/10x160 mm                        | 3-4-5-6-7-8-9-10 mm                           | 3-4-5-6-7-8-9-10 mm                           |
| Pcs. | 3                                            | 5                                             | 5                                             |

Ref. 4995 - Nº Art. 72194: €

## Ref. 1460

### SET MIXTO BROCAS

Drill Bit Mix Set  
Jeu forets mix



9 Pcs

| Cont.                           | Nº Art. | € |
|---------------------------------|---------|---|
| 3 Pcs Metal: 5-6-8              |         |   |
| 3 Pcs Madera/Wood/Bois: 5-6-8   | 55610   |   |
| 3 Pcs Pared/Masonry/Béton 5-6-8 |         |   |

Ref. **1881**

## BROCA UNIVERSAL

UNIVERSAL Drill Bit

Foret UNIVERSEL



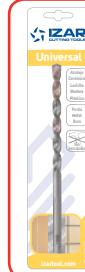
**Plásticos**  
Plastics  
Plastiques

**Cerámica**  
Ceramics  
Céramique

**Ladrillo**  
Brick  
Brique

**Madera**  
Wood  
Bois

| D<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | € |
|---------|---------|---------|---|------------|---|
| 4       | 103     | 50      | 1 | 19065      |   |
| 5       | 112     | 50      | 1 | 19066      |   |
| 6       | 123     | 60      | 1 | 19069      |   |
| 8       | 134     | 80      | 1 | 19072      |   |
| 10      | 135     | 80      | 1 | 19075      |   |
| 12      | 153     | 90      | 1 | 19076      |   |



**Doble Blister**  
ref. M881  
pag. 378

**Línea 33 cm**  
**1881**

## BROCA UNIVERSAL

UNIVERSAL Drill Bit

Foret UNIVERSEL

| Ø   | 4 | 5 | 6 | 8 | 10 | 12 |
|-----|---|---|---|---|----|----|
| Pcs | 5 | 6 | 5 | 5 | 5  | 5  |

Ref. 4995 - Nº Art. 71034: €



**Display**  
**09**

## BROCAS PARED, VIDRIO, UNIVERSAL

Masonry, Glass, Universal Drill Bits

Forets maçonnerie, verre, universel



| Ref.<br>1880 | Ø<br>L60 | 4<br>L75 | 5<br>L85 | 6<br>L100 | 7<br>L100 | 8<br>L120 | 9<br>L120 | 10<br>L120 | 12<br>L150 | 14<br>L150 |
|--------------|----------|----------|----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| Pcs          | 5        | 5        | 10       | 10        | 5         | 6         | 3         | 3          | 3          | 3          |
| Ref.<br>1836 | Ø        | 3        | 4        | 4         | 5         | 5         | 6         | 6          | 8          | 8          |
| Pcs          | 5        | 3        | 2        | 3         | 2         | 3         | 2         | 3          | 2          | 5          |
| Ref.<br>1881 | Ø        | 4        | 5        | 6         | 6         | 8         | 8         | 10         | 12         | 12         |
| Pcs          | 5        | 5        | 5        | 5         | 5         | 3         | 2         | 5          | 5          | 5          |

Ref. 4995 - Nº Art. 22410: €

Ref. **1889**

## BROCA UNIVERSAL

UNIVERSAL Drill Bit

Foret UNIVERSEL



| D<br>mm | L<br>mm | I<br>mm |    | Nº<br>Art. | €<br>1 ud. |
|---------|---------|---------|----|------------|------------|
| 5       | 112     | 50      | 10 | 21925      |            |
| 6       | 123     | 60      | 10 | 21926      |            |
| 8       | 134     | 80      | 10 | 21927      |            |

Una broca para TODOS los materiales

One Drill Bit for ALL Materials

Un foret pour TOUS les matériaux

Ref. **1876**

## BROCA PUNTA METAL DURO MULTIPROPÓSITO

MultiPurpose Carbide Tipped Drill Bit

Foret pointe carbone Multifonction

New!



### MULTIMAT



Video

Hormigón  
Concrete  
Béton

Ladrillo  
Brick  
Brique

Cerámica  
Ceramics  
Céramique

Porcelánico Blando  
Soft Porcelain  
Porcelaine tendre

Aceros  
Steels  
Aciers

Madera  
Wood  
Bois

Plásticos  
Plastics  
Plastiques

| D<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | € |
|---------|---------|---------|---|------------|---|
| 3       | 70      | 35      | 1 | 25533      |   |
| 4       | 75      | 40      | 1 | 25534      |   |
| 5       | 85      | 50      | 1 | 25536      |   |
| 6       | 100     | 65      | 1 | 25539      |   |
| 8       | 120     | 70      | 1 | 25542      |   |
| 10      | 120     | 70      | 1 | 25546      |   |
| 12      | 150     | 90      | 1 | 25549      |   |

| D<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | € |
|---------|---------|---------|---|------------|---|
| 6       | 150     | 90      | 1 | 25540      |   |
| 8       | 150     | 90      | 1 | 25543      |   |
| 10      | 150     | 90      | 1 | 25548      |   |

- Punta de metal duro con afilado exclusivo IZAR
- Apta para trabajar con percusión (hormigón) y rotación (ladrillo, cerámica, chapa, madera y plásticos)
- Canales amplios, mejor desahogo del polvo / viruta
- Permite trabajo en seco, optimizado con refrigeración
- Perforación con precisión
- Geometría innovadora que permite una rápida perforación
- Tratamiento superficial IZAR BLUE, evita la adherencia del polvo / viruta

- Carbide Tip with exclusive Sharpening
- Suitable for working with Percussion (Concrete) & Rotation (Brick, Ceramics, Sheets, Wood & Plastic)
- Wide Flutes, better dust / chip relief
- Dry Running allowed, optimized with Cooling
- Drilling with Precision
- Innovative Geometry that allows Fast Drilling
- IZAR BLUE Surface Treatment, prevents the adhesion of dust / chips

- Pointe carbure avec affûtage exclusif
- Convient pour travailler avec percussion (béton) et rotation (brique, céramique, tôle, bois et plastique)
- Goujure large, meilleur soulagement des poussières / copeaux
- Travail à sec, optimisé avec réfrigération
- Perçage avec précision
- Géométrie innovante qui permet un perçage rapide
- Traitements de surface IZAR BLUE, empêche l'adhérence des poussières / copeaux



Ref. **1836**

## BROCA VIDRIO

GLASS Drill Bit

Foret VERRE

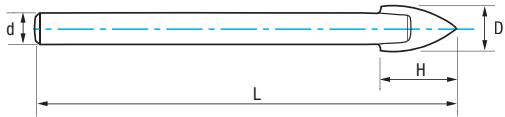


MD  
HM



Vidrio  
Glass  
Verre

Cerámica  
Ceramics  
Céramique



Doble Blister  
ref. M836  
pag. 378

| D<br>mm | d<br>mm | L<br>mm | H<br>mm | Nº<br>Art. | € |
|---------|---------|---------|---------|------------|---|
| 3       | 2,80    | 58      | 6       | 30239      |   |
| 4       | 3,20    | 64      | 8       | 30240      |   |
| 5       | 4,00    | 70      | 10      | 30241      |   |
| 6       | 4,80    | 76      | 12      | 30242      |   |
| 8       | 6,20    | 83      | 16      | 30243      |   |
| 10      | 7,50    | 90      | 20      | 30244      |   |

Línea 33 cm  
**1836**

## BROCA VIDRIO

GLASS Drill Bit

Foret VERRE



| ø   | 3 | 4 | 5 | 6 | 8 | 10 |
|-----|---|---|---|---|---|----|
| Pcs | 5 | 5 | 5 | 5 | 5 | 5  |

Ref. 4995 - Nº Art. 71037: €

Ref. **1699**

## PUNTERO MARCADOR

Pencil Scriber

Traçeur carbure



MD/HM  
TCT



Aceros  
Steel  
Aciers

Madera  
Wood  
Bois

Cerámica  
Ceramics  
Céramique

| Nº<br>Art. | € |
|------------|---|
| 1 18856    |   |

Ref. **1601**

## BROCA PARED

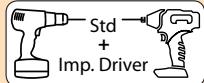
Masonry Drill Bit  
Foret maçonnerie



**MD/HM**  
TCT



**1/4"**  
DIN E6.3



| D<br>mm      | L<br>mm | I<br>mm | d<br>mm | Nº<br>Art. | €     |
|--------------|---------|---------|---------|------------|-------|
| <b>4,00</b>  | 75      | 40      | 6,35    | 1          | 55997 |
| <b>5,00</b>  | 85      | 50      | 6,35    | 1          | 55998 |
| <b>6,00</b>  | 100     | 60      | 6,35    | 1          | 55999 |
| <b>8,00</b>  | 120     | 80      | 6,35    | 1          | 56000 |
| <b>10,00</b> | 120     | 80      | 6,35    | 1          | 56001 |

**Línea 33 cm**  
**1601**

## BROCA PARED

Masonry Drill Bit  
Foret maçonnerie



|     |          |          |          |          |           |  |
|-----|----------|----------|----------|----------|-----------|--|
| ∅   | <b>4</b> | <b>5</b> | <b>6</b> | <b>8</b> | <b>10</b> |  |
| Pcs | 5        | 5        | 5        | 5        | 5         |  |

Ref. 4995 - Nº Art. 72200: €

**Display**  
**54**

## BROCAS METAL + PARED + MADERA

Metal + Masonry + Wood Drill Bits  
Forets Métal + Maçonnerie + Bois



|     |          |          |             |            |          |          |          |          |
|-----|----------|----------|-------------|------------|----------|----------|----------|----------|
| ∅   | <b>2</b> | <b>3</b> | <b>3,25</b> | <b>3,5</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>8</b> |
| Pcs | 3        | 3        | 3           | 3          | 3        | 3        | 3        | 3        |

|     |           |           |           |           |           |            |          |          |
|-----|-----------|-----------|-----------|-----------|-----------|------------|----------|----------|
| ∅   | <b>M3</b> | <b>M4</b> | <b>M5</b> | <b>M6</b> | <b>M8</b> | <b>M10</b> | <b>4</b> | <b>5</b> |
| Pcs | 2         | 2         | 2         | 2         | 2         | 2          | 3        | 3        |

|     |          |          |           |          |          |          |          |          |
|-----|----------|----------|-----------|----------|----------|----------|----------|----------|
| ∅   | <b>6</b> | <b>8</b> | <b>10</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>8</b> |
| Pcs | 3        | 3        | 3         | 3        | 3        | 3        | 3        | 3        |

Ref. 4995 - Nº Art. 69804: €





# CORONAS

Hole Saws

Trépans

Ref. **1645**

## SIERRA CORONA METAL / MADERA

METAL / WOOD Hole Saw

Trépan MÉTAL / BOIS



|                       |  |                                 |  |                |  |                                                               |  |                                                |  |
|-----------------------|--|---------------------------------|--|----------------|--|---------------------------------------------------------------|--|------------------------------------------------|--|
| <b>HSSE<br/>8% Co</b> |  | <b>INOX<br/>Stain-<br/>less</b> |  | <b>Bimetal</b> |  | <b>Aceros<br/>&lt;850 N/mm<sup>2</sup><br/>Steel / Aciers</b> |  | <b>INOX<br/>Stainless Steel<br/>Acier INOX</b> |  |
| <b>TPI<br/>4-6</b>    |  |                                 |  |                |  |                                                               |  | <b>Fundición<br/>Cast Iron<br/>Fonte</b>       |  |
|                       |  |                                 |  |                |  |                                                               |  | <b>Cobre<br/>Copper<br/>Cuivre</b>             |  |
|                       |  |                                 |  |                |  |                                                               |  | <b>Madera<br/>Wood<br/>Bois</b>                |  |



| D<br>mm   | L<br>mm | P.G.      | Pulgadas<br>Inches / Pouces | € | D<br>mm      | L<br>mm | P.G. | Pulgadas<br>Inches / Pouces | €  |
|-----------|---------|-----------|-----------------------------|---|--------------|---------|------|-----------------------------|----|
| <b>14</b> | 37      |           | 9/16                        | 1 | <b>20094</b> |         |      | <b>57</b>                   | 37 |
| <b>16</b> | 37      | <b>9</b>  | 5/8                         | 1 | <b>20104</b> |         |      | <b>59</b>                   | 37 |
| <b>17</b> | 37      |           | 11/16                       | 1 | <b>21321</b> |         |      | <b>60</b>                   | 37 |
| <b>19</b> | 37      | <b>11</b> | 3/4                         | 1 | <b>30250</b> |         |      | <b>63</b>                   | 37 |
| <b>20</b> | 37      |           | 25/32                       | 1 | <b>30258</b> |         |      | <b>64</b>                   | 37 |
| <b>21</b> | 37      | <b>14</b> | 13/16                       | 1 | <b>30260</b> |         |      | <b>65</b>                   | 37 |
| <b>22</b> | 37      | <b>16</b> | 7/8                         | 1 | <b>30265</b> |         |      | <b>67</b>                   | 37 |
| <b>23</b> | 37      |           | 14/16                       | 1 | <b>30268</b> |         |      | <b>68</b>                   | 37 |
| <b>24</b> | 37      |           | 15/16                       | 1 | <b>30274</b> |         |      | <b>70</b>                   | 37 |
| <b>25</b> | 37      |           | 1                           | 1 | <b>30282</b> |         |      | <b>73</b>                   | 37 |
| <b>27</b> | 37      |           | 1 1/16                      | 1 | <b>30287</b> |         |      | <b>76</b>                   | 37 |
| <b>29</b> | 37      | <b>21</b> | 1 1/8                       | 1 | <b>30289</b> |         |      | <b>79</b>                   | 37 |
| <b>30</b> | 37      |           | 1 3/16                      | 1 | <b>30293</b> |         |      | <b>83</b>                   | 37 |
| <b>32</b> | 37      |           | 1 1/4                       | 1 | <b>30297</b> |         |      | <b>86</b>                   | 37 |
| <b>33</b> | 37      |           | 1 5/16                      | 1 | <b>30301</b> |         |      | <b>89</b>                   | 37 |
| <b>35</b> | 37      |           | 1 3/8                       | 1 | <b>30302</b> |         |      | <b>92</b>                   | 37 |
| <b>37</b> | 37      | <b>29</b> | 1 7/16                      | 1 | <b>30304</b> |         |      | <b>95</b>                   | 37 |
| <b>38</b> | 37      |           | 1 1/2                       | 1 | <b>30307</b> |         |      | <b>98</b>                   | 37 |
| <b>40</b> | 37      |           | 1 9/16                      | 1 | <b>30308</b> |         |      | <b>102</b>                  | 37 |
| <b>41</b> | 37      |           | 1 5/8                       | 1 | <b>30310</b> |         |      | <b>105</b>                  | 37 |
| <b>43</b> | 37      |           | 1 11/16                     | 1 | <b>30313</b> |         |      | <b>114</b>                  | 37 |
| <b>44</b> | 37      |           | 1 3/4                       | 1 | <b>30315</b> |         |      | <b>121</b>                  | 37 |
| <b>46</b> | 37      |           | 1 13/16                     | 1 | <b>30316</b> |         |      | <b>127</b>                  | 37 |
| <b>48</b> | 37      | <b>36</b> | 1 7/8                       | 1 | <b>30318</b> |         |      | <b>140</b>                  | 37 |
| <b>50</b> | 37      |           | 1 31/32                     | 1 | <b>18800</b> |         |      | <b>152</b>                  | 37 |
| <b>51</b> | 37      |           | 2                           | 1 | <b>30320</b> |         |      | <b>160</b>                  | 37 |
| <b>52</b> | 37      |           | 2 1/16                      | 1 | <b>30321</b> |         |      | <b>210</b>                  | 37 |
| <b>54</b> | 37      | <b>42</b> | 2 1/8                       | 1 | <b>30323</b> |         |      |                             |    |



**Husillos y Adaptadores:** Pag. 255 / **Spindles & Adapters:** Pag. 255 / **Arbres et Adaptateurs:** Pag. 255



Línea 1m  
**1645**

## SIERRA CORONA METAL / MADERA

METAL / WOOD Hole Saw

Trépan MÉTAL / BOIS



|     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |            |            |
|-----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|
| Ø   | <b>16</b> | <b>19</b> | <b>20</b> | <b>22</b> | <b>24</b> | <b>25</b> | <b>27</b> | <b>29</b> | <b>30</b> | <b>32</b> | <b>35</b> | <b>51</b> | <b>64</b> | <b>65</b> | <b>H3A</b> | <b>H4A</b> |
| Pcs | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2          | 2          |

Ref. 4995 - Nº Art. 71040: €

Display  
**19**

## SIERRA CORONA METAL / MADERA

METAL / WOOD Hole Saw

Trépan MÉTAL / BOIS



|                      |           |           |            |            |            |                  |                   |           |           |           |           |
|----------------------|-----------|-----------|------------|------------|------------|------------------|-------------------|-----------|-----------|-----------|-----------|
| Ø                    | <b>16</b> | <b>19</b> | <b>20</b>  | <b>22</b>  | <b>24</b>  | <b>25</b>        | <b>27</b>         | <b>29</b> | <b>30</b> | <b>32</b> | <b>35</b> |
| Pcs                  | 2         | 2         | 2          | 2          | 2          | 2                | 2                 | 2         | 2         | 2         | 2         |
| Ref.<br>1645         | <b>38</b> | <b>40</b> | <b>41</b>  | <b>43</b>  | <b>44</b>  | <b>48</b>        | <b>51</b>         | <b>54</b> |           |           |           |
| Pcs                  | 2         | 2         | 2          | 2          | 2          | 2                | 2                 | 2         | 2         | 2         | 2         |
| Ø                    | <b>60</b> | <b>65</b> | <b>68</b>  | <b>70</b>  | <b>76</b>  | <b>79</b>        |                   |           |           |           |           |
| Pcs                  | 2         | 2         | 2          | 2          | 2          | 2                |                   |           |           |           |           |
| Ref.<br>1645<br>1646 | <b>83</b> | <b>89</b> | <b>102</b> | <b>H3A</b> | <b>H4A</b> | <b>BR<br/>90</b> | <b>BR<br/>110</b> |           |           |           |           |
| Pcs                  | 1         | 1         | 1          | 3          | 3          | 3                | 3                 |           |           |           |           |

Ref. 4995 - Nº Art. 22220: €

# Sets 1645

## SIERRA CORONA METAL / MADERA

METAL / WOOD Hole Saw  
Trépan MÉTAL / BOIS

Mod. 1  
7 Pcs

Básico  
Basic  
Essentiel



Mod. 2  
14 Pcs

Completo  
Complete  
Complet



Cont. Ø mm

Nº Art.

€

25-35-43-51-64-H3A-H4A

18232

Cont. Ø mm

Nº Art.

€

19-22-25-32-35-38-43-  
51-57-60-64-76  
H3A-H4A

18234

Mod. 3  
12 Pcs

Electricista  
Electrician  
Electricien



Mod. 4  
8 Pcs

Básico 2  
Basic 2  
Essentiel 2



Cont. Ø mm

Nº Art.

€

16-20-25-32-40-43-  
51-60-63-65-H3A-H4A

18235

Cont. Ø mm

Nº Art.

€

16-20-25-32-  
40-51-H3A-H4A

58617

Mod. 5  
11 Pcs

Electricista 2  
Electrician 2  
Electricien 2



Mod. 6  
8 Pcs

Electricista 3  
Electrician 3  
Electricien 3



Cont. Ø mm

Nº Art.

€

16-20-27-32-40-43-  
48-51-64-H3A-H4A

58618

Cont. Ø mm

Nº Art.

€

22-35-51-57-  
68-76-H3A-H4A

66889

Ref. **1647**

## CORONA MULTIPRO

MULTIPRO Hole Saw

Trépan MULTIPRO



|                                                    |  |                                                     |                  |
|----------------------------------------------------|--|-----------------------------------------------------|------------------|
| <b>Diente MD</b><br>Carbide Tipped<br>Dent Carbure |  |                                                     |                  |
|                                                    |  | <b>Fibra Vidrio</b><br>Fiberglass<br>Fibre de verre | <b>DM</b><br>MDF |
| <b>Aceros</b><br>Steel<br>Aciers                   |  | <b>Plásticos</b><br>Plastics<br>Plastiques          |                  |
| <b>Madera</b><br>Wood<br>Bois                      |  | <b>Ladrillo</b><br>Brick<br>Brique                  |                  |
| <b>Cerámica</b><br>Ceramics<br>Céramique           |  |                                                     |                  |



| D<br>mm   | L<br>mm | Pulgadas<br>Inches / Pouces | Z |  | Nº<br>Art. | € | D<br>mm    | L<br>mm | Pulgadas<br>Inches / Pouces | Z |  | Nº<br>Art. | € |
|-----------|---------|-----------------------------|---|--|------------|---|------------|---------|-----------------------------|---|--|------------|---|
| <b>16</b> | 57      | 5/8                         | 1 |  | 31855      |   | <b>65</b>  | 57      | 2 3/16                      | 3 |  | 30710      |   |
| <b>19</b> | 57      | 3/4                         | 1 |  | 30691      |   | <b>67</b>  | 57      | 2 5/8                       | 3 |  | 30711      |   |
| <b>20</b> | 57      | 25/32                       | 1 |  | 30692      |   | <b>68</b>  | 57      | 2 11/16                     | 3 |  | 30712      |   |
| <b>22</b> | 57      | 7/8                         | 1 |  | 30693      |   | <b>70</b>  | 57      | 2 3/4                       | 3 |  | 30713      |   |
| <b>24</b> | 57      | 15/16                       | 1 |  | 31856      |   | <b>73</b>  | 57      | 2 7/8                       | 3 |  | 30714      |   |
| <b>25</b> | 57      | 1                           | 1 |  | 30694      |   | <b>76</b>  | 57      | 3                           | 4 |  | 30715      |   |
| <b>27</b> | 57      | 1 1/16                      | 1 |  | 30695      |   | <b>79</b>  | 57      | 3 1/8                       | 4 |  | 30716      |   |
| <b>29</b> | 57      | 1 1/8                       | 1 |  | 30696      |   | <b>83</b>  | 57      | 3 1/4                       | 4 |  | 30717      |   |
| <b>30</b> | 57      | 1 3/16                      | 1 |  | 30697      |   | <b>86</b>  | 57      | 3 3/8                       | 4 |  | 30718      |   |
| <b>32</b> | 57      | 1 1/4                       | 1 |  | 30698      |   | <b>89</b>  | 57      | 3 1/2                       | 4 |  | 30719      |   |
| <b>35</b> | 57      | 1 3/8                       | 1 |  | 30699      |   | <b>92</b>  | 57      | 3 5/8                       | 4 |  | 30720      |   |
| <b>38</b> | 57      | 1 1/2                       | 1 |  | 30700      |   | <b>95</b>  | 57      | 3 3/4                       | 4 |  | 30721      |   |
| <b>40</b> | 57      | 1 9/16                      | 2 |  | 30701      |   | <b>98</b>  | 57      | 3 7/8                       | 4 |  | 30722      |   |
| <b>41</b> | 57      | 1 5/8                       | 2 |  | 30702      |   | <b>102</b> | 57      | 4                           | 5 |  | 30723      |   |
| <b>43</b> | 57      | 1 11/16                     | 2 |  | 31857      |   | <b>105</b> | 57      | 4 1/8                       | 5 |  | 30724      |   |
| <b>44</b> | 57      | 1 3/4                       | 2 |  | 30703      |   | <b>108</b> | 57      | 4 1/4                       | 5 |  | 30725      |   |
| <b>48</b> | 57      | 1 7/8                       | 2 |  | 30704      |   | <b>111</b> | 57      | 4 3/8                       | 5 |  | 30726      |   |
| <b>51</b> | 57      | 2                           | 2 |  | 30705      |   | <b>114</b> | 57      | 4 1/2                       | 5 |  | 30727      |   |
| <b>54</b> | 57      | 2 1/8                       | 2 |  | 30706      |   | <b>121</b> | 57      | 4 3/4                       | 5 |  | 30728      |   |
| <b>57</b> | 57      | 2 1/4                       | 2 |  | 30707      |   | <b>127</b> | 57      | 5                           | 5 |  | 30729      |   |
| <b>60</b> | 57      | 2 3/8                       | 3 |  | 30708      |   | <b>140</b> | 57      | 5 1/2                       | 5 |  | 30730      |   |
| <b>64</b> | 57      | 2 1/2                       | 3 |  | 30709      |   | <b>152</b> | 57      | 6                           | 5 |  | 30731      |   |
|           |         |                             |   |  |            |   | <b>160</b> | 57      | 6 5/16                      | 5 |  | 30732      |   |

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Línea 1m  
**1647**

## CORONA MULTIPRO

MULTIPRO Hole Saw  
Trépan MULTIPRO



| Ø   | 25 | 29 | 30 | 35 | 40 | 51 | 60 | 67 | 68 | 73 | 76 | H3C | H4C | BRC 110 |
|-----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|---------|
| Pcs | 2  | 2  | 2  | 2  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 3   | 3   | 3       |

Ref. 4995 - Nº Art. 72151: €

Display  
**60**

## CORONA MULTIPRO

MULTIPRO Hole Saw  
Trépan MULTIPRO



| Ø    | 16 | 19 | 20  | 22  | 24  | 25      | 27      | 29 | 30 | 32 | 35 |
|------|----|----|-----|-----|-----|---------|---------|----|----|----|----|
| Pcs  | 2  | 2  | 2   | 2   | 2   | 2       | 2       | 2  | 2  | 2  | 2  |
| Ref. | 38 | 40 | 41  | 43  | 44  | 48      | 51      | 54 |    |    |    |
| 1647 | 2  | 2  | 2   | 1   | 1   | 1       | 1       | 1  | 1  | 1  | 1  |
| Ø    | 60 | 65 | 68  | 70  | 76  |         |         | 79 |    |    |    |
| Pcs  | 1  | 1  | 1   | 1   | 1   |         |         | 1  |    |    |    |
| Ref. | 83 | 89 | 102 | H3C | H4C | BRC 110 | BRC 110 |    |    |    |    |
| 1647 | 1  | 1  | 1   | 3   | 3   | 3       | 3       |    |    |    |    |
| 1646 |    |    |     |     |     |         |         |    |    |    |    |

Ref. 4995 - Nº Art. 32965: €



Ref. **1661**

## SIERRA CORONA DIENTE MD INTEGRAL

Carbide Teeth Core Drill  
Trépan denture carbure



**Diente MD**  
Carbide Tipped  
Dent Carbure



**Fundición**  
Cast Iron  
Fonte



**INOX**  
Stainless Steel  
Acier INOX

**INOX**  
Stainless Steel  
Acier INOX

**Fundición**  
Cast Iron  
Fonte

**Fibra Vidrio**  
Fiberglass  
Fibre de verre

**Plásticos**  
Plastics  
Plastiques

**Madera**  
Wood  
Bois

**Cerámica**  
Ceramics  
Céramique

| D<br>mm | L<br>mm | Pulgadas<br>Inches / Pouces | € | Nº<br>Art. |
|---------|---------|-----------------------------|---|------------|
| 19      | 31      | 3/4                         |   | 34311      |
| 22      | 31      | 7/8                         |   | 34312      |
| 25      | 31      | 1                           |   | 34313      |
| 29      | 31      | 1 1/8                       |   | 34314      |
| 32      | 31      | 1 1/4                       |   | 34315      |
| 35      | 31      | 1 3/8                       |   | 34316      |
| 38      | 31      | 1 1/2                       |   | 34317      |
| 44      | 31      | 1 3/4                       |   | 34318      |
| 48      | 31      | 1 7/8                       |   | 34319      |
| 51      | 31      | 2                           |   | 34320      |
| 54      | 31      | 2 1/8                       |   | 34321      |
| 57      | 31      | 2 1/4                       |   | 34322      |
| 60      | 31      | 2 3/8                       |   | 34323      |
| 64      | 31      | 2 1/2                       |   | 34324      |
| 67      | 31      | 2 5/8                       |   | 36831      |
| 70      | 31      | 2 3/4                       |   | 34325      |
| 76      | 31      | 3                           |   | 34326      |
| 83      | 31      | 3 1/4                       |   | 34327      |
| 86      | 31      | 3 3/8                       |   | 34328      |
| 89      | 31      | 3 1/2                       |   | 34329      |
| 95      | 31      | 3 3/4                       |   | 34330      |
| 102     | 31      | 4                           |   | 34331      |

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Ref. **1662**



## CORONA POLVO MD ELECTRODEPOSITADO

Electrodeposited Carbide Powder Core Drill Bit

Trépan Poudre carbure électrodéposé



**Polvo MD**  
Carbide Powder  
Poudre Carbure



Kevlar



**Fibra Vidrio**  
Fiberglass  
Fibre de verre

**Vidrio**  
Glass  
Verre

**Ladrillo**  
Brick  
Brique

**Cerámica**  
Ceramics  
Céramique

| D<br>mm    | L<br>mm | Pulgadas<br>Inches / Pouces |   | Nº<br>Art. | € |
|------------|---------|-----------------------------|---|------------|---|
| <b>16</b>  | 36      | 5/8                         | 1 | 34289      |   |
| <b>19</b>  | 36      | 3/4                         | 1 | 34290      |   |
| <b>20</b>  | 36      | 25/32                       | 1 | 34291      |   |
| <b>22</b>  | 36      | 7/8                         | 1 | 34292      |   |
| <b>25</b>  | 36      | 1                           | 1 | 34293      |   |
| <b>29</b>  | 36      | 1 1/8                       | 1 | 34294      |   |
| <b>32</b>  | 36      | 1 1/4                       | 1 | 34295      |   |
| <b>35</b>  | 36      | 1 3/8                       | 1 | 34296      |   |
| <b>38</b>  | 36      | 1 1/2                       | 1 | 34297      |   |
| <b>44</b>  | 36      | 1 3/4                       | 1 | 34298      |   |
| <b>48</b>  | 36      | 1 7/8                       | 1 | 34299      |   |
| <b>51</b>  | 36      | 2                           | 1 | 34300      |   |
| <b>54</b>  | 36      | 2 1/8                       | 1 | 34301      |   |
| <b>57</b>  | 36      | 2 1/4                       | 1 | 34302      |   |
| <b>60</b>  | 36      | 2 3/8                       | 1 | 34303      |   |
| <b>64</b>  | 36      | 2 1/2                       | 1 | 34304      |   |
| <b>70</b>  | 36      | 2 3/4                       | 1 | 34305      |   |
| <b>76</b>  | 36      | 3                           | 1 | 34306      |   |
| <b>83</b>  | 36      | 3 1/4                       | 1 | 34307      |   |
| <b>86</b>  | 36      | 3 3/8                       | 1 | 34308      |   |
| <b>95</b>  | 36      | 3 3/4                       | 1 | 34309      |   |
| <b>102</b> | 36      | 4                           | 1 | 34310      |   |

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# Ref. 1646

## HUSILLOS Y BROCAS CORONAS

Hole Saw Spindles & Drill Bits  
Arbres et forets trépans



HSS



| Mod. | d<br>mm | Corona<br>Hole Saw<br>Trépan mm |   | Nº<br>Art. | € |
|------|---------|---------------------------------|---|------------|---|
| H3A  | 9,52    | 14-30                           | 1 | 19602      |   |
| H4A  | 9,52    | 32-210                          | 1 | 19603      |   |



MD/HM  
TCT



| Mod. | d<br>mm | Corona<br>Hole Saw<br>Trépan mm |   | Nº<br>Art. | € |
|------|---------|---------------------------------|---|------------|---|
| H3C  | 9,52    | 14-30                           | 1 | 39848      |   |
| H4C  | 9,52    | 32-210                          | 1 | 39849      |   |



MD/HM  
TCT



| Mod.       | d           | Corona<br>Hole Saw<br>Trépan mm |   | Nº<br>Art. | € |
|------------|-------------|---------------------------------|---|------------|---|
| (New!) H3S | SDS<br>plus | 14-30                           | 1 | 13724      |   |
| (New!) H4S | SDS<br>plus | 32-210                          | 1 | 13725      |   |



| Mod.    | D<br>mm | L<br>mm |   | Nº<br>Art. | € |
|---------|---------|---------|---|------------|---|
| BR 90   | 6,35    | 90      | 1 | 19605      |   |
| BR 110  | 6,35    | 110     | 1 | 30019      |   |
| BRC 110 | 7,00    | 110     | 1 | 39850      |   |

# Ref. 1642

## ALARGADOR

Extension  
Rallonge



| Cap. | d<br>mm | L<br>mm |   | Nº<br>Art. | € |
|------|---------|---------|---|------------|---|
| 9,52 | 11,00   | 300     | 1 | 69878      |   |



## ELECCIÓN HUSILLOS Y BROCAS CORONAS

Hole Saw Spindles & Drill Bits Choice

Choix des arbres et forets trépans



**INOX**  
Stain-  
less



**• • •**

H3A

H4A

\* BR 90 / BR 110

H3C

H4C

H3S

H4S

\* BR 110



Ref. 1647



Ref. 1645



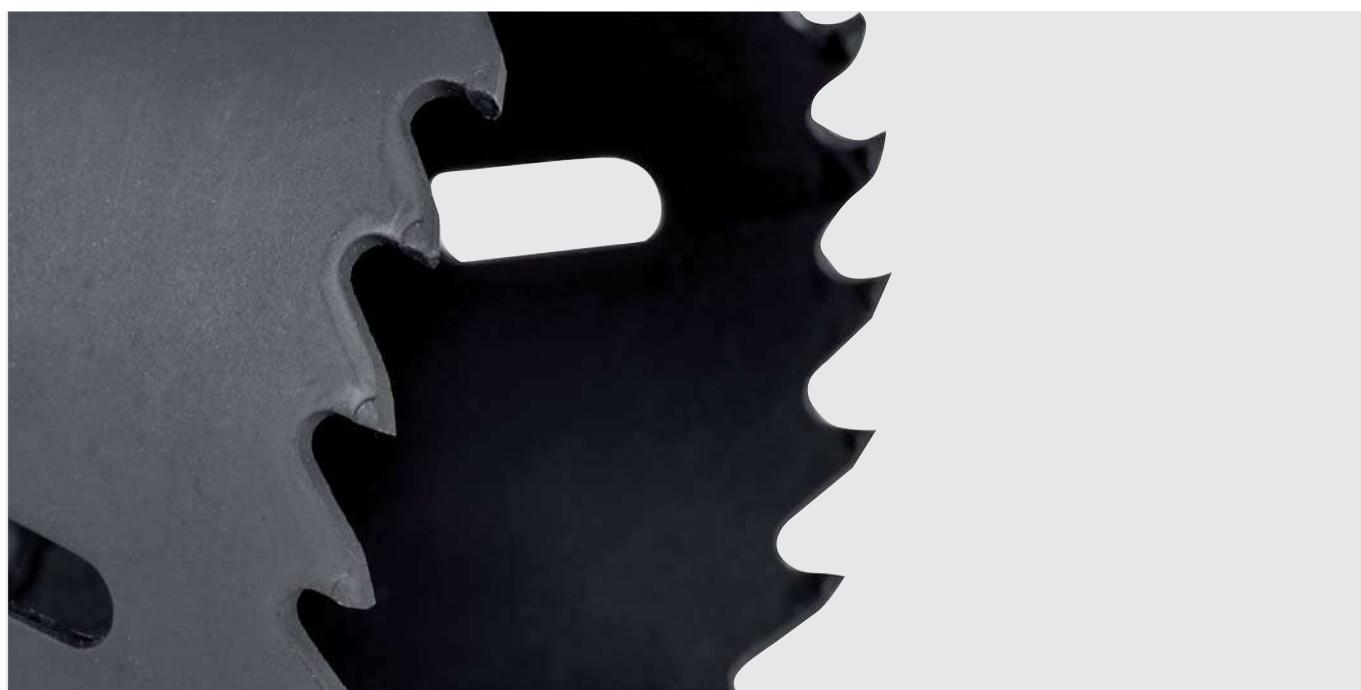
Ref. 1661



Ref. 1662



\* BRC 110



Ref. **1860**

## CORONA DIAMANTE HORMIGÓN

CONCRETE Diamond Core Bit

Trépan diamant BÉTON



**Hormigón Reforzado**  
Reinforced Concrete  
Béton armé

**Hormigón**  
Concrete  
Béton

**Hormigón Bloque**  
Concrete Block  
Parpaing

| D<br>mm    | Rosca<br>Thread | L<br>mm | Nº<br>Segmentos | Alto<br>Height<br>Segmento<br>mm | Largo<br>Length<br>Segmento<br>mm | Ancho<br>Width<br>Segmento<br>mm | Kw*     |   | Nº<br>Art. | € |
|------------|-----------------|---------|-----------------|----------------------------------|-----------------------------------|----------------------------------|---------|---|------------|---|
| <b>32</b>  | 1" 1/4          | 300     | 3               | 9                                | 24                                | 4                                | 0,7>1,2 | 1 | 34333      |   |
| <b>42</b>  | 1" 1/4          | 300     | 4               | 9                                | 24                                | 4                                | 0,7>1,2 | 1 | 34334      |   |
| <b>52</b>  | 1" 1/4          | 450     | 5               | 9                                | 24                                | 4                                | 0,7>1,2 | 1 | 34335      |   |
| <b>62</b>  | 1" 1/4          | 450     | 6               | 9                                | 24                                | 4                                | 0,7>1,2 | 1 | 34336      |   |
| <b>72</b>  | 1" 1/4          | 450     | 6               | 9                                | 24                                | 4                                | 0,7>1,2 | 1 | 34337      |   |
| <b>82</b>  | 1" 1/4          | 450     | 7               | 9                                | 24                                | 4                                | 1,2>2,3 | 1 | 34338      |   |
| <b>92</b>  | 1" 1/4          | 450     | 8               | 9                                | 24                                | 4                                | 1,2>2,3 | 1 | 34339      |   |
| <b>102</b> | 1" 1/4          | 450     | 9               | 9                                | 24                                | 4                                | 1,2>2,3 | 1 | 34340      |   |
| <b>112</b> | 1" 1/4          | 450     | 9               | 9                                | 24                                | 4                                | 1,2>2,3 | 1 | 34341      |   |
| <b>122</b> | 1" 1/4          | 450     | 10              | 9                                | 24                                | 4                                | 1,2>2,3 | 1 | 34342      |   |
| <b>127</b> | 1" 1/4          | 450     | 11              | 9                                | 24                                | 4                                | 1,2>2,3 | 1 | 34332      |   |
| <b>132</b> | 1" 1/4          | 450     | 11              | 9                                | 24                                | 5                                | 1,2>2,3 | 1 | 34343      |   |
| <b>142</b> | 1" 1/4          | 450     | 12              | 9                                | 24                                | 5                                | 1,2>2,3 | 1 | 34344      |   |
| <b>152</b> | 1" 1/4          | 450     | 12              | 9                                | 24                                | 5                                | 1,2>2,3 | 1 | 34357      |   |
| <b>162</b> | 1" 1/4          | 450     | 12              | 9                                | 24                                | 5                                | 2,3>3,9 | 1 | 34345      |   |
| <b>172</b> | 1" 1/4          | 450     | 13              | 9                                | 24                                | 5                                | 2,3>3,9 | 1 | 34346      |   |
| <b>182</b> | 1" 1/4          | 450     | 13              | 9                                | 24                                | 5                                | 2,3>3,9 | 1 | 34347      |   |
| <b>200</b> | 1" 1/4          | 450     | 15              | 9                                | 24                                | 5                                | 2,3>3,9 | 1 | 34349      |   |
| <b>225</b> | 1" 1/4          | 450     | 15              | 9                                | 24                                | 5                                | 2,3>3,9 | 1 | 34350      |   |
| <b>250</b> | 1" 1/4          | 450     | 16              | 9                                | 24                                | 5                                | 2,3>3,9 | 1 | 34351      |   |
| <b>300</b> | 1" 1/4          | 450     | 17              | 9                                | 24                                | 5                                | 2,3>3,9 | 1 | 34352      |   |

\*Aplicar esta potencia y usar mucha agua para un rendimiento óptimo de la corona

\*Use this power and plenty of water for an optimum performance of the core bit

\*Appliquez cette puissance et utilisez de l'eau pour rendement optimale des trépans



# DISCOS DIAMANTE

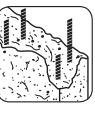
Diamond Cutting Blades

Disques diamant

## CUADRO USO DISCOS DIAMANTE

Diamond Disc Use Table

Tableau utilisation disques diamant

|                                                                                     | Ref. 1851                                                                                                         | Ref. 1852 | Ref. 1853 | Ref. 1854 | Ref. 1855 | Ref. 1857 | Ref. 1858 | Ref. 1861 | Ref. 1862 | Ref. 1863 | Ref. 1864 |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|    | Hormigón Reforzado<br>Reinforced Concrete<br>Béton armé                                                           |           |           | ●         |           |           |           |           |           |           |           |
|  | Hormigón Seco<br>Dry Concrete<br>Béton sec                                                                        | ○         | ○         | ●         |           |           | ○         |           |           |           |           |
|  | Hormigón Duro<br>Hard Concrete<br>Béton dur                                                                       |           | ○         | ●         |           |           | ○         |           |           |           |           |
|  | Hormigón Blando<br>Soft Concrete<br>Béton tendre                                                                  | ○         | ○         |           | ○         |           |           |           |           |           |           |
|  | Hormigón Universal<br>Universal Concrete<br>Béton universel                                                       | ○         | ●         | ●         |           | ●         | ●         | ○         |           |           |           |
|  | Hormigón Silex<br>Flint Concrete<br>Béton silex                                                                   |           |           |           | ○         |           |           | ○         |           |           |           |
|  | Ladrillo<br>Brick<br>Brique                                                                                       | ○         | ○         |           |           |           |           |           |           |           |           |
|  | Granito Duro<br>Hard Granite<br>Granite dur                                                                       |           |           | ○         | ○         |           |           |           | ●         | ○         | ●         |
|  | Granito Medio<br>Medium Granite<br>Granite moyen                                                                  |           | ○         |           |           |           | ○         |           |           | ●         |           |
|  | Granito Blando<br>Soft Granite<br>Granite tendre                                                                  | ○         | ○         |           |           |           | ○         |           |           |           |           |
|  | Mármol<br>Marble<br>Marbre                                                                                        |           |           |           |           |           |           |           | ●         |           |           |
|  | Piedra Natural / Dura<br>Natural / Hard Stone<br>Pierre naturelle / Dure                                          |           |           |           | ○         |           |           |           | ○         | ○         |           |
|  | Asfalto, Abrasivos<br>Asphalt, Abrasives<br>Asphalte, Abrasifs                                                    |           |           |           |           | ●         |           |           |           |           |           |
|  | Porcelánico, Gres,<br>Azulejo Duro<br>Porcelain, Stoneware,<br>Hard Tile<br>Porcelaine, Céramique,<br>Carreau dur |           |           | ●         |           |           |           |           |           |           |           |

Ref. **1851**



## SEGMENTADO RÁPIDO OBRA GENERAL

General Works **Fast** Segmented  
Segmenté rapide général travaux



**Hormigón Universal**  
Universal Concrete  
Béton universel

**Hormigón Seco**  
Dry Concrete  
Béton sec

**Hormigón Blando**  
Soft Concrete  
Béton tendre

**Granito Blando**  
Soft Granite  
Granite tendre

**Ladrillo**  
Brick  
Brique

| D<br>mm    | d1<br>mm | Nº<br>Segmentos | Alto<br>Segmento<br>mm | Ancho<br>Segmento<br>mm | Grosor Acero<br>Steel Thickness<br>mm | Max<br>R.P.M. | €       |
|------------|----------|-----------------|------------------------|-------------------------|---------------------------------------|---------------|---------|
|            |          |                 |                        |                         |                                       | Nº<br>Art.    |         |
| <b>115</b> | 22,23    | 8               | <b>12</b>              | 2,40                    | 1,4                                   | 13300         | 1 60720 |
| <b>125</b> | 22,23    | 9               | <b>12</b>              | 2,40                    | 1,4                                   | 12250         | 1 60722 |
| <b>180</b> | 22,23    | 14              | <b>12</b>              | 2,60                    | 1,6                                   | 8500          | 1 67886 |
| <b>230</b> | 22,23    | 16              | <b>12</b>              | 2,80                    | 1,8                                   | 6650          | 1 60723 |
| <b>300</b> | 25,40    | 22              | <b>12</b>              | 3,20                    | 2,2                                   | 6400          | 1 60724 |
| <b>350</b> | 25,40    | 24              | <b>12</b>              | 3,20                    | 2,2                                   | 5500          | 1 60725 |

Ref. **1852**



## SEGMENTADO LÁSER PROFESIONAL ALTO RENDIMIENTO

Long Life Professional Segmented Laser  
Professionnel segmenté laser haut rendement



**Hormigón Universal**  
Universal Concrete  
Béton universel

**Hormigón Seco**  
Dry Concrete  
Béton sec

**Hormigón Duro**  
Hard Concrete  
Béton dur

**Granito Medio**  
Medium Granite  
Granite moyen

**Granito Blando**  
Soft Granite  
Granite tendre

**Ladrillo**  
Brick  
Brique

| D<br>mm    | d1<br>mm | Nº<br>Segmentos | Alto<br>Segmento<br>mm | Ancho<br>Segmento<br>mm | Grosor Acero<br>Steel Thickness<br>mm | Max<br>R.P.M. | €       |
|------------|----------|-----------------|------------------------|-------------------------|---------------------------------------|---------------|---------|
|            |          |                 |                        |                         |                                       | Nº<br>Art.    |         |
| <b>115</b> | 22,23    | 9               | 10                     | 2,20                    | 1,4                                   | 13300         | 1 64078 |
| <b>125</b> | 22,23    | 10              | 10                     | 2,20                    | 1,4                                   | 12250         | 1 60729 |
| <b>150</b> | 22,23    | 12              | 10                     | 2,20                    | 1,4                                   | 10200         | 1 60730 |
| <b>180</b> | 22,23    | 14              | 10                     | 2,40                    | 1,6                                   | 8500          | 1 68880 |
| <b>230</b> | 22,23    | 16              | 10                     | 2,60                    | 1,8                                   | 6650          | 1 60731 |
| <b>300</b> | 20,00    | 20              | 10                     | 3,00                    | 2,2                                   | 6400          | 1 68883 |
| <b>350</b> | 20,00    | 20              | 10                     | 3,20                    | 2,4                                   | 5500          | 1 68889 |
| <b>350</b> | 25,40    | 23              | 10                     | 3,20                    | 2,4                                   | 5500          | 1 68890 |

Ref. **1858**

## TURBO OBRA GENERAL

General Works Turbo  
Général travaux turbo



**Hormigón Universal**  
Universal Concrete  
Béton universel

**Hormigón Seco**  
Dry Concrete  
Béton sec

**Hormigón Duro**  
Hard Concrete  
Béton dur

**Granito Medio**  
Medium Granite  
Granite moyen

**Granito Blando**  
Soft Granite  
Granite tendre

| D<br>mm    | d1<br>mm | Nº<br>Segmentos | Alto<br>Segmento<br>mm | Ancho<br>Segmento<br>mm | Grosor Acero<br>Steel Thickness<br>mm | Max<br>R.P.M. | €       |
|------------|----------|-----------------|------------------------|-------------------------|---------------------------------------|---------------|---------|
| <b>115</b> | 22,23    | 9               | 10                     | 2,20                    | 1,4                                   | 13300         | 1 64080 |
| <b>125</b> | 22,23    | 10              | 10                     | 2,20                    | 1,4                                   | 12250         | 1 60726 |
| <b>150</b> | 22,23    | 12              | 10                     | 2,20                    | 1,4                                   | 10200         | 1 60727 |
| <b>180</b> | 22,23    | 14              | 10                     | 2,40                    | 1,6                                   | 8500          | 1 69565 |
| <b>230</b> | 22,23    | 16              | 10                     | 2,60                    | 1,8                                   | 6650          | 1 60728 |

Ref. **1854**

## SOLDADO LASER FORMA N

N Form Laser Welded  
Soudé laser forme N



**Hormigón Reforzado**  
Reinforced Concrete  
Béton armé

**Hormigón Seco**  
Dry Concrete  
Béton sec

**Hormigón Duro**  
Hard Concrete  
Béton dur

**Hormigón Universal**  
Universal Concrete  
Béton universel

**Granito Duro**  
Hard Granite  
Granite dur

**Piedra Natural**  
Natural Stone  
Pierre naturelle

| D<br>mm    | d1<br>mm | Nº<br>Segmentos | Alto<br>Segmento<br>mm | Ancho<br>Segmento<br>mm | Grosor Acero<br>Steel Thickness<br>mm | Max<br>R.P.M. | €       |
|------------|----------|-----------------|------------------------|-------------------------|---------------------------------------|---------------|---------|
| <b>125</b> | 22,23    | 10              | 10                     | 2,20                    | 1,4                                   | 12250         | 1 60740 |
| <b>180</b> | 22,23    | 14              | 10                     | 2,40                    | 1,6                                   | 8500          | 1 68895 |
| <b>230</b> | 22,23    | 15              | 10                     | 2,60                    | 1,8                                   | 6650          | 1 60741 |
| <b>300</b> | 25,40    | 20              | 10                     | 3,00                    | 2,2                                   | 6400          | 1 60742 |
| <b>350</b> | 25,40    | 23              | 10                     | 3,00                    | 2,2                                   | 5500          | 1 60743 |

Ref. **1853**

## TURBO PORCELÁNICO

PORCELAIN Turbo  
Turbo PORCELAINE



**Porcelánico, Gres, Azulejo Duro**  
Porcelain, Stoneware, Hard Tile  
Porcelaine, Céramique, Carreau dur

**Granito Duro**  
Hard Granite  
Granite dur

| D<br>mm    | d1<br>mm | Nº<br>Segmentos | Alto<br>Segmento<br>mm | Ancho<br>Segmento<br>mm | Grosor Acero<br>Steel Thickness<br>mm | Max<br>R.P.M. |   | Nº<br>Art. | € |
|------------|----------|-----------------|------------------------|-------------------------|---------------------------------------|---------------|---|------------|---|
| <b>115</b> | 22,23    | Continuo        | 11                     | 1,30                    | 1,0                                   | 13300         | 1 | 60732      |   |
| <b>125</b> | 22,23    | Continuo        | 11                     | 1,30                    | 1,0                                   | 12250         | 1 | 60739      |   |
| <b>230</b> | 22,23    | Continuo        | 11                     | 1,50                    | 1,2                                   | 6650          | 1 | 66552      |   |

Ref. **1855**

## SOLDADO LASER ASFALTO

ASPHALT Laser Welded  
Soudé Laser ASPHALTE



**Asfalto, Abrasivos**  
Asphalt, Abrasives  
Asphalte, Abrasifs

**Hormigón Blando**  
Soft Concrete  
Béton tendre

**Gran protección del segmento para evitar el corte inferior**  
No undercutting by strong wedge protection  
Forte protection du segment pour éviter la coupe inférieure.

| D<br>mm    | d1<br>mm | Nº<br>Segmentos | Alto<br>Segmento<br>mm | Ancho<br>Segmento<br>mm | Grosor Acero<br>Steel Thickness<br>mm | Max<br>R.P.M. |   | Nº<br>Art. | € |
|------------|----------|-----------------|------------------------|-------------------------|---------------------------------------|---------------|---|------------|---|
| <b>300</b> | 25,40    | 18              | 10                     | 3,20                    | 2,2                                   | 6400          | 1 | 60744      |   |
| <b>350</b> | 25,40    | 21              | 10                     | 3,20                    | 2,2                                   | 5500          | 1 | 60745      |   |
| <b>400</b> | 25,40    | 24              | 10                     | 3,40                    | 2,4                                   | 4800          | 1 | 60747      |   |

Ref. **1861**



## HORMIGON FORMA DOBLE COPA

Double Rowed Cup Form Concrete  
Béton forme double coupe



**Hormigón Universal**  
Universal Concrete  
Béton universel

**Hormigón Silex**  
Flint Concrete  
Béton Silex

| D<br>mm | d1<br>mm | Nº<br>Segmentos | Alto<br>Segmento<br>mm | Ancho<br>Segmento<br>mm | Grosor Acero<br>Steel Thickness<br>mm | Max<br>R.P.M. | €          |
|---------|----------|-----------------|------------------------|-------------------------|---------------------------------------|---------------|------------|
| 115     | 22,23    | 12              | 8                      | 5,00                    | 3,0                                   | 13300         | 1          |
| 125     | 22,23    | 14              | 8                      | 5,00                    | 3,0                                   | 12250         | 1          |
| 180     | 22,23    | 28              | 8                      | 5,00                    | 3,0                                   | 8500          | 1          |
|         |          |                 |                        |                         |                                       |               | Nº<br>Art. |
|         |          |                 |                        |                         |                                       |               | 69473      |
|         |          |                 |                        |                         |                                       |               | 69475      |
|         |          |                 |                        |                         |                                       |               | 69477      |

Ref. **1857**



## TOP HORMIGÓN FORMA COPA Y ALTO RENDIMIENTO

Long Life Y Cup Form Concrete  
Top béton forme coupe Y haut rendement



**Hormigón Universal**  
Universal Concrete  
Béton universel

**Hormigón Silex**  
Flint Concrete  
Béton Silex

**Segmentos auto-afilados, superficie fina, tolerancia precisa, eficiente extracción del polvo**  
Self-sharpened segments, smooth surface, accurate tolerance, efficient dust exhausting  
Ségments auto-affûtés, Surface fine, tolerance précise, extraction efficace de la poussière

| D<br>mm | d1<br>mm | Nº<br>Segmentos | Grosor Acero<br>Steel Thickness<br>mm | Max<br>R.P.M. | € |            |
|---------|----------|-----------------|---------------------------------------|---------------|---|------------|
|         |          |                 |                                       |               |   | Nº<br>Art. |
| 115     | 22,23    | 8               | 3,0                                   | 13300         | 1 | 60749      |
| 125     | 22,23    | 8               | 3,0                                   | 12250         | 1 | 60750      |
| 180     | 22,23    | 12              | 3,0                                   | 8500          | 1 | 64082      |

Ref. **1864**

## GRANITO FORMA COPA "Y" DE ALUMINIO

Aluminium Cup Wheel for **Granite**  
**Granite** forme coupe "Y" aluminium



**Granito Duro**  
**Hard Granite**  
**Granite Dur**

**Cuerpo de aluminio, filo amolado fino**  
**Aluminium body, smooth edge grinding**  
**Corps en aluminium, filet meulé fin**



| D<br>mm    | d1<br>mm | Alto<br>Height<br>Haut<br>Segmento<br>mm | Ancho<br>Width<br>Largeur<br>Segmento<br>mm | Grosor Acero<br>Steel Thickness<br>Épaisseur acier<br>mm | Max<br>R.P.M. | Nº<br>Art. | €     |
|------------|----------|------------------------------------------|---------------------------------------------|----------------------------------------------------------|---------------|------------|-------|
| <b>100</b> | 22,23    | 20                                       | 7,30                                        | 5,5                                                      | 14500         | 1          | 69487 |

Ref. **1862**

## TURBO GRANITO / MÁRMOL

Turbo Granite / **Marble**  
Turbo granite / **marbre**



**Granito Duro**  
**Hard Granite**  
**Granite dur**

**Mármol**  
**Marble**  
**Marbre**

**Piedra Dura**  
**Hard Stone**  
**Pierre dure**



**Forma en ola, no descascarilla el material**  
**Wave shape, no wobbling during cutting**  
**Forme vaguée, matériel sans décorticage**

| D<br>mm    | d1<br>mm | Alto<br>Height<br>Haut<br>Segmento<br>mm | Ancho<br>Width<br>Largeur<br>Segmento<br>mm | Grosor Acero<br>Steel Thickness<br>Épaisseur acier<br>mm | Max<br>R.P.M. | Nº<br>Art. | €     |
|------------|----------|------------------------------------------|---------------------------------------------|----------------------------------------------------------|---------------|------------|-------|
| <b>115</b> | 22,23    | 7                                        | 2,20                                        | 1,2                                                      | 13300         | 1          | 69479 |
| <b>230</b> | 22,23    | 8                                        | 2,60                                        | 1,8                                                      | 6650          | 1          | 69481 |

Ref. **1863**

## LASER CANTERO

Laser Quarry  
Laser carrière



**Granito Duro**  
**Hard Granite**  
Granite dur

**Granito Medio**  
**Medium Granite**  
Granite moyen

**Piedra Dura**  
**Hard Stone**  
Pierre dure



**Corte estable y gran rendimiento**  
Stable cutting high performance  
Coupe stable et haute performance

| D<br>mm    | d1<br>mm | Nº<br>Segmentos | Alto<br>Segmento<br>mm | Ancho<br>Segmento<br>mm | Grosor Acero<br>Steel Thickness<br>mm | Max<br>R.P.M. | €       |
|------------|----------|-----------------|------------------------|-------------------------|---------------------------------------|---------------|---------|
| <b>230</b> | 22,23    | 15              | 12                     | 3,20                    | 2,2                                   | 6650          | 1 69485 |

Ref. **1849**

## AMARRE RÁPIDO AMOLADORA

Quick Lock Grinding Tool  
Attachement rapide meuleuse



Mod. N° Art. €  
1 55946



New!

6 Pcs  
Nº  
Art. €  
24140

# Ref. 8309

## CUTER HOJA PARTIBLE 9 MM

9 mm Snap-Off Blade Box Cutter  
Couteau à lames rétractables 9 mm



**MOD. 9**

Zamak  
5



| Mod. | Hoja<br>Blade / Lame<br>mm | Nº<br>Art. | €     |
|------|----------------------------|------------|-------|
| 9    | 9                          | 1          | 34238 |

Cúter con cuerpo metálico con mecanismo de bloqueo y almacén para cuchillas de repuesto. Incluye 3 cuchillas.

Box Cutter with metal body, locking mechanism and storage for spare blades. Includes 3 blades.

Couteau à lames avec corps en métal, mécanisme de verrouillage et dépôt pour les lames de rechange. Comprend 3 lames.

# Ref. 8318

## CUTER HOJA PARTIBLE 18 MM

18 mm Snap-Off Blade Box Cutter  
Couteau à lames rétractables 18 mm

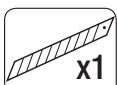


New!

**MOD. 18-ERG**



| Mod.   | Hoja<br>Blade / Lame<br>mm | Nº<br>Art. | €     |
|--------|----------------------------|------------|-------|
| 18-ERG | 18                         | 1          | 83359 |



- Cuchilla de 15 Segmentos
- 15 segment blade
- Lame à 15 segments



- Ergonómico. ABS para mejor agarre
- Ergonomic. ABS for better grip
- Ergonomique. ABS pour une meilleure prise



- Portacuchillas inoxidable
- Stainless blade holder
- Porte-lames inoxydable



**Box-Pallet  
8320**

24 uds

Nº  
Art. €  
10177

**MOD. 18**

Zamak  
5



| Mod. | Hoja<br>Blade / Lame<br>mm | Nº<br>Art. | €     |
|------|----------------------------|------------|-------|
| 18   | 18                         | 1          | 34239 |

Cúter con cuerpo metálico con mecanismo de bloqueo y almacén para cuchillas de repuesto. Incluye 3 cuchillas.

Box Cutter with metal body, locking mechanism and storage for spare blades. Includes 3 blades.

Couteau à lames avec corps en métal, mécanisme de verrouillage et dépôt pour les lames de rechange. Comprend 3 lames.

Ref. **8319**

## CUTER HOJA SEGURIDAD 19 MM

19 mm Security Blade Box Cutter  
Couteau à lame sécurité 19 mm

**New!** MOD. 19S-RET



| Mod.    | Hoja<br>Blade / Lame<br>mm | Nº<br>Art. | €     |
|---------|----------------------------|------------|-------|
| 19S-RET | 59x19x0,61                 | 1          | 83360 |

- Recogida semiautomática de la cuchilla después del corte, evitando lesiones.
- After cutting, semi-automatic Blade collection, avoiding injuries.
- Ramassage semi-automatique de la lame après la coupe, pour éviter des blesseures
- Mango ergonómico
- Ergonomic handle
- Poignée ergonomique
- Cambio de cuchilla rápido y sencillo. Incluye 3 cuchillas
- Quick Blade change. Includes 3 blades.
- Changement de lame rapide et facile. Comprend 3 lames.



**Box-Pallet  
8320**

6 uds

Nº  
Art. €

10174

## MOD. 19S



Zamak  
5

| Mod. | Hoja<br>Blade / Lame<br>mm | Nº<br>Art. | €     |
|------|----------------------------|------------|-------|
| 19S  | 60x19x0,65                 | 1          | 34240 |

Cúter metálico con almacén para cuchillas de repuesto.

Metal Box Cutter with storage for spare blades.

Couteau à lames en métal avec dépôt pour les lames de rechange.



Ref. 8309

Ref. 8318

Ref. 8319

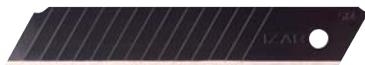
# Ref. 8331

## UCHILLAS REPUESTO

Spare Blades

Lames de rechange

| Mod. | Hoja<br>mm | Blade / Lame | Nº<br>Art. | €<br>1 ud. |
|------|------------|--------------|------------|------------|
| 9    | 9          | 10           | 34241      |            |
| 18   | 18         | 10           | 34242      |            |
| 19S  | 60x19x0,65 | 10           | 34243      |            |



New!

| Mod.   | Hoja<br>mm | Blade / Lame | Nº<br>Art. | €<br>1 ud. |
|--------|------------|--------------|------------|------------|
| 18-ERG | 18         | 10           | 83765      |            |

New!



Box-Pallet  
8320

20 uds

| Nº<br>Art. | € |
|------------|---|
| 12676      |   |



New!

| Mod.        | Hoja<br>mm | Blade / Lame | Nº<br>Art. | €<br>1 ud. |
|-------------|------------|--------------|------------|------------|
| 19S-RET-TRA | 59x19x0,61 | 10           | 83766      |            |

New!



Box-Pallet  
8320

20 uds

| Nº<br>Art. | € |
|------------|---|
| 12677      |   |



New!

| Mod.        | Hoja<br>mm | Blade / Lame | Nº<br>Art. | €<br>1 ud. |
|-------------|------------|--------------|------------|------------|
| 19S-RET-GAN | Gancho     | 10           | 83767      |            |

New!



Box-Pallet  
8320

20 uds

| Nº<br>Art. | € |
|------------|---|
| 12682      |   |



## MADERA

Wood

Bois

### BROCAS

Drill Bits

Forets

268

### FRESAS

Router Cutters

Fraises

285



# BROCAS

Drill Bits

Forets

Ref. **1641**

## BROCA PUNTA CENTRAR PRO

PRO Drill Bit

Foret auto-centreur PRO



- Óptima evacuación de viruta
- Más rápida
- Mejor centrado
- Mayor durabilidad
- Mayor precisión
- Agujeros limpios

- Optimum chipping-off
- Faster
- Better centering
- Longer tool life
- Higher precision
- Clean holes

- Evacuation optimale des copeaux
- Plus rapide
- Meilleur autocentrage
- Vie plus longue de l'outil
- Meilleure precision
- Trous plus propres



Maderas Duras  
Hard Wood  
Bois dur

Maderas Tropicales  
Tropical Wood  
Bois Tropical

Contrachapado  
Plywood  
Contreplaqué

| D<br>mm | L<br>mm | I<br>mm | d<br>mm | cube | Nº<br>Art. | € |
|---------|---------|---------|---------|------|------------|---|
| 3       | 61      | 33      | 3       | 1    | 34450      |   |
| 4       | 75      | 43      | 4       | 1    | 34451      |   |
| 5       | 86      | 52      | 5       | 1    | 34452      |   |
| 6       | 93      | 57      | 6       | 1    | 34453      |   |
| 8       | 117     | 75      | 8       | 1    | 34454      |   |
| 10      | 133     | 87      | 10      | 1    | 34455      |   |

Línea 33 cm  
**1641**

## BROCA PUNTA CENTRAR PRO

PRO Drill Bit

Foret auto-centreur PRO



| ø   | 3 | 4 | 5 | 6 | 8 | 10 |
|-----|---|---|---|---|---|----|
| Pcs | 5 | 5 | 5 | 5 | 5 | 5  |

Ref. 4995 - Nº Art. 71044: €



## Display 52 Mixto PRO



### BROCAS MULTI INOX + PARED PRO + MADERA PRO

Multi-Stainless + Concrete Pro + **Wood Pro** Drill Bits  
Forets Multi INOX + Béton Pro + **Bois Pro**

| Ref.      | Ø   | 3 | 4 | 5  | 6   | 7 | 8   | 9 | 10 | 12 | 14 |
|-----------|-----|---|---|----|-----|---|-----|---|----|----|----|
|           | Pcs | 5 | 5 | 10 | 10  | 5 | 5   | 3 | 3  | 3  | 3  |
| Ref. 1886 | Ø   | 3 | 3 | 4  | 4   | 5 | 5   | 6 | 6  | 8  | 10 |
|           | Pcs | 3 | 2 | 3  | 2   | 3 | 2   | 3 | 2  | 5  | 5  |
| Ref. 1641 | Ø   | 1 | 2 | 3  | 3,5 | 4 | 4,5 | 5 | 6  | 8  | 10 |
|           | Pcs | 2 | 2 | 3  | 3   | 5 | 5   | 5 | 5  | 5  | 3  |
| Ref. 1004 | Ø   |   |   |    |     |   |     |   |    |    |    |

Ref. 4995 - Nº Art. 68575: €

## Display 55

### BROCAS MADERA PRO: PALA Y 3 PUNTAS

Wood Pro Drill Bits: Flat & Center Point  
Forets Bois Pro: plate et auto-centreur



|           |     |    |    |    |    |    |    |
|-----------|-----|----|----|----|----|----|----|
| Ref.      | Ø   | 22 | 24 | 25 | 26 | 28 | 30 |
| 1651      | Pcs | 5  | 5  | 5  | 5  | 5  | 5  |
| Ref. 1651 | Ø   | 10 | 12 | 14 | 16 | 18 | 20 |
|           | Pcs | 5  | 5  | 5  | 5  | 5  | 5  |
| Ref. 1641 | Ø   | 3  | 3  | 4  | 4  | 5  | 5  |
|           | Pcs | 5  | 5  | 5  | 5  | 5  | 5  |
| Ref. 1641 | Ø   |    |    |    |    |    |    |

Ref. 4995 - Nº Art. 70074: €

## Display 58

### BROCAS MADERA PRO 3 PUNTAS

Center Point Wood Pro Drill Bits  
Forets Bois Pro auto-centreur



|      |     |   |   |   |   |   |   |   |   |   |    |
|------|-----|---|---|---|---|---|---|---|---|---|----|
| Ref. | Ø   | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 8 | 10 |
| 1641 | Pcs | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5  |

Ref. 4995 - Nº Art. 70088: €

# Ref. 1640

## BROCA PUNTA CENTRAR

Center Point Drill Bit  
Foret auto-centrour



CrV

Maderas Blandas  
Soft Wood  
Bois tendre

| D<br>mm | L<br>mm | I<br>mm | d<br>mm |   | Nº<br>Art. | € |
|---------|---------|---------|---------|---|------------|---|
| 3       | 61      | 33      | 3,00    | 1 | 18426      |   |
| 4       | 75      | 43      | 4,00    | 1 | 18427      |   |
| 5       | 86      | 52      | 5,00    | 1 | 18429      |   |
| 6       | 97      | 60      | 6,00    | 1 | 18430      |   |
| 7       | 109     | 69      | 7,00    | 1 | 18432      |   |
| 8       | 117     | 75      | 8,00    | 1 | 18433      |   |
| 9       | 125     | 80      | 9,00    | 1 | 18435      |   |
| 10      | 133     | 87      | 10,00   | 1 | 18436      |   |

| D<br>mm | L<br>mm | I<br>mm | d<br>mm |   | Nº<br>Art. | € |
|---------|---------|---------|---------|---|------------|---|
| 11      | 142     | 89      | 9,95    | 1 | 30380      |   |
| 12      | 151     | 96      | 9,95    | 1 | 18438      |   |
| 13      | 151     | 96      | 9,95    | 1 | 30381      |   |
| 14      | 151     | 97      | 9,95    | 1 | 18439      |   |
| 15      | 160     | 100     | 9,95    | 1 | 30382      |   |
| 16      | 160     | 100     | 9,95    | 1 | 30383      |   |
| 18      | 180     | 120     | 9,95    | 1 | 17860      |   |
| 20      | 200     | 130     | 9,95    | 1 | 17861      |   |

Larga / Long / Longue

| D<br>mm | L<br>mm | I<br>mm | d<br>mm |   | Nº<br>Art. | € |
|---------|---------|---------|---------|---|------------|---|
| 6       | 250     | 200     | 6,00    | 1 | 55969      |   |
| 8       | 250     | 200     | 8,00    | 1 | 55970      |   |
| 10      | 250     | 200     | 10,00   | 1 | 55971      |   |
| 12      | 250     | 200     | 9,95    | 1 | 55972      |   |



Doble Blister  
ref. M640  
pag. 379

# Línea 1m 1640

## BROCA PUNTA CENTRAR

Center Point Drill Bit  
Foret auto-centrour



31 cm

| Ø   | 3  | 4  | 5  | 6  | 7  | 8  | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 18 | 20 |
|-----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|
| Pcs | 10 | 10 | 10 | 10 | 10 | 10 | 5 | 5  | 5  | 5  | 5  | 5  | 5  | 3  | 3  | 3  |

Ref. 4995 - Nº Art. 71047: €



## Display 10

### BROCAS MADERA PALA Y 3 PUNTAS

Flat & Center Point Wood Drill Bits  
Forets Bois mèches plates & 3-pointes



|                         | Ø   | 22 | 24 | 25 | 26 | 28 | 30 | 32 |
|-------------------------|-----|----|----|----|----|----|----|----|
| Ref.<br>1650<br>(L 152) | Pcs | 7  | 5  | 5  | 5  | 5  | 5  | 5  |
| Ref.<br>1650<br>(L 152) | Pcs | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
| Ref.<br>1640            | Pcs | 3  | 4  | 5  | 6  | 8  | 9  | 10 |
|                         |     | 10 | 10 | 10 | 10 | 10 | 5  | 5  |
|                         |     |    |    |    |    | 5  | 5  | 5  |

Ref. 4995 - Nº Art. 22184: €

## Display 51

### BROCAS METAL + PARED + MADERA

Metal + Masonry + Wood Drill Bits  
Forets Métal + Maçonnerie + Bois



|              | Ø   | 3  | 4  | 5  | 6   | 7  | 8   | 9  | 10 | 12 | 14 |
|--------------|-----|----|----|----|-----|----|-----|----|----|----|----|
| Ref.<br>1880 | Pcs | 10 | 10 | 10 | 10  | 10 | 10  | 5  | 5  | 5  | 5  |
| Ref.<br>1640 | Pcs | 10 | 10 | 10 | 10  | 10 | 5   | 5  | 5  | 5  | 5  |
| Ref.<br>1001 | Pcs | 1  | 2  | 3  | 3,5 | 4  | 4,5 | 5  | 6  | 8  | 10 |
|              |     | 10 | 10 | 10 | 10  | 10 | 10  | 10 | 5  | 5  | 3  |

Ref. 4995 - Nº Art. 68572: €



## Display 59

### BROCAS SPEED POINT + PARED + MADERA

Speed Point + Masonry + Wood Drill Bits  
Forets Speed Point + Maçonnerie + Bois



|                            |          |         |         |           |         |           |         |         |         |         |         |
|----------------------------|----------|---------|---------|-----------|---------|-----------|---------|---------|---------|---------|---------|
| <b>Ref.</b><br><b>1880</b> | Ø<br>Pcs | 3<br>10 | 4<br>10 | 5<br>10   | 6<br>10 | 7<br>10   | 8<br>10 | 9<br>5  | 10<br>5 | 12<br>5 | 14<br>5 |
| <b>Ref.</b><br><b>1640</b> | Ø<br>Pcs | 3<br>10 | 4<br>10 | 5<br>10   | 6<br>10 | 8<br>10   | 9<br>5  | 10<br>5 | 12<br>5 | 14<br>5 | 16<br>5 |
| <b>Ref.</b><br><b>1002</b> | Ø<br>Pcs | 2<br>10 | 3<br>10 | 3,5<br>10 | 4<br>10 | 4,5<br>10 | 5<br>10 | 6<br>10 | 7<br>5  | 8<br>5  | 10<br>3 |

Ref. 4995 - Nº Art. 70099: €

## Display 23

### JUEGOS CASSETTE MADERA Y CONSTRUCCIÓN

Wood & Construction Cassette Sets  
Jeux cassette Bois & Construction



|                                                       |     |                                                                    |                                                                               |                                                                 |                                                                 |
|-------------------------------------------------------|-----|--------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|
| <b>Constr.</b><br><b>Madera</b><br><b>Wood / Bois</b> | Pcs | <b>Ref. 1485</b><br><b>Pared</b><br>Masonry / Béton<br>5 Pcs.<br>5 | <b>Ref. 1486</b><br><b>Pared Pro</b><br>Masonry Pro /Béton Pro<br>5 Pcs.<br>5 | <b>Ref. 1435</b><br><b>Madera</b><br>Wood / Bois<br>5 Pcs.<br>5 | <b>Ref. 1438</b><br><b>Madera</b><br>Wood / Bois<br>8 Pcs.<br>5 |
|-------------------------------------------------------|-----|--------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|

|                |     |                                                                    |                                                                               |                                                    |
|----------------|-----|--------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------|
| <b>Constr.</b> | Pcs | <b>Ref. 1488</b><br><b>Pared</b><br>Masonry / Béton<br>8 Pcs.<br>5 | <b>Ref. 1487</b><br><b>Pared Pro</b><br>Masonry Pro /Béton Pro<br>8 Pcs.<br>5 | <b>Ref. 1494</b><br><b>SDS plus</b><br>4 Pcs.<br>3 |
|----------------|-----|--------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------|

Ref. 4995 - Nº Art. 22372: €

# Sets 1640

## BROCA PUNTA CENTRAR

Center Point Drill Bit  
Foret auto-centrour



Set 1435

5 Pcs

| Cont.         | Ø     | Nº Art. | € |
|---------------|-------|---------|---|
| 4-5-6-8-10 mm | 10 mm | 30223   |   |



Set 1438

8 Pcs

| Cont.               | Ø     | Nº Art. | € |
|---------------------|-------|---------|---|
| 3-4-5-6-7-8-9-10 mm | 10 mm | 30226   |   |



Set 1460

9 Pcs

| Cont.                                                                                  | Ø | Nº Art. | € |
|----------------------------------------------------------------------------------------|---|---------|---|
| 3 Pcs Metal: 5-6-8<br>3 Pcs Madera/Wood/Bois: 5-6-8<br>3 Pcs Pared/Masonry/Béton 5-6-8 |   | 55610   |   |

## Línea 33 cm 14S1

### SETS BROCAS METAL, PARED PRO, PARED, MADERA

Metal, Concrete, Masonry, Wood Sets  
Jeux Métal, Béton, Maçonnerie, Bois



|       | Metal<br>Metal<br>Métal<br><b>1462-1010</b> | Pared Pro<br>Concrete<br>Béton<br><b>1486</b> | Pared<br>Masonry<br>Maçonnerie<br><b>1485</b> | Madera<br>Wood<br>Bois<br><b>1435</b> |
|-------|---------------------------------------------|-----------------------------------------------|-----------------------------------------------|---------------------------------------|
| Ref.  | 1462-1010                                   | 1486                                          | 1485                                          | 1435                                  |
| Diam. | 2-3-4-5-6-8 mm                              | 4-5-6-8-10 mm                                 | 4-5-6-8-10 mm                                 | 4-5-6-8-10 mm                         |
| Pcs.  | 5                                           | 5                                             | 5                                             | 5                                     |

Ref. 4995 - Nº Art. 72193: €



Ref. **1651**

## BROCA PLANA GRAN RENDIMIENTO

Heavy Duty Flat Bit

Mèche plate haut rendement



**Maderas Blandas**  
Soft Wood  
Bois tendre



| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €     |
|---------|---------|---------|---------|------------|-------|
| 6,00    | 6,35    | 152     | 38      | 1          | 56019 |
| 8,00    | 6,35    | 152     | 38      | 1          | 56021 |
| 10,00   | 6,35    | 152     | 38      | 1          | 56022 |
| 12,00   | 6,35    | 152     | 42      | 1          | 56023 |
| 13,00   | 6,35    | 152     | 42      | 1          | 56024 |
| 14,00   | 6,35    | 152     | 42      | 1          | 56025 |
| 16,00   | 6,35    | 152     | 42      | 1          | 56026 |
| 18,00   | 6,35    | 152     | 42      | 1          | 56028 |
| 19,00   | 6,35    | 152     | 42      | 1          | 56029 |
| 20,00   | 6,35    | 152     | 42      | 1          | 56030 |
| 22,00   | 6,35    | 152     | 42      | 1          | 56031 |
| 24,00   | 6,35    | 152     | 46      | 1          | 56032 |
| 25,00   | 6,35    | 152     | 46      | 1          | 56033 |
| 26,00   | 6,35    | 152     | 46      | 1          | 56034 |
| 28,00   | 6,35    | 152     | 46      | 1          | 56035 |
| 30,00   | 6,35    | 152     | 46      | 1          | 56036 |
| 32,00   | 6,35    | 152     | 46      | 1          | 56037 |
| 35,00   | 6,35    | 152     | 46      | 1          | 56038 |
| 38,00   | 6,35    | 152     | 46      | 1          | 56040 |
| 40,00   | 6,35    | 152     | 46      | 1          | 56042 |

Set **1651**

8 Pcs

| Cont.<br>Ø                     | Nº<br>Art. | € |
|--------------------------------|------------|---|
| 12-16-18-20-22-<br>25-28-32 mm | 57449      |   |



Línea 1m  
**1651**

## BROCA PLANA GRAN RENDIMIENTO

Heavy Duty Flat Bit

Mèche plate haut rendement



| Ø   | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 25 | 26 | 28 | 30 | 32 | 35 | 38 | L305 |
|-----|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| Pcs | 8 | 8 | 8  | 8  | 8  | 8  | 8  | 8  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 1  |      |

Ref. 4995 - Nº Art. 72169: €

Ref. **1653**

## ALARGADOR

Extension  
Rallonge



| L<br>mm | d<br>mm | D<br>mm | Nº<br>Art. | €     |
|---------|---------|---------|------------|-------|
| 305     | 6,35    | 15,85   | 1          | 23982 |

## Display 55



### BROCAS MADERA PRO: PALA Y 3 PUNTAS

Wood Pro Drill Bits: Flat & Center Point  
Forets Bois Pro: Plate et auto-centreur

|             |          |           |           |           |           |           |           |
|-------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>Ref.</b> | <b>Ø</b> | <b>22</b> | <b>24</b> | <b>25</b> | <b>26</b> | <b>28</b> | <b>30</b> |
| <b>1651</b> | Pcs      | 5         | 5         | 5         | 5         | 5         | 5         |
| <b>Ref.</b> | <b>Ø</b> | <b>10</b> | <b>12</b> | <b>14</b> | <b>16</b> | <b>18</b> | <b>20</b> |
| <b>1651</b> | Pcs      | 5         | 5         | 5         | 5         | 5         | 5         |
| <b>Ref.</b> | <b>Ø</b> | <b>3</b>  | <b>3</b>  | <b>4</b>  | <b>4</b>  | <b>5</b>  | <b>6</b>  |
| <b>1641</b> | Pcs      | 5         | 5         | 5         | 5         | 5         | 5         |
|             |          |           |           |           |           |           |           |
|             |          |           |           |           |           |           |           |

Ref. 4995 - Nº Art. 70074: €

## Display 56



### BROCAS MADERA PRO: PALA

Wood Pro Drill Bits: Flat  
Forets Bois Pro: Plate

|             |          |           |           |           |           |           |           |
|-------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>Ref.</b> | <b>Ø</b> | <b>10</b> | <b>12</b> | <b>14</b> | <b>16</b> | <b>18</b> | <b>20</b> |
| <b>1651</b> | Pcs      | 10        | 10        | 10        | 10        | 10        | 10        |

Ref. 4995 - Nº Art. 70078: €



## Display 57



### BROCAS MADERA PRO: PALA

Wood Pro Drill Bits: Flat  
Forets Bois Pro: Plate

|             |          |           |           |           |           |           |           |
|-------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>Ref.</b> | <b>Ø</b> | <b>22</b> | <b>24</b> | <b>25</b> | <b>26</b> | <b>28</b> | <b>30</b> |
| <b>1651</b> | Pcs      | 5         | 5         | 5         | 5         | 5         | 5         |

Ref. 4995 - Nº Art. 70084: €

Ref. **1650**

## BROCA PLANA

Flat Bit

Mèche plate



Pala  
Flat  
Plate



Maderas Blandas  
Soft Wood  
Bois tendre



| D<br>mm | L<br>mm | I<br>mm | d<br>mm | Nº<br>Art. | €     |
|---------|---------|---------|---------|------------|-------|
| 6       | 152     | 38      | 6,35    | 1          | 30384 |
| 8       | 152     | 38      | 6,35    | 1          | 30385 |
| 10      | 152     | 38      | 6,35    | 1          | 30386 |
| 12      | 152     | 42      | 6,35    | 1          | 30387 |
| 13      | 152     | 42      | 6,35    | 1          | 55988 |
| 14      | 152     | 42      | 6,35    | 1          | 18457 |
| 16      | 152     | 42      | 6,35    | 1          | 18459 |
| 17      | 152     | 42      | 6,35    | 1          | 55989 |
| 18      | 152     | 42      | 6,35    | 1          | 18460 |
| 19      | 152     | 42      | 6,35    | 1          | 55990 |
| 20      | 152     | 42      | 6,35    | 1          | 18462 |
| 22      | 152     | 42      | 6,35    | 1          | 18463 |
| 24      | 152     | 46      | 6,35    | 1          | 18465 |
| 25      | 152     | 46      | 6,35    | 1          | 18466 |
| 26      | 152     | 46      | 6,35    | 1          | 18468 |
| 28      | 152     | 46      | 6,35    | 1          | 18469 |
| 30      | 152     | 46      | 6,35    | 1          | 18471 |
| 32      | 152     | 46      | 6,35    | 1          | 18472 |
| 35      | 152     | 46      | 6,35    | 1          | 55992 |
| 36      | 152     | 46      | 6,35    | 1          | 30389 |
| 38      | 152     | 46      | 6,35    | 1          | 30390 |
| 40      | 152     | 46      | 6,35    | 1          | 17864 |

| D<br>mm | L<br>mm | I<br>mm | d<br>mm | Nº<br>Art. | €     |
|---------|---------|---------|---------|------------|-------|
| 6       | 400     | 38      | 6,35    | 1          | 55973 |
| 8       | 400     | 38      | 6,35    | 1          | 55974 |
| 10      | 400     | 38      | 6,35    | 1          | 55975 |
| 12      | 400     | 42      | 6,35    | 1          | 55976 |
| 14      | 400     | 42      | 6,35    | 1          | 55977 |
| 16      | 400     | 42      | 6,35    | 1          | 55978 |
| 18      | 400     | 42      | 6,35    | 1          | 55979 |
| 20      | 400     | 42      | 6,35    | 1          | 55980 |
| 22      | 400     | 42      | 6,35    | 1          | 55981 |
| 24      | 400     | 46      | 6,35    | 1          | 55982 |
| 25      | 400     | 46      | 6,35    | 1          | 55983 |
| 28      | 400     | 46      | 6,35    | 1          | 55984 |
| 30      | 400     | 46      | 6,35    | 1          | 55985 |
| 32      | 400     | 46      | 6,35    | 1          | 55986 |
| 35      | 400     | 46      | 6,35    | 1          | 55987 |



Set **1650**

8 Pcs

| Cont.<br>Ø                     | Nº<br>Art. | € |
|--------------------------------|------------|---|
| 12-16-18-20-22-<br>25-28-32 mm | 66378      |   |



# Línea 1m 1650

## BROCA PLANA

Flat Bit

Mèche plate



| Ø   | 6  | 8  | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 25 | 26 | 28 | 30 | 32 | 36 | 38 | L305 |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| Pcs | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 1  |      |

Ref. 4995 - Nº Art. 71051: €

# Display 10

## BROCAS MADERA PALA Y 3 PUNTAS

Flat & Center Point Wood Drill Bits

Forets Bois mèches plates & 3-pointes



|                                |          |    |    |    |    |    |    |    |    |    |    |
|--------------------------------|----------|----|----|----|----|----|----|----|----|----|----|
| Ref.<br><b>1650</b><br>(L 152) | Ø<br>Pcs | 22 | 24 | 25 | 26 | 28 | 30 | 32 |    |    |    |
|                                |          | 7  | 5  | 5  | 5  | 5  | 5  | 5  |    |    |    |
| Ref.<br><b>1650</b><br>(L 152) | Ø<br>Pcs | 6  | 8  | 10 | 12 | 14 | 16 | 18 | 20 |    |    |
|                                |          | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |    |    |
| Ref.<br><b>1640</b>            | Ø<br>Pcs | 3  | 4  | 5  | 6  | 8  | 9  | 10 | 12 | 14 | 16 |
|                                |          | 10 | 10 | 10 | 10 | 10 | 5  | 5  | 5  | 5  | 5  |

Ref. 4995 - Nº Art. 22184: €



# Ref. 1655

## BROCA ESPIRAL TORNILLO EN LA PUNTA

Screw-Point Auger Drill Bit

Foret spirale vis en pointe



CrV

Maderas Duras  
Hard Wood  
Bois dur

|      | D<br>mm | L<br>mm | I<br>mm | d<br>mm | Nº<br>Art. | €     |
|------|---------|---------|---------|---------|------------|-------|
| New! | 3       | 230     | 155     | 2,5     | 1          | 19792 |
| New! | 4       | 230     | 155     | 3,5     | 1          | 19793 |
| New! | 5       | 230     | 155     | 4,5     | 1          | 19794 |
|      | 6       | 230     | 155     | 5,5     | 1          | 19139 |
|      | 7       | 230     | 155     | 6,5     | 1          | 66809 |
|      | 8       | 230     | 155     | 7,5     | 1          | 19145 |
|      | 9       | 230     | 155     | 8,5     | 1          | 66811 |
|      | 10      | 230     | 155     | 9,5     | 1          | 19148 |
|      | 11      | 230     | 155     | 10,5    | 1          | 66812 |
|      | 12      | 230     | 155     | 11,5    | 1          | 19154 |
|      | 13      | 230     | 155     | 12,5    | 1          | 66813 |
|      | 14      | 230     | 155     | 12,5    | 1          | 19172 |
|      | 16      | 230     | 155     | 12,5    | 1          | 19187 |
|      | 18      | 230     | 155     | 12,5    | 1          | 19202 |
|      | 20      | 230     | 155     | 12,5    | 1          | 19211 |
|      | 22      | 230     | 155     | 12,5    | 1          | 19226 |
|      | 23      | 230     | 155     | 12,5    | 1          | 66814 |
|      | 24      | 230     | 155     | 12,5    | 1          | 19235 |
|      | 25      | 230     | 155     | 12,5    | 1          | 66815 |
|      | 26      | 230     | 155     | 12,5    | 1          | 27304 |
|      | 28      | 230     | 155     | 12,5    | 1          | 27604 |
|      | 30      | 230     | 155     | 12,5    | 1          | 27630 |
|      | 32      | 230     | 155     | 12,5    | 1          | 29040 |

|  | D<br>mm | L<br>mm | I<br>mm | d<br>mm | Nº<br>Art. | €     |
|--|---------|---------|---------|---------|------------|-------|
|  | 6       | 460     | 385     | 5,5     | 1          | 60683 |
|  | 8       | 460     | 385     | 7,5     | 1          | 19082 |
|  | 10      | 460     | 385     | 9,5     | 1          | 19151 |
|  | 12      | 460     | 385     | 11,5    | 1          | 19163 |
|  | 14      | 460     | 385     | 12,5    | 1          | 19181 |
|  | 16      | 460     | 385     | 12,5    | 1          | 19193 |
|  | 18      | 460     | 385     | 12,5    | 1          | 19205 |
|  | 20      | 460     | 385     | 12,5    | 1          | 19217 |
|  | 22      | 460     | 385     | 12,5    | 1          | 19229 |
|  | 24      | 460     | 385     | 12,5    | 1          | 19238 |
|  | 26      | 460     | 385     | 12,5    | 1          | 27603 |
|  | 28      | 460     | 385     | 12,5    | 1          | 27605 |
|  | 30      | 460     | 385     | 12,5    | 1          | 27680 |
|  | 32      | 460     | 385     | 12,5    | 1          | 29041 |

|  | D<br>mm | L<br>mm | I<br>mm | d<br>mm | Nº<br>Art. | €     |
|--|---------|---------|---------|---------|------------|-------|
|  | 8       | 600     | 530     | 7,5     | 1          | 67750 |
|  | 10      | 600     | 530     | 9,5     | 1          | 15811 |
|  | 12      | 600     | 530     | 11,5    | 1          | 15813 |
|  | 14      | 600     | 530     | 12,5    | 1          | 15816 |
|  | 16      | 600     | 530     | 12,5    | 1          | 15817 |
|  | 18      | 600     | 530     | 12,5    | 1          | 15823 |
|  | 20      | 600     | 530     | 12,5    | 1          | 15828 |
|  | 22      | 600     | 530     | 12,5    | 1          | 15855 |

New!

Set 1655

9 Pcs

| Cont.<br>Ø                | Nº Art. | € |
|---------------------------|---------|---|
| 4-5-6-8-10-12-14-16-18-mm | 19795   |   |



Línea 1m  
1655

## BROCA ESPIRAL TORNILLO EN LA PUNTA

Screw-Point Auger Drill Bit

Foret spirale vis en pointe



| Ø   | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 16 | 18 | 20 | 22 | 23 | 24 | 25 | 26 | 28 | 30 |
|-----|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Pcs | 2 | 2 | 2 | 2 | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 1  | 1  | 1  | 1  | 1  | 1  |    |

Ref. 4995 - Nº Art. 72171

€



## Display 11



### BROCA ESPIRAL TORNILLO EN LA PUNTA

Screw-Point Auger Drill Bit  
Foret spirale vis en pointe

|     |                   |                   |                   |                   |                   |                   |                   |                   |
|-----|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Ø   | <b>18</b><br>L460 | <b>20</b><br>L460 | <b>22</b><br>L460 | <b>24</b><br>L460 | <b>26</b><br>L460 | <b>28</b><br>L460 | <b>30</b><br>L460 | <b>32</b><br>L460 |
| Pcs | 2                 | 2                 | 1                 | 1                 | 1                 | 1                 | 1                 | 1                 |
| Ø   | <b>26</b><br>L230 | <b>28</b><br>L230 | <b>30</b><br>L230 | <b>32</b><br>L230 | <b>10</b><br>L460 | <b>12</b><br>L460 | <b>14</b><br>L460 | <b>16</b><br>L460 |
| Pcs | 1                 | 1                 | 1                 | 1                 | 2                 | 2                 | 2                 | 2                 |
| Ø   | <b>10</b><br>L230 | <b>12</b><br>L230 | <b>14</b><br>L230 | <b>16</b><br>L230 | <b>18</b><br>L230 | <b>20</b><br>L230 | <b>22</b><br>L230 | <b>24</b><br>L230 |
| Pcs | 2                 | 2                 | 2                 | 2                 | 2                 | 2                 | 1                 | 1                 |

Ref. 4995 - Nº Art. 22307: €

## Display 38



|     |                   |                   |                   |                   |                   |                   |                   |                   |
|-----|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Ø   | <b>10</b><br>L230 | <b>12</b><br>L230 | <b>14</b><br>L230 | <b>16</b><br>L230 | <b>18</b><br>L230 | <b>20</b><br>L230 | <b>22</b><br>L230 | <b>24</b><br>L230 |
| Pcs | 2                 | 2                 | 2                 | 2                 | 2                 | 2                 | 1                 | 1                 |

Ref. 4995 - Nº Art. 22624: €

## Display 39



|     |                   |                   |                   |                   |                   |                   |                   |                   |
|-----|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Ø   | <b>26</b><br>L230 | <b>28</b><br>L230 | <b>30</b><br>L230 | <b>32</b><br>L230 | <b>10</b><br>L460 | <b>12</b><br>L460 | <b>14</b><br>L460 | <b>16</b><br>L460 |
| Pcs | 1                 | 1                 | 1                 | 1                 | 2                 | 2                 | 2                 | 2                 |

Ref. 4995 - Nº Art. 22626: €

## Display 40



|     |                   |                   |                   |                   |                   |                   |                   |                   |
|-----|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Ø   | <b>18</b><br>L460 | <b>20</b><br>L460 | <b>22</b><br>L460 | <b>24</b><br>L460 | <b>26</b><br>L460 | <b>28</b><br>L460 | <b>30</b><br>L460 | <b>32</b><br>L460 |
| Pcs | 2                 | 2                 | 1                 | 1                 | 1                 | 1                 | 1                 | 1                 |

Ref. 4995 - Nº Art. 22627: €

# Ref. 1644

## BROCA ENCOFRADO MADERA SDS PLUS

SDS PLUS WOOD Cavity Drill Bit

Foret coffrage BOIS SDS PLUS



SDS  
plus



Aceros  
Steel  
Aciers

Madera  
Wood  
Bois

| D<br>mm | L<br>mm | I<br>mm | 📦 | Nº<br>Art. | € |
|---------|---------|---------|---|------------|---|
| 10      | 400     | 87      | 1 | 15447      |   |
| 12      | 400     | 100     | 1 | 15450      |   |
| 14      | 400     | 100     | 1 | 15453      |   |
| 16      | 400     | 100     | 1 | 15460      |   |
| 18      | 400     | 100     | 1 | 15507      |   |
| 20      | 400     | 100     | 1 | 15576      |   |
| 22      | 400     | 100     | 1 | 15579      |   |
| 24      | 400     | 100     | 1 | 15582      |   |
| 26      | 400     | 100     | 1 | 15603      |   |
| 28      | 400     | 100     | 1 | 15621      |   |
| 30      | 400     | 100     | 1 | 15627      |   |

| D<br>mm | L<br>mm | I<br>mm | 📦 | Nº<br>Art. | € |
|---------|---------|---------|---|------------|---|
| 10      | 600     | 87      | 1 | 15660      |   |
| 12      | 600     | 100     | 1 | 15669      |   |
| 14      | 600     | 100     | 1 | 15780      |   |
| 16      | 600     | 100     | 1 | 15781      |   |
| 18      | 600     | 100     | 1 | 15783      |   |
| 20      | 600     | 100     | 1 | 15784      |   |
| 22      | 600     | 100     | 1 | 15793      |   |
| 24      | 600     | 100     | 1 | 15799      |   |
| 26      | 600     | 100     | 1 | 15801      |   |
| 28      | 600     | 100     | 1 | 15807      |   |
| 30      | 600     | 100     | 1 | 15808      |   |

## Línea 1m 1644

## BROCA ENCOFRADO MADERA SDS PLUS L400

L400 SDS PLUS WOOD Cavity Drill Bit

Foret coffrage BOIS SDS PLUS L400



| ∅   | 10<br>L400 | 12<br>L400 | 14<br>L400 | 16<br>L400 | 18<br>L400 | 20<br>L400 | 22<br>L400 | 24<br>L400 | 26<br>L400 | 28<br>L400 | 30<br>L400 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Pcs | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |

Ref. 4995 - Nº Art. 72174: €

## Línea 1m 1644

## BROCA ENCOFRADO MADERA SDS PLUS L600

L600 SDS PLUS WOOD Cavity Drill Bit

Foret coffrage BOIS SDS PLUS L600



| ∅   | 10<br>L600 | 12<br>L600 | 14<br>L600 | 16<br>L600 | 18<br>L600 | 20<br>L600 | 22<br>L600 | 24<br>L600 | 26<br>L600 | 28<br>L600 | 30<br>L600 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Pcs | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |

Ref. 4995 - Nº Art. 72175: €

Ref. **1643**

## BROCA ENCOFRADO MADERA

WOOD Cavity Drill Bit  
Foret coffrage BOIS



Aceros  
Steel  
Aciers

Madera  
Wood  
Bois



| D<br>mm | L<br>mm | I<br>mm | d<br>mm |   | Nº<br>Art. | € |
|---------|---------|---------|---------|---|------------|---|
| 6       | 400     | 57      | 5       | 1 | 23988      |   |
| 8       | 400     | 75      | 6       | 1 | 23989      |   |
| 10      | 400     | 87      | 8       | 1 | 23990      |   |
| 12      | 400     | 100     | 8       | 1 | 23991      |   |
| 14      | 400     | 100     | 8       | 1 | 23992      |   |
| 16      | 400     | 100     | 10      | 1 | 23993      |   |
| 18      | 400     | 100     | 10      | 1 | 23994      |   |
| 20      | 400     | 100     | 10      | 1 | 23995      |   |
| 22      | 400     | 100     | 10      | 1 | 23996      |   |
| 24      | 400     | 100     | 11      | 1 | 23997      |   |
| 26      | 400     | 100     | 11      | 1 | 23999      |   |
| 28      | 400     | 100     | 11      | 1 | 24000      |   |
| 30      | 400     | 100     | 11      | 1 | 24001      |   |

| D<br>mm | L<br>mm | I<br>mm | d<br>mm |   | Nº<br>Art. | € |
|---------|---------|---------|---------|---|------------|---|
| 6       | 600     | 57      | 5       | 1 | 24002      |   |
| 8       | 600     | 75      | 6       | 1 | 24004      |   |
| 10      | 600     | 87      | 8       | 1 | 24005      |   |
| 12      | 600     | 100     | 8       | 1 | 24006      |   |
| 14      | 600     | 100     | 8       | 1 | 24007      |   |
| 16      | 600     | 100     | 10      | 1 | 24008      |   |
| 18      | 600     | 100     | 10      | 1 | 24009      |   |
| 20      | 600     | 100     | 10      | 1 | 24010      |   |
| 22      | 600     | 100     | 10      | 1 | 24011      |   |
| 24      | 600     | 100     | 11      | 1 | 24012      |   |
| 26      | 600     | 100     | 11      | 1 | 24013      |   |
| 28      | 600     | 100     | 11      | 1 | 24014      |   |
| 30      | 600     | 100     | 11      | 1 | 24015      |   |

Display  
**41**



Display  
**42**



|     |           |           |            |            |            |            |            |            |
|-----|-----------|-----------|------------|------------|------------|------------|------------|------------|
| ∅   | 6<br>L400 | 8<br>L400 | 10<br>L400 | 12<br>L400 | 14<br>L400 | 16<br>L400 | 18<br>L400 | 20<br>L400 |
| Pcs | 2         | 2         | 2          | 2          | 2          | 2          | 2          | 2          |

Ref. 4995 - Nº Art. 22629:

€

|     |           |           |            |            |            |            |            |            |
|-----|-----------|-----------|------------|------------|------------|------------|------------|------------|
| ∅   | 6<br>L600 | 8<br>L600 | 10<br>L600 | 12<br>L600 | 14<br>L600 | 16<br>L600 | 18<br>L600 | 20<br>L600 |
| Pcs | 2         | 2         | 2          | 2          | 2          | 2          | 2          | 2          |

Ref. 4995 - Nº Art. 22630:

€

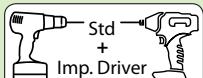
**Ref. 1621****BROCA MADERA**

Wood Drill Bit

Foret Bois



CrV

DIN E6.3  
1/4"Maderas Blandas  
Soft Wood  
Bois tendre

| D<br>mm | L<br>mm | I<br>mm | d<br>mm | Nº<br>Art. | €     |
|---------|---------|---------|---------|------------|-------|
| 3,00    | 64      | 32      | 6,35    | 1          | 56002 |
| 4,00    | 74      | 40      | 6,35    | 1          | 56004 |
| 5,00    | 85      | 49      | 6,35    | 1          | 56005 |
| 6,00    | 89      | 57      | 6,35    | 1          | 56006 |
| 8,00    | 90      | 55      | 6,35    | 1          | 56008 |

**Línea 33 cm  
1621****BROCA MADERA**

Wood Drill Bit

Foret Bois



|     |   |   |   |   |   |
|-----|---|---|---|---|---|
| Ø   | 3 | 4 | 5 | 6 | 8 |
| Pcs | 5 | 5 | 5 | 5 | 5 |

Ref. 4995 - Nº Art. 72201: €

**Ref. 1461****SET BROCAS MANGO HEXAGONAL 1/4" Y PUNTAS DE ATORNILLAR**

Hexagonal Shank Drill Bit and Screwdriver Bit Set

Jeu de forets hexagonales et embouts vissage



6 Sets

Nº  
Art. €  
19291

Set 17 Pcs

| Nº<br>Art. | € |
|------------|---|
| 81601      |   |

Brocas Madera  
Wood Drill Bits  
Forets Bois  
3- 4 - 5 - 6 mmd mm: 6,35  
PH  
d mm: 6,35  
PH1  
PH2  
PH3d mm: 6,35  
PZ  
d mm: 6,35  
PZ1  
PZ2  
PZ3d mm: 6,35  
Tx  
T10  
T15  
T20  
T25  
T30  
T40Adapt. Quick-Lock  
INOX/Stainless  
L mm: 60 - d mm: 6,35

# Display 54

## BROCAS METAL + PARED + MADERA

Metal + Masonry + Wood Drill Bits  
Forets Métal + Maçonnerie + Bois



| Ref. 1611 |    |    |      |     |    |     |   |   |
|-----------|----|----|------|-----|----|-----|---|---|
| Ø         | 2  | 3  | 3,25 | 3,5 | 4  | 5   | 6 | 8 |
| Pcs       | 3  | 3  | 3    | 3   | 3  | 3   | 3 | 3 |
| Ref. 1610 |    |    |      |     |    |     |   |   |
| Ø         | M3 | M4 | M5   | M6  | M8 | M10 | 4 | 5 |
| Pcs       | 2  | 2  | 2    | 2   | 2  | 2   | 3 | 3 |

| Ref. 1601 |   |   |    | Ref. 1621 |   |   |   |   |
|-----------|---|---|----|-----------|---|---|---|---|
| Ø         | 6 | 8 | 10 | 3         | 4 | 5 | 6 | 8 |
| Pcs       | 3 | 3 | 3  | 3         | 3 | 3 | 3 | 3 |

Ref. 4995 - Nº Art. 69804: €

# Ref. 1639

## AVELLANADOR MADERA

Shell Drill Bit  
Foret outil-lamer-chambrer Bois



HSS



También posible uso como **tope** para brocas  
Also usable as a drill **stop**  
Utilisable comme bague d'arrêt pour forets

| D- mm | D+ mm | 📦 | Nº Art. | € |
|-------|-------|---|---------|---|
| 3     | 16    | 1 | 56011   |   |
| 4     | 16    | 1 | 56012   |   |
| 5     | 16    | 1 | 56013   |   |
| 6     | 16    | 1 | 56014   |   |
| 8     | 20    | 1 | 56016   |   |
| 10    | 20    | 1 | 56018   |   |



# Línea 33 cm 1639

## AVELLANADOR MADERA

Shell Drill Bit  
Foret outil-lamer-chambrer Bois



| Ø   | 3x16 | 4x16 | 5x16 | 6x16 | 8x20 | 10x20 |
|-----|------|------|------|------|------|-------|
| Pcs | 2    | 2    | 2    | 2    | 2    | 2     |

Ref. 4995 - Nº Art. 72160: €



Ref. **1637**

## TOPE PROFUNDIDAD DE BROCA

Drill Bit Depth Stop  
Butées de perçage

New!



C45

| D<br>mm | Nº<br>Art. | € |
|---------|------------|---|
| 3,00    | 13762      |   |
| 4,00    | 13763      |   |
| 5,00    | 13764      |   |
| 6,00    | 13765      |   |
| 8,00    | 13766      |   |
| 10,00   | 13767      |   |



Set 6 Pcs

| Cont.<br>Ø         | Nº<br>Art. | € |
|--------------------|------------|---|
| 3-4-5-6-8-10<br>mm | 81689      |   |

Ref. **1461**

## SET TOPES DE PROFUNDIDAD DE BROCAS

Drill Bit Depth Stop Set  
Jeu butées de perçage



13  
pcs

Brocas  
Drill Bits  
Forets  
3-4-5-6-8-10 mm

Topes de profundidad  
Depth Stops  
Butées de perçage  
3-4-5-6-8-10 mm

Nº  
Art.

€

79876

Llave Allen / Allen Wrench / Clé Allen 1 pc



# FRESAS

## Router Cutters

## Fraises

Ref. **1685**

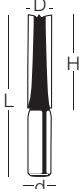
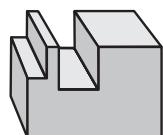
### FRESA RANURADO Y COPIADO CON CENTRADOR

Straight Bit with Centre Tip

Fraise rainurage et copiage avec pointe



**MD**  
**HM**  
Carbure



| D<br>mm     | d<br>mm | L<br>mm | H<br>mm |   | Nº<br>Art. | € |
|-------------|---------|---------|---------|---|------------|---|
| <b>3,00</b> | 8,00    | 37,0    | 6       | 1 | 69222      |   |
| <b>4,00</b> | 8,00    | 41,0    | 10      | 1 | 69225      |   |
| <b>5,00</b> | 8,00    | 43,0    | 12      | 1 | 69228      |   |
| <b>6,00</b> | 8,00    | 48,0    | 14      | 1 | 69231      |   |

| D<br>mm      | d<br>mm | L<br>mm | H<br>mm |   | Nº<br>Art. | € |
|--------------|---------|---------|---------|---|------------|---|
| <b>8,00</b>  | 8,00    | 51,0    | 20      | 1 | 69234      |   |
| <b>10,00</b> | 8,00    | 50,0    | 20      | 1 | 69237      |   |
| <b>12,00</b> | 8,00    | 50,0    | 20      | 1 | 69240      |   |

Ref. **1669**

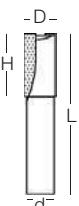
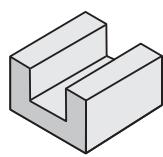
### FRESA RANURADO Y COPIADO

Straight Bit

Fraise rainurage et copiage



**MD**  
**HM**  
Carbure



| D<br>mm      | d<br>mm | L<br>mm | H<br>mm |   |   | Nº<br>Art. | € |
|--------------|---------|---------|---------|---|---|------------|---|
| <b>3,00</b>  | 8,00    | 47,0    | 11,0    | 1 | 1 | 36312      |   |
| <b>4,00</b>  | 8,00    | 47,0    | 11,0    | 1 | 1 | 36313      |   |
| <b>5,00</b>  | 8,00    | 47,0    | 11,0    | 1 | 1 | 36314      |   |
| <b>6,00</b>  | 8,00    | 48,0    | 16,0    | 2 | 1 | 36315      |   |
| <b>8,00</b>  | 8,00    | 51,0    | 20,0    | 2 | 1 | 36316      |   |
| <b>10,00</b> | 8,00    | 51,0    | 20,0    | 2 | 1 | 36317      |   |
| <b>12,00</b> | 8,00    | 51,0    | 20,0    | 2 | 1 | 36318      |   |

| D<br>mm      | d<br>mm | L<br>mm | H<br>mm |   |   | Nº<br>Art. | € |
|--------------|---------|---------|---------|---|---|------------|---|
| <b>14,00</b> | 8,00    | 51,0    | 20,0    | 2 | 1 | 36319      |   |
| <b>16,00</b> | 8,00    | 51,0    | 20,0    | 2 | 1 | 36320      |   |
| <b>18,00</b> | 8,00    | 51,0    | 20,0    | 2 | 1 | 36321      |   |
| <b>20,00</b> | 8,00    | 51,0    | 20,0    | 2 | 1 | 36322      |   |
| <b>22,00</b> | 8,00    | 59,0    | 25,0    | 2 | 1 | 36323      |   |
| <b>24,00</b> | 8,00    | 43,5    | 11,5    | 2 | 1 | 36324      |   |

Ref. **1679**

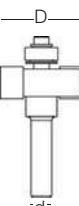
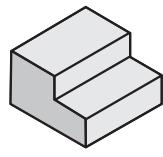
### FRESA REBAJADO CON COPIADOR

Rabbeting Bit

Fraise réduction avec copieur



**MD**  
**HM**  
Carbure



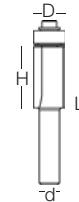
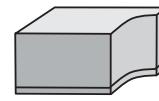
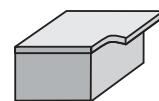
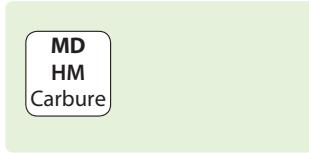
| D<br>mm      | d<br>mm | L<br>mm | H<br>mm |   | Nº<br>Art. | € |
|--------------|---------|---------|---------|---|------------|---|
| <b>28,50</b> | 8,00    | 54,0    | 12,7    | 1 | 69279      |   |

Ref. **1678**

## FRESA REFUNDIDO RECTO CON COPIADOR

Flush Trim Bit

Fraise fusionage droit avec copieur



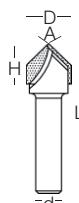
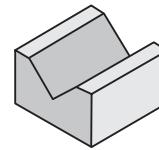
| D<br>mm      | d<br>mm | L<br>mm | H<br>mm | A<br>mm | Nº<br>Art. | € |
|--------------|---------|---------|---------|---------|------------|---|
| <b>12,70</b> | 8,00    | 70,0    | 25,4    | 1       | 36343      |   |

Ref. **1674**

## FRESA RANURAS EN "V"

"V" Grooves Bit

Fraise rainures "V"



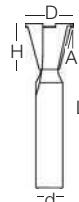
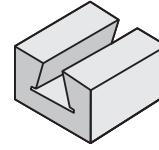
| D<br>mm      | d<br>mm | L<br>mm | H<br>mm | A<br>mm | Nº<br>Art. | €     |
|--------------|---------|---------|---------|---------|------------|-------|
| <b>12,70</b> | 8,00    | 45,0    | 12,7    | 90°     | 1          | 60757 |
| <b>16,00</b> | 8,00    | 46,0    | 12,7    | 90°     | 1          | 69212 |
| <b>19,00</b> | 8,00    | 51,0    | 16,0    | 90°     | 1          | 69214 |

Ref. **1676**

## FRESA COLA DE MILANO CON PRECORTADOR

Dovetail Bit

Fraise queue d'aronde avec precoupeur



| D<br>mm      | d<br>mm | L<br>mm | H<br>mm | A<br>mm | Nº<br>Art. | €     |
|--------------|---------|---------|---------|---------|------------|-------|
| <b>12,70</b> | 8,00    | 45,0    | 12      | 14°     | 1          | 60758 |

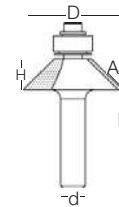
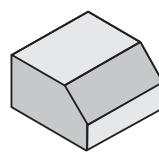
**Ref. 1677****FRESA BISELADO CON COPIADOR**

Bevel Trim Bit

Fraise biseautage avec copieur



**MD**  
**HM**  
Carbure



| D<br>mm      | d<br>mm | L<br>mm | H<br>mm | A<br>45° | Nº<br>Art. | € |
|--------------|---------|---------|---------|----------|------------|---|
| <b>31,80</b> | 8,00    | 56,0    | 15      | 1        | 36356      |   |

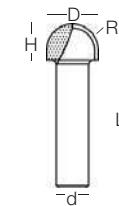
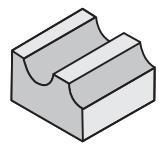
**Ref. 1670****FRESA RADIO CÓNCAVO**

Core Box Bit

Fraise rayon concave



**MD**  
**HM**  
Carbure



| D<br>mm      | d<br>mm | L<br>mm | H<br>mm | R<br>mm | Nº<br>Art. | €     |
|--------------|---------|---------|---------|---------|------------|-------|
| <b>9,50</b>  | 8,00    | 40,0    | 9,5     | 4,8     | 1          | 36328 |
| <b>12,70</b> | 8,00    | 40,0    | 12,7    | 6,3     | 1          | 36329 |

**Ref. 1671****FRESA RADIO CÓNCAVO CON COPIADOR**

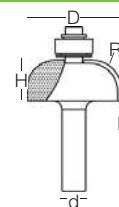
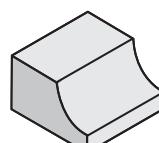
Cove Bit

Fraise rayon concave avec copieur



**MD**  
**HM**  
Carbure

3 Z

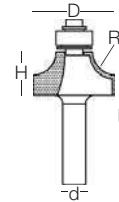
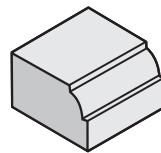


| D<br>mm      | d<br>mm | L<br>mm | H<br>mm | R<br>mm | Nº<br>Art. | €     |
|--------------|---------|---------|---------|---------|------------|-------|
| <b>28,50</b> | 8,00    | 55,0    | 14      | 9,5     | 1          | 60759 |
| <b>35,00</b> | 8,00    | 58,0    | 16      | 12,7    | 1          | 60760 |

**Ref. 1672****FRESA REDONDEADO CANTOS CON COPIADOR**

Beading Bit

Fraise arrondir les bouts avec copieur

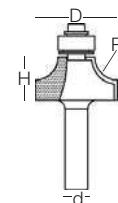
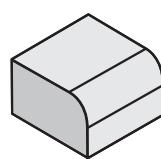


| D<br>mm      | d<br>mm | L<br>mm | H<br>mm | R    |   | Nº<br>Art. | € |
|--------------|---------|---------|---------|------|---|------------|---|
| <b>25,40</b> | 8,00    | 54,0    | 13,5    | 6,3  | 1 | 36332      |   |
| <b>28,60</b> | 8,00    | 55,0    | 15,9    | 7,9  | 1 | 36333      |   |
| <b>31,80</b> | 8,00    | 56,0    | 16,7    | 9,5  | 1 | 36334      |   |
| <b>38,10</b> | 8,00    | 59,0    | 19,0    | 12,7 | 1 | 36335      |   |

**Ref. 1673****FRESA REDONDEADO CANTOS CON COPIADOR**

Round Over Bit

Fraise arrondir les bouts avec copieur

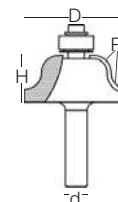
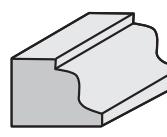


| D<br>mm      | d<br>mm | L<br>mm | H<br>mm | R    |   | Nº<br>Art. | € |
|--------------|---------|---------|---------|------|---|------------|---|
| <b>25,40</b> | 8,00    | 55,0    | 13,5    | 6,3  | 1 | 36336      |   |
| <b>28,60</b> | 8,00    | 56,0    | 15,9    | 7,9  | 1 | 36337      |   |
| <b>31,80</b> | 8,00    | 57,0    | 16,7    | 9,5  | 1 | 36338      |   |
| <b>38,10</b> | 8,00    | 60,0    | 19,0    | 12,7 | 1 | 36339      |   |

**Ref. 1681****FRESA PERFILEADO CON COPIADOR**

Roman Ogee Bit

Fraise profilage avec copieur



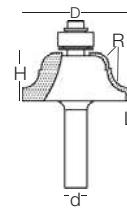
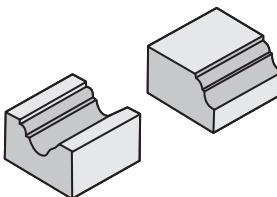
| D<br>mm      | d<br>mm | L<br>mm | H<br>mm | R    |   | Nº<br>Art. | € |
|--------------|---------|---------|---------|------|---|------------|---|
| <b>35,00</b> | 8,00    | 60,0    | 17,4    | 6,30 | 1 | 60762      |   |

Ref. **1682**

## FRESA PERFILADO

Classical Roman Ogee Bit

Fraise profilage



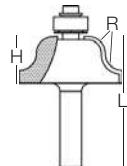
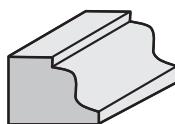
| D<br>mm      | d<br>mm | L<br>mm | H<br>mm | R    | Nº<br>Art. | €     |
|--------------|---------|---------|---------|------|------------|-------|
| <b>35,00</b> | 8,00    | 56,0    | 15,9    | 4,80 | 1          | 60763 |

Ref. **1686**

## FRESA PERFILADO

Ogee Bit

Fraise profilage



| D<br>mm      | d<br>mm | L<br>mm | H<br>mm | R   | Nº<br>Art. | €     |
|--------------|---------|---------|---------|-----|------------|-------|
| <b>31,80</b> | 8,00    | 54,0    | 12,7    | 4,8 | 1          | 69699 |
| <b>38,00</b> | 8,00    | 57,0    | 15,9    | 6,3 | 1          | 69701 |



# Línea 1m 16FM

## FRESAS MADERA

Wood Router Cutters

Fraises Bois



17  
cm

|      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |       |      |    |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|-------|------|----|
| Ref. | 1669 | 1669 | 1669 | 1669 | 1669 | 1669 | 1670 | 1670 | 1674 | 1674 | 1676 | 1677 | 1678  | 1679 | 1686 | 1681 | 1682  | 1685 |    |
| Ø    | 5    | 6    | 8    | 10   | 12   | 14   | 16   | 9,5  | 12,7 | 12,7 | 16   | 12,7 | 31,80 | 12,7 | 28,5 | 31,8 | 34,90 | 35   | 12 |
| Pcs  | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1     | 1    | 1    | 1    | 1     | 1    |    |

Ref. 4995 - Nº Art. 72181: €

# Display 64

## FRESAS MADERA

Wood Router Cutters

Fraises Bois



|      |      |      |       |      |      |       |
|------|------|------|-------|------|------|-------|
| Ref. | 1669 | 1669 | 1669  | 1669 | 1669 | 1669  |
| Ø    | 5    | 6    | 8     | 10   | 12   | 14    |
| Ref. | 1669 | 1670 | 1670  | 1671 | 1671 | 1672  |
| Ø    | 16   | 9,5  | 12,7  | 28,5 | 35   | 28,6  |
| Ref. | 1672 | 1672 | 1673  | 1673 | 1673 | 1674  |
| Ø    | 31,8 | 38,1 | 28,6  | 31,8 | 38,1 | 12,7  |
| Ref. | 1674 | 1676 | 1677  | 1678 | 1679 | 1681  |
| Ø    | 16   | 12,7 | 31,80 | 12,7 | 28,5 | 34,90 |
| Ref. | 1686 | 1682 | 1685  | 1685 | 1685 | 1685  |
| Ø    | 31,8 | 35   | 6     | 8    | 10   | 12    |

Nº Art. 39710: €

Ref. **1615**

## BROCA-FRESA INSTALADORES

TCT Hinge Boring Bit

Mèche à façonneur installateurs



Diente MD  
Carbide Tipped  
Dent Carbure



RPM  
Max.  
800-1000

Maderas Duras  
Hard Wood  
Bois dur

Maderas Blandas  
Soft Wood  
Bois tendre

**Indicado carpinteros y ebanistas, para instalación de ventanas, puertas y cocinas en todo tipo de maderas y materiales abrasivos.**

**Suitable for carpenters and cabinet-makers installing windows, doors & kitchens in all wood types and abrasive materials.**

**Idéal pour charpentiers et menuisiers pour installation de fenêtres, portes et cuisines tout genre de surfaces et matériaux abrasifs.**

| D<br>mm | d<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | € |
|---------|---------|---------|---------|---|------------|---|
| 15      | 8       | 90      | 10,00   | 1 | 23039      |   |
| 18      | 8       | 90      | 10,00   | 1 | 23040      |   |
| 20      | 8       | 90      | 12,50   | 1 | 23041      |   |
| 22      | 8       | 90      | 12,50   | 1 | 23042      |   |
| 24      | 8       | 90      | 12,50   | 1 | 23043      |   |
| 25      | 8       | 90      | 12,50   | 1 | 23044      |   |
| 26      | 8       | 90      | 14,50   | 1 | 23045      |   |
| 30      | 8       | 90      | 14,50   | 1 | 23046      |   |
| 35      | 10      | 90      | 14,50   | 1 | 23047      |   |
| 40      | 10      | 90      | 16,50   | 1 | 23048      |   |

**Línea 33 cm  
1615**

## BROCA-FRESA INSTALADORES

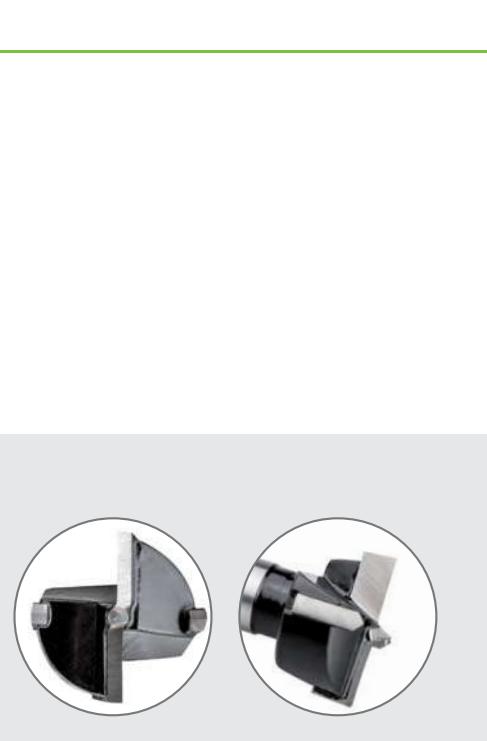
TCT Hinge Boring Bit

Mèche à façonneur installateurs



| Ø   | 20 | 25 | 26 | 35 |
|-----|----|----|----|----|
| Pcs | 2  | 2  | 2  | 2  |

Ref. 4995 - Nº Art. 72183: €



# Ref. 1620

## BROCA-FRESA MADERA

WOOD Forstner Bit

Mèche à façonnner BOIS



Apropiado para todo tipo de maderas naturales, blandas y nobles.

Ideal for use in all natural soft and hard woods.

C60

RPM  
Max.  
800

**Maderas Duras**  
Hard Wood  
Bois dur

**Maderas Blandas**  
Soft Wood  
Bois tendre



Idéal pour tout genre de bois naturels, tendres et nobles.

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | 📦 | Nº<br>Art. | € |
|---------|---------|---------|---------|---|------------|---|
| 10      | 9,50    | 93      | 8,50    | 1 | 18189      |   |
| 12      | 9,50    | 93      | 9,00    | 1 | 18190      |   |
| 14      | 9,50    | 93      | 9,00    | 1 | 18192      |   |
| 15      | 9,50    | 93      | 9,50    | 1 | 18193      |   |
| 16      | 9,50    | 93      | 9,50    | 1 | 18195      |   |
| 18      | 9,50    | 93      | 10,00   | 1 | 18196      |   |
| 20      | 9,50    | 93      | 10,50   | 1 | 18198      |   |

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | 📦 | Nº<br>Art. | € |
|---------|---------|---------|---------|---|------------|---|
| 22      | 9,50    | 93      | 11,00   | 1 | 18199      |   |
| 24      | 9,50    | 93      | 11,50   | 1 | 18201      |   |
| 25      | 9,50    | 93      | 11,50   | 1 | 18202      |   |
| 26      | 9,50    | 93      | 11,50   | 1 | 18204      |   |
| 28      | 9,50    | 93      | 12,50   | 1 | 18205      |   |
| 30      | 9,50    | 93      | 13,00   | 1 | 18206      |   |
| 32      | 9,50    | 93      | 13,00   | 1 | 18207      |   |

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | 📦 | Nº<br>Art. | € |
|---------|---------|---------|---------|---|------------|---|
| 34      | 9,50    | 93      | 13,50   | 1 | 18208      |   |
| 35      | 9,50    | 93      | 13,50   | 1 | 18210      |   |
| 40      | 9,50    | 95      | 15,50   | 1 | 18213      |   |
| 45      | 9,50    | 95      | 16,00   | 1 | 18214      |   |
| 50      | 9,50    | 95      | 17,50   | 1 | 18216      |   |

# Línea 33 cm 1620

## BROCA-FRESA MADERA

WOOD Forstner Bit

Mèche à façonnner BOIS



| Ø   | 16 | 20 | 26 | 35 | 40 |
|-----|----|----|----|----|----|
| Pcs | 2  | 2  | 2  | 2  | 2  |

Ref. 4995 - Nº Art. 72185: €

# Ref. 1625

## BROCA-FRESA BISAGRAS

Cantilever Hinge Bit

Mèche à façonnner charnières



MD  
HM  
Carbure

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | 📦 | Nº<br>Art. | € |
|---------|---------|---------|---------|---|------------|---|
| 26      | 8       | 54      | 7,50    | 1 | 24476      |   |
| 30      | 8       | 54      | 8,00    | 1 | 24477      |   |
| 35      | 8       | 54      | 8,20    | 1 | 24478      |   |



# Línea 33 cm 1625

## BROCA-FRESA BISAGRAS

Cantilever Hinge Bit

Mèche à façonnner charnières



| Ø   | 26 | 30 | 35 |
|-----|----|----|----|
| Pcs | 2  | 2  | 2  |

Ref. 4995 - Nº Art. 72187: €

Ref. **1689**

## FRESA ESPUMAS EVA\* Y MADERA

EVA Foam & Wood End Mill  
Fraise caoutchouc EVA et Bois



**MD**  
**HM**  
Carbure

IZAR  
Std.

**2**  
**Dientes**  
Teeth/Dents

\* **Etilvinilacetato**  
Ethylene-vinyl acetate  
Éthylène-acétate de vinyle

**Espumas EVA**  
Foam  
Caoutchouc

**Madera**  
Wood  
Bois

**Plásticos**  
Plastics  
Plastiques

| D<br>mm      | d<br>mm | L<br>mm | I<br>mm | Z |   | Nº<br>Art. | € |
|--------------|---------|---------|---------|---|---|------------|---|
| <b>01,00</b> | 3       | 38      | 3       | 2 | 1 | 79346      |   |
| <b>01,50</b> | 3       | 38      | 7       | 2 | 1 | 79421      |   |
| <b>02,00</b> | 3       | 38      | 17      | 2 | 1 | 79422      |   |
| <b>02,50</b> | 3       | 38      | 17      | 2 | 1 | 79423      |   |
| <b>03,00</b> | 3       | 55      | 32      | 2 | 1 | 79435      |   |
| <b>04,00</b> | 4       | 65      | 42      | 2 | 1 | 79436      |   |
| <b>06,00</b> | 6       | 70      | 42      | 2 | 1 | 79437      |   |
| <b>08,00</b> | 8       | 75      | 42      | 2 | 1 | 79438      |   |
| <b>10,00</b> | 10      | 85      | 42      | 2 | 1 | 79440      |   |



- Geometría Multi Material válida para una amplia gama de productos como espumas, acrílicos, PVC, ABS, tableros, madera contrachapada, resinas, nylon, etc.
- Special Multi Material geometry suitable for a wide range of products such as foams, acrylic, PVC, ABS, hardwood, plywood, resins, nylon, etc.
- Géométrie Multi Matériaux pour une gamme large de produits comme mousses, acryliques, PVC, ABC, tableaux, bois contreplaqués, résines, nylon, etc.
- **Mecanizado de las bandejas de herramientas.**
- **Machining of tool trays.**
- **Usinage de plateaux d'outils.**



Ref. **9001**

## BROCA-FRESA ROTOZIP® / ROTOCUT® METAL

Metal Rotozip® / Rotocut® Cutout Bit  
Foret-Fraise Rotozip® / Rotocut® Métal



**Chapas finas de metal**

Thin metal sheets

Tôles fines

| D<br>mm     | Pulgadas<br>Inches / Pouces | L     | I  | Z |   | Nº<br>Art. | € |
|-------------|-----------------------------|-------|----|---|---|------------|---|
| <b>3,97</b> | <b>5/32</b>                 | 50,00 | 11 | 2 | 2 | 67805      |   |

Ref. **7009**

## BROCA-FRESA ROTOZIP® / ROTOCUT® CERÁMICAS

Ceramic Rotozip® / Rotocut® Cutout Bit

Foret-Fraise Rotozip® / Rotocut® Céramique



Argamasa, Azulejos Cerámica, Estuco, Mármol,  
Placas Cemento, Yeso

Concrete Panels, Ceramic Tiles, Marble, Mortar, Plaster, Stucco

Mortier, Carreaux Faience Céramique, Stuc, Marbre, Plaques de  
ciment, Plâtre

| D<br>mm | Pulgadas<br>Inches / Pouces | L     | I     | Z | Nº<br>Art. | € |
|---------|-----------------------------|-------|-------|---|------------|---|
| 3,18    | 1/8                         | 45,00 | 21,00 | 1 | 18933      |   |
| 6,35    | 1/4                         | 50,00 | 20,50 | 1 | 18939      |   |

Ref. **7002**

## BROCA-FRESA ROTOZIP® / ROTOCUT® ESCAYOLA

Drywall Rotozip® / Rotocut® Cutout Bit

Foret-Fraise Rotozip® / Rotocut® Plâtre



Escayola  
Drywall  
Plâtre

Escayola, Muros Prefabricados

Drywall, Prefabricated Walls

Plâtre, Murs Préfabriqués

| D<br>mm | Pulgadas<br>Inches / Pouces | L     | I     | Z | Nº<br>Art. | €     |
|---------|-----------------------------|-------|-------|---|------------|-------|
| 3,18    | 1/8                         | 58,00 | 35,00 | 3 | 2          | 18927 |



Ref. **7003**

## BROCA-FRESA ROTOZIP® / ROTOCUT® AUTO-GUÍA

Autocenter Rotozip® / Rotocut® Cutout Bit  
Foret-Fraise Rotozip® / Rotocut® autocentré



HSS  
Auto-center

**Escayola, Espuma, Muros Prefabricados**

Drywall, Foam, Prefabricated Walls

Plâtre, Mousse, Murs Préfabriqués

| D<br>mm | Pulgadas<br>Inches / Pouces | L     | I     | Z | Nº<br>Art. | €     |
|---------|-----------------------------|-------|-------|---|------------|-------|
| 3,18    | 1/8                         | 60,00 | 35,00 | 1 | 2          | 19002 |
| 3,97    | 5/32                        | 75,00 | 40,00 | 1 | 2          | 67795 |
| 6,35    | 1/4                         | 82,00 | 44,00 | 1 | 1          | 18930 |

Ref. **7001**

## BROCA-FRESA ROTOZIP® / ROTOCUT® MADERA

Wood Rotozip® / Rotocut® Cutout Bit  
Foret-Fraise Rotozip® / Rotocut® Bois



HSS

**Aglomerado, Aluminio, Espuma, Fibra Vidrio, Laminados,  
Plástico, Plexiglás, Vinilo**

Aluminium, Chipboard, FibreGlass, Foam, Laminated,  
Plastics, Plexiglas, Vinyl

Agglomérat, Aluminium, Mousse, Fibre de Verre, Laminés,  
Plastiques, Plexiglas, Vinyle

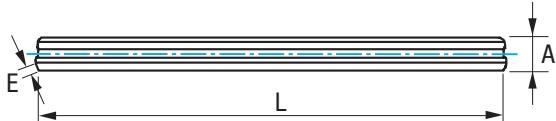
| D<br>mm | Pulgadas<br>Inches / Pouces | L     | I     | Z | Nº<br>Art. | €     |
|---------|-----------------------------|-------|-------|---|------------|-------|
| 3,18    | 1/8                         | 70,00 | 35,00 | 1 | 2          | 18999 |



Ref. **1690**

## UCHILLA CEPILLOS ELÉCTRICOS

Planner Blade  
Lame à surfacer

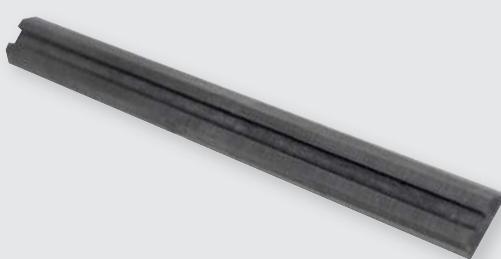


**MD**  
**HM**  
Carbure



| L         | A   | E    |   | Nº    | € |
|-----------|-----|------|---|-------|---|
| mm        | mm  | mm   |   | Art.  |   |
| <b>82</b> | 5,5 | 1,10 | 2 | 60635 | * |

\* € = 1 ud.



## SIERRAS

Saw Blades  
Lames scies

### OSCILANTES MULTI-FUNCIÓN

Oscillating Multi-Tools  
Outils multifonction

298

### SIERRAS SABLE

Sabre Saw Blades  
Lames scie sabre

320

### SIERRAS CALAR

Jig Saw Blades  
Lames scies sauteuses

336



## CUADRO USO SIERRAS OSCILANTES MULTI-FUNCIÓN

Oscillating Multi-Tool Table  
Tableau utilisation outils multifonction

|                                                                                                                                                      | STARLOCK             |       |         |       |       |         |       |       |       |         |         |         |         |         |         |         |         |               |
|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------|---------|-------|-------|---------|-------|-------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------------|
|                                                                                                                                                      | MADERA - Wood - Bois |       |         |       |       |         |       |       | METAL |         |         |         |         |         |         |         |         |               |
|                                                                                                                                                      | Ref.                 | 2940  | 2940    | 2940  | 2940  | 2940    | 2940  | 2940  | 2910  | 2910    | 2910    | 2910    | 2910    | 2910    | 2910    | 2910    | 2910    | 2910          |
| Mod.                                                                                                                                                 | 00010                | 00020 | 00030   | 00040 | 00050 | 00060   | 00070 | 00010 | 00020 | 00030   | 00040   | 00050   | 00060   | 00070   | 00080   | 00090   | 00100   |               |
| Mat.                                                                                                                                                 | HCS                  | HCS   | Bimetal | HCS   | HCS   | Bimetal | HCS   | MD HM | MD HM | Bimetal + TIN |
| ● <b>Ideal</b><br>Ideal - Idéal                                                                                                                      |                      |       |         |       |       |         |       |       |       |         |         |         |         |         |         |         |         |               |
| ○ <b>Adecuado</b><br>Suitable - Convenable                                                                                                           |                      |       |         |       |       |         |       |       |       |         |         |         |         |         |         |         |         |               |
| <b>Madera Blanda</b><br>Soft Wood / Bois tendre                                                                                                      | ●                    | ○     | ○       | ●     | ○     | ○       | ●     | ●     | ●     | ●       | ●       | ●       | ●       | ●       | ●       | ●       | ●       |               |
| <b>Madera Dura</b><br>Hard Wood / Bois dur                                                                                                           | ●                    | ●     | ●       | ●     | ●     | ●       | ●     | ●     | ●     | ●       | ●       | ●       | ●       | ●       | ●       | ●       | ●       |               |
| <b>Madera+Clavos</b><br>Wood+Nails / Bois+Clous                                                                                                      | ●                    | ●     | ●       | ●     | ●     | ●       | ●     | ●     | ●     | ●       | ●       | ●       | ●       | ●       | ●       | ●       | ●       |               |
| <b>Metal</b>                                                                                                                                         | ●                    | ●     | ●       | ●     | ●     | ●       | ●     | ●     | ●     | ●       | ●       | ●       | ●       | ●       | ●       | ●       | ●       |               |
| <b>INOX / Stainless / Inox</b>                                                                                                                       | ●                    | ●     | ●       | ●     | ●     | ●       | ●     | ●     | ●     | ●       | ●       | ●       | ●       | ●       | ●       | ●       | ●       |               |
| <b>Plástico / Plastics / Plastique</b>                                                                                                               | ○                    | ●     | ●       | ●     | ●     | ●       | ●     | ●     | ●     | ●       | ●       | ●       | ●       | ●       | ●       | ●       | ●       |               |
| <b>Fibra Vidrio</b><br>Fibreglass / Fibre verre                                                                                                      | ●                    | ●     | ●       | ●     | ●     | ●       | ●     | ○     | ○     | ●       | ●       | ●       | ●       | ●       | ●       | ●       | ●       |               |
| <b>Abrasivos</b><br>Abrasives / Abrasifs                                                                                                             | ●                    | ●     | ●       | ●     | ●     | ●       | ●     | ●     | ●     | ●       | ●       | ●       | ●       | ●       | ●       | ●       | ●       |               |
| <b>Pladur / Drywall / Plâtre</b>                                                                                                                     | ●                    | ●     | ●       | ●     | ●     | ●       | ●     | ●     | ●     | ●       | ●       | ●       | ●       | ●       | ●       | ●       | ●       |               |
| <b>No ferrosos</b><br>Non-ferrous / Non ferreux                                                                                                      | ●                    | ●     | ●       | ●     | ●     | ●       | ●     | ●     | ●     | ●       | ●       | ●       | ●       | ●       | ●       | ●       | ●       |               |
| <b>Perfiles / Profiles / Profils</b>                                                                                                                 | ●                    | ●     | ●       | ●     | ●     | ●       | ●     | ●     | ●     | ●       | ●       | ●       | ●       | ●       | ●       | ●       | ●       |               |
| <b>Parquet-Laminados</b><br>Laminated-Parquet<br>Parqué-Laminés                                                                                      | ●                    | ●     | ●       | ●     | ●     | ●       | ●     | ●     | ●     | ●       | ●       | ●       | ●       | ●       | ●       | ●       | ●       |               |
| <b>GFK</b>                                                                                                                                           | ●                    | ●     | ●       | ●     | ●     | ●       | ●     | ●     | ●     | ●       | ●       | ●       | ●       | ●       | ●       | ●       | ●       |               |
| <b>Cerámica</b><br>Ceramics / Céramique                                                                                                              | ●                    | ●     | ●       | ●     | ●     | ●       | ●     | ●     | ●     | ●       | ●       | ●       | ●       | ●       | ●       | ●       | ●       |               |
| <b>Grout-Mortero</b><br>Grout-Mortar<br>Coulies-Mortier                                                                                              | ●                    | ●     | ●       | ●     | ●     | ●       | ●     | ●     | ●     | ●       | ●       | ●       | ●       | ●       | ●       | ●       | ●       |               |
| <b>Pulido / Sanding / Poncer</b>                                                                                                                     | ●                    | ●     | ●       | ●     | ●     | ●       | ●     | ●     | ●     | ●       | ●       | ●       | ●       | ●       | ●       | ●       | ●       |               |
| <b>Aislamiento</b><br>Isolating / Isolant                                                                                                            | ●                    | ●     | ●       | ●     | ●     | ●       | ●     | ●     | ●     | ●       | ●       | ●       | ●       | ●       | ●       | ●       | ●       |               |
| <b>Caucho</b><br>Rubber / Caoutchouc                                                                                                                 | ●                    | ●     | ●       | ●     | ●     | ●       | ●     | ●     | ●     | ●       | ●       | ●       | ●       | ●       | ●       | ●       | ●       |               |
| <b>Cuero / Leather / Cuir</b>                                                                                                                        | ●                    | ●     | ●       | ●     | ●     | ●       | ●     | ●     | ●     | ●       | ●       | ●       | ●       | ●       | ●       | ●       | ●       |               |
| <b>Restos blandos (pegamento, moqueta, silicona...)</b><br>Soft remains (glue, carpet, silicone...)<br>Restes tendres (colle, moquette, silicone...) | ●                    | ●     | ●       | ●     | ●     | ●       | ●     | ●     | ●     | ●       | ●       | ●       | ●       | ●       | ●       | ●       | ●       |               |

## **CUADRO USO SIERRAS OSCILANTES MULTI-FUNCIÓN**

## Oscillating Multi-Tool Table

# OSCILANTES MULTI-FUNCIÓN

Oscillating Multi-Tools   Outils multifonction

## LA GAMA MÁS COMPLETA PARA TODOS LOS MATERIALES

The most complete range for every material

La gamme plus complète pour tous les matériaux

**Para serrar, cortar, rascar, fresar y escofinar**

For sawing, cutting, scraping, milling and rasping

Pour scier, couper, fraiser et gratter



### COMPATIBILIDAD / Compatibility / Compatibilité

#### Starlock:

Bosch GOP 12-28, PMF 220 CE, PMF 250 CES

#### Starlock Plus:

Bosch GOP 30-28, Bosch GOP 40-30, Bosch GOP 18V-28, Bosch PMF 350 CES, Fein AFMT 12 SL, Fein AFMT 12 QSL, Fein AFMM 18 QSL, Fein FMT 250 SL, Fein FMT 250 QSL, Fein FMM 350 QSL, Fein Multimaster, Fein Multitalent

#### Starlock Max:

Bosch GOP 55-36, Fein AFSC 18 QSL, Fein AFSC 18 QCSL, Fein FSC 500 QSL

#### OTROS Others Autres:

Bosch GOP, Bosch PMF, Fein Multimaster, Fein Multitalent, Makita, Hitachi, Metabo, Milwaukee, AEG, Einhell, Ryobi, Skil...

STARLOCK



•



MADERA  
Wood  
Bois



METAL



ESPECIAL  
Special  
Spécial

# OSCILANTES MULTI-FUNCIÓN

Oscillating Multi-Tools

Outils multifonction

Ref. **2940**

MADERA Wood Bois



STARLOCK



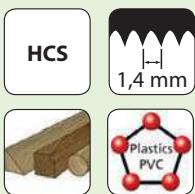
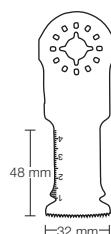
Mod **00010**

Mod. N° Art. €  
00010 1 69095

## CORTE CURVO MADERAS BLANDAS

Curve Cutting in Soft Wood

Coupe courbe pour bois tendre



Corte limpio y preciso en maderas blandas y plásticos. Filos de corte redondeados para evitar sacudidas y conseguir una profundización suave del corte. Serrado cerca de bordes, en esquinas y zonas de difícil acceso, como p.e. ventanas estrechas para montar rejillas de ventilación.

Clean and precise cuts in softwood and plastics. Rounded cutting edges for jolt-free and smooth plunge cutting. Sawing near edges and difficult-to-reach areas, such as tight windows to install grilles of ventilation.

Coupe propre et précise sur bois tendres et plastiques. Filets de coupe arrondis pour éviter les secouées et obtenir une profondeur plus douce de la coupe. Serrage près des bords, en coins et surfaces d'accès difficile, comme fenêtres étroites pour fixer des grilles de ventilation.



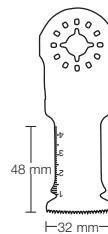
Mod **00020**

Mod. N° Art. €  
00020 1 69096

## CORTE CURVO MADERAS DURAS

Curve Cutting in Hard Wood

Coupe courbe pour bois dur



Corte limpio y preciso en maderas, sobre todo duras. Filos de corte redondeados para evitar sacudidas y conseguir una profundización suave del corte.

Clean and precise cuts in Wood, specially in hard wood. Rounded cutting edges for jolt-free and smooth plunge cutting.

Coupe propre et précise sur bois, surtout durs. Filets de coupe arrondis pour éviter les secouées et obtenir une profondeur plus douce de la coupe.



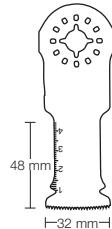
Mod 00030

Mod. Nº Art. €  
00030 1 69097

**CORTE CURVO ALTO RENDIMIENTO MADERAS DURAS**

High Performance Curve Cutting in Hard Wood

Coupe courbe haut rendement pour bois dur



**Corte limpio y preciso en maderas, sobre todo duras. Filos de corte redondeados para evitar sacudidas y conseguir una profundización suave del corte.**

Clean and precise cuts in Wood, specially in hard wood. Rounded cutting edges for jolt-free and smooth plunge cutting.

Coupe propre et précise sur bois, surtout durs. Filets de coupe arrondis pour éviter les secouées et obtenir une profondeur plus douce de la coupe.



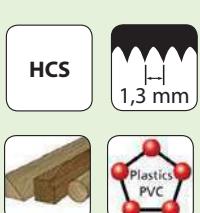
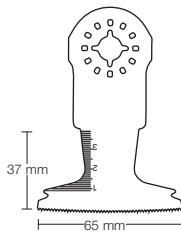
Mod 00040

Mod. Nº Art. €  
00040 1 69099

**CORTE CURVO MADERAS BLANDAS**

Curve Cutting in Soft Wood

Coupe courbe pour bois tendre



**Corte limpio y preciso en maderas blandas y plásticos. Filos de corte redondeados para evitar sacudidas y conseguir una profundización suave del corte.**

Clean and precise cuts in softwood and plastics. Rounded cutting edges for jolt-free and smooth plunge cutting.

Coupe propre et précise sur bois, surtout durs. Filets de coupe arrondis pour éviter les secouées et obtenir une profondeur plus douce de la coupe.



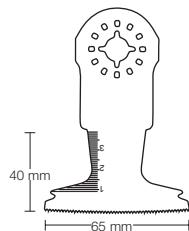
Mod 00050

Mod. N° Art. €  
00050 1 69102

**CORTE CURVO MADERAS DURAS**

Curve Cutting in Hard Wood

Coupe courbe pour bois dur



**Corte limpio y preciso en maderas, sobre todo duras. Filos de corte redondeados para evitar sacudidas y conseguir una profundización suave del corte.**

Clean and precise cuts in Wood, specially in hard wood. Rounded cutting edges for jolt-free and smooth plunge cutting.

Coupe propre et précise sur bois, surtout durs. Filets de coupe arrondis pour éviter les secouées et obtenir une profondeur plus douce de la coupe.



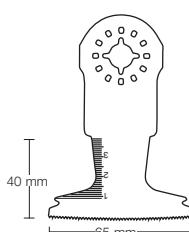
Mod 00060

Mod. N° Art. €  
00060 1 69103

**CORTE CURVO ALTO RENDIMIENTO MADERAS DURAS**

High Performance Curve Cutting in Hard Wood

Coupe courbe haut rendement pour bois dur



**Corte limpio y preciso en maderas, sobre todo duras. Filos de corte redondeados para evitar sacudidas y conseguir una profundización suave del corte.**

Clean and precise cuts in Wood, specially in hard wood. Rounded cutting edges for jolt-free and smooth plunge cutting.

Coupe propre et précise sur bois, surtout durs. Filets de coupe arrondis pour éviter les secouées et obtenir une profondeur plus douce de la coupe.



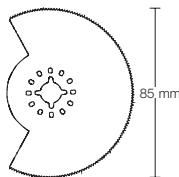
Mod **00070**

Mod. Nº Art.   
00070 1 69104

**HOJA SIERRA SEGMENTADA**

Segmented Saw Blade

Lame segmenté



**Corte limpio y preciso en maderas y plásticos. Tronzado de tubos de plástico, rejillas de ventilación, espigas salientes en uniones de madera. Recorte de molduras o marcos de puerta ya instalados; cortes de inmersión para ajustar tarimas.**

**Clean and precise cutting of wood and plastic. Parting of plastic pipes, grilles, protrusions in wood-unions. Installed (door) frames cutting; wood flooring plunge cutting.**

**Coupe propre et précise sur bois et plastiques. Tronçage sur tube en plastiques, grilles de ventilation, chevilles d'union en bois. Coupure des cadres de portes déjà installés, coupes d'immersion pour fixer les parquets.**



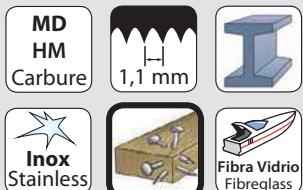
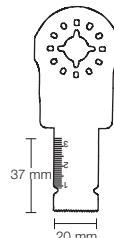


Mod 00010

Mod. Nº Art. €  
00010 1 69105

**ALTO RENDIMIENTO INOX / CLAVOS**

Heavy Duty Stainless / Nails  
Haut rendement Inox / Clous



**Corte limpio y preciso en metal, inoxidable, tornillos, clavos, fibra vidrio, abrasivos, pladur, barras de hierro, tubos negros, grapas.**

Clean and precise cuts in metal, stainless Steel, hardened screws, nails, fibreglass, abrasives, drywall, iron bars, black pipes, staples.

Coupe propre et précise sur aciers, Inox, vis, clous, fibre de verre, abrasifs, barreaux de fer, tubes noirs et agrafes.

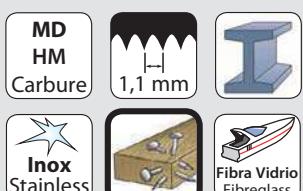
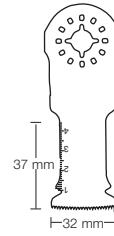


Mod 00020

Mod. Nº Art. €  
00020 1 69106

**ALTO RENDIMIENTO INOX / CLAVOS**

Heavy Duty Stainless / Nails  
Haut rendement Inox / Clous



**Corte limpio y preciso en metal, inoxidable, tornillos, clavos, fibra vidrio, abrasivos, pladur, barras de hierro, tubos negros, grapas.**

Clean and precise cuts in metal, stainless Steel, hardened screws, nails, fibreglass, abrasives, drywall, iron bars, black pipes, staples.

Coupe propre et précise sur aciers, Inox, vis, clous, fibre de verre, abrasifs, barreaux de fer, tubes noirs et agrafes.

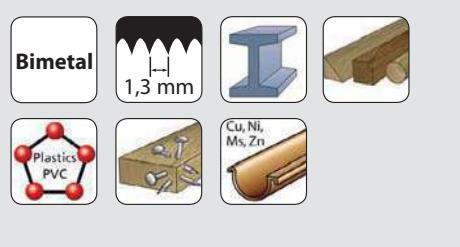
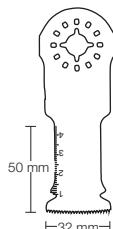


Mod 00060

Mod. Nº Art. €  
00060 1 69111

**CORTE CURVO Y RÁPIDO METAL / MADERA / CLAVOS**

Curve & Fast Cutting in Metal / Wood / Nails  
Coupe courbe et rapide dans Métal / Bois / Clous



**Corte limpio y preciso en metal, madera, maderas con clavos, plásticos y materiales no ferrosos. Filos de corte redondeados para evitar sacudidas y conseguir una profundización suave del corte.**

Clean and precise cuts in metal, wood, wood with nails, plastics and non-ferrous materials. Rounded cutting edges for jolt-free and smooth plunge cutting.

Coupe propre et précise sur aciers, bois, bois avec clous, plastiques et aciers non ferreux. Filets de coupe arrondis pour éviter des secouées et obtenir une profondeur plus douce de la coupe.

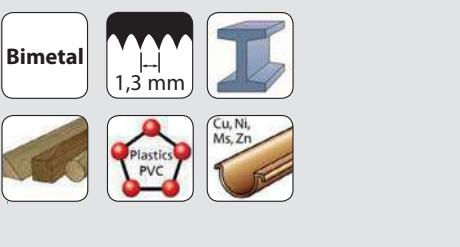
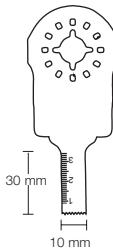


Mod 00030

Mod. Nº Art. €  
00030 1 69107

**CORTE RECTO METAL / MADERA**

Straight Cut Metal / Wood  
Coupe droite Métal / Bois



**Corte limpio y preciso en metal, madera y plásticos, metales no ferrosos, cerraduras, pladur. Aberturas para cajas de enchufe, separación de tubos de cobre a ras de superficie, cortes de inmersión en paneles de cartón enyesado.**

Clean and precise cuts in metal, Wood and plastics, non-ferrous metals, locks, drywall. Opening of socket-boxes, separating copper pipes at surface level, plunge cutting in plastered carton-panels.

Coupe propre et précise sur aciers, bois et plastiques, aciers non ferreux, serrures. Ouvertures pour prises, séparation de tubes en cuivres à ras de sol, coupe d'immersion sur panneaux en plâtre.

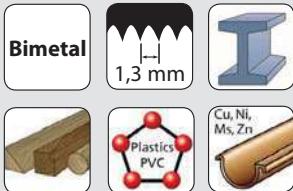
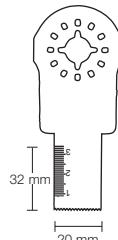


Mod 00040

Mod. N° Art. €  
00040 1 69108

## CORTE RECTO METAL / MADERA

Straight cutting of Metal / Wood  
Coupe droit Métal / Bois



**Corte limpio y preciso en metal, madera, plásticos y materiales no ferrosos, pladur, clavos, tubos a ras de superficie.**

**Clean and precise cuts in metal, Wood, plastics and non-ferrous materials, drywall, nails, pipes at the level of the surface.**

**Coupe propre et précise sur aciers, bois, plastiques et aciers non ferreux, clous, tubes à ras de sol.**

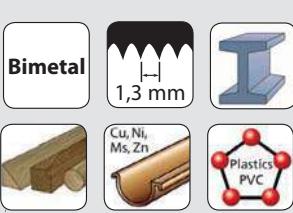
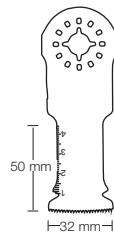


Mod 00050

Mod. N° Art. €  
00050 1 69109

## CORTE RECTO METAL / MADERA

Straight cutting of Metal / Wood  
Coupe droit Métal / Bois



**Corte limpio y preciso en metal, madera, plásticos y materiales no ferrosos, pladur.**

**Clean and precise cuts in metal, Wood, plastics and non-ferrous materials, drywall.**

**Coupe propre et précise sur aciers, bois, plastiques et aciers non ferreux, plâtre.**



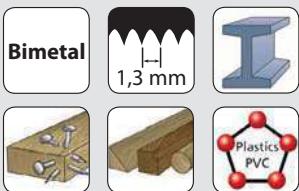
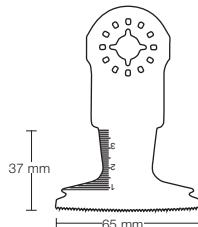
Mod 00070

Mod. Nº Art. €  
00070 1 69112

**CORTE CURVO Y RÁPIDO METAL / MADERA / CLAVOS**

Curve &amp; Fast Cutting in Metal / Wood / Nails

Coupe courbe et rapide dans Métal / Bois / Clous



**Corte limpio y preciso en metal, madera, maderas con clavos y plásticos. Filos de corte redondeados para evitar sacudidas y conseguir una profundización suave del corte.**

Clean and precise cuts in metal, wood, wood with nails and plastics. Rounded cutting edges for jolt-free and smooth plunge cutting.

Coupe propre et précise sur aciers, bois, bois avec clous et plastiques. Filets de coupe arrondis pour éviter des secouées et obtenir une profondeur plus douce de la coupe.



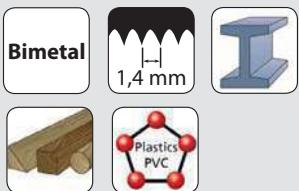
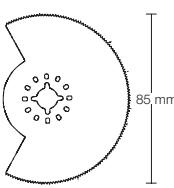
Mod 00080

Mod. Nº Art. €  
00080 1 69113

**SIERRA SEGMENTADA. CORTE FINO METAL / MADERA**

Segmented Blade. Fine cutting of Metal / Wood

Lame segmenté. Coupe fin dans Métal / Bois



**Corte limpio y preciso en metal, madera y plásticos. Recorte de marcos de puertas a ras de suelo, laminados, parqué, listones para perfiles.**

Clean and precise cuts in metal, wood, wood with nails and plastics. Door-frame trimming at the level of the floor, laminated, parquet, profile-strips.

Coupe propre et précise sur aciers, bois, bois avec clous et plastiques. Filets de coupe arrondis pour éviter des secouées et obtenir une profondeur plus douce de la coupe.

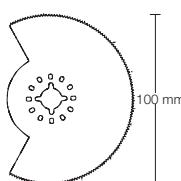


Mod 00090

Mod. Nº Art. €  
00090 1 69114

**SIERRA SEGMENTADA. ALTO RENDIMIENTO METAL / MADERA**

Segmented Blade. High performance in Metal / Wood  
Lame segmenté. haut rendement dans Métal / Bois



**Corte limpio y preciso en metal, madera y plásticos.**  
Recorte de marcos de puertas a ras de suelo, laminados, parqué, listones para perfiles.

Clean and precise cuts in metal, wood, wood with nails and plastics. Door-frame trimming at the level of the floor, laminated, parquet, profile-strips.

Coupe propre et précise sur aciers, bois et plastiques. Coupures de cadres de portes à ras de sol, laminés, parquets et profils.

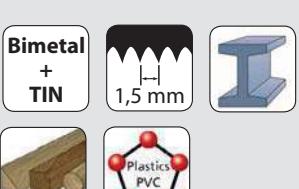
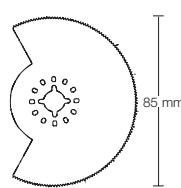


Mod 00100

Mod. Nº Art. €  
00100 1 69115

**CORTE CURVO MADERAS BLANDAS**

Curve Cutting in Soft Wood  
Coupe courbe pour bois tendre



**Corte limpio y preciso en metal, madera y plásticos.**  
Dientes recubiertos en titanio para una mayor vida de la herramienta. Corte de entalladuras en epoxi, GFK, listones pequeños para perfiles.

Clean and precise cuts in metal, wood, wood with nails and plastics. Titanium coated teeth for a longer lifetime. Cutting of epoxy-jointings, GFK, small profile-strips.

Coupe propre et précise sur aciers, bois et plastiques. Dents recouverts en titane pour une plus longue vie de l'outil. Coupe dans les bords, petites barres pour profils.

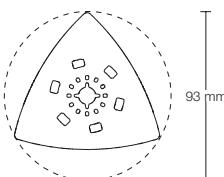


Mod 00010

Mod. Nº Art. €  
00010 1 69116

**PLACA LIJADORA**

Sanding Plate  
Patin de ponçage



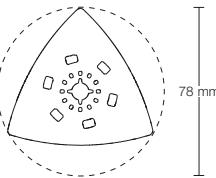
**Placa para pulir con fijación tipo micro-velcro.**  
**Sanding plate with micro-velcro type fastening.**  
**Patin de ponçage avec aspiration des poussières.**

Mod 00020

**PLACA LIJADORA DESBASTE**

Sanding Plate for Roughing  
Patin de ponçage ébauche

Mod. Nº Art. €  
00020 1 69117



MD/HM  
Carbure  
K20



Grueso  
Coarse  
Gross



**Ideal para eliminar mortero, adhesivo de azulejos y residuos de adhesivos en alfombras, incluso en esquinas gracias a su forma triangular.**

**Ideal for removing mortar, tile adhesive and carpet adhesive residues even in the corners with the triangle shape.**

**Conseillé pour supprimer le mortier, cole de carrelage et copeaux collants sur tapis, même aux corners grâce à sa forme triangulaire.**





Mod 00030

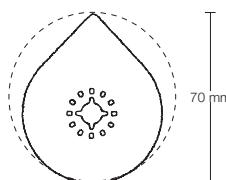
Mod. Nº Art. €  
00030 1 69118

|              |             |
|--------------|-------------|
| <b>MD/HM</b> | <b>2 mm</b> |
| Carbure      |             |
| K40          |             |
|              |             |
| Medium       |             |

**SIERRA SEGMENTADA + PLACA LIJADORA**

Segmented Saw + Sanding Plate

Lame segmenté à concretion carbure plus patin de ponçage

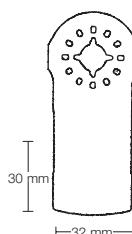
**Ideal para eliminar grout y mortero de juntas de paredes y suelos, incluso en las esquinas más remotas.****Ideal for removing grout & mortar from Wall and floor tiles, even in the most remote corners.****Conseillé pour supprimer mortier sur joints de murs et sols, même sur les coins plus difficiles.**

Mod 00060

Mod. Nº Art. €  
00060 1 69121**SIERRA INMERSIÓN ABRASIVOS**

Plunge Saw for Abrasives

Lame immersion abrasifs



|                            |             |
|----------------------------|-------------|
| <b>MD/HM</b>               | <b>2 mm</b> |
| Carbure                    |             |
| K50                        |             |
|                            |             |
| Fibra Vidrio<br>Fibreglass |             |
| Medium                     |             |

**Corte profundo en materiales muy abrasivos como la fibra de vidrio. Filos de corte redondeados para evitar sacudidas y conseguir una profundización suave del corte.****Plunge cutting in strongly abrasive materials, such as fibreglass. Rounded cutting edges for jolt-free and smooth plunge cutting.****Coupe profonde sur matériaux abrasifs comme la fibre de verre. Filets de coupe arrondis pour éviter les secouées et obtenir une profondeur douce de la coupe.**

Mod **00040**

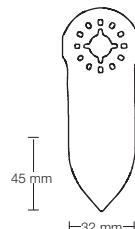
**Mod.** **Nº Art.**

00040 1 69119

**SIERRA INMERSIÓN LIJADO FINO**

Plunge Saw for Fine Sanding

Râpe à concretion carbure



Pulido de residuos de pintura, madera, plásticos, composites, epoxy. Ranurado en espacios estrechos y áreas remotas. Usar a 2/3 de la velocidad máxima. Lijado de madera o pintura en zonas de difícil acceso sin papel de lijar.

Sanding of Paint residues, Wood, plastic, composite, epoxy. Slotting in tight gaps and hard-to-reach areas. Use 2/3 of maximum speed. Sanding of wood or painting in difficult-to-reach areas without sanding-paper.

Dégrossissage de résidus de peinture, bois, plastiques et composites. Rainurage sur endroits exigus et zones difficiles. Utilisez à 2/3 de la vitesse maximale. Ponçage de peinture où bois sur zones de difficile accès sans papier de ponçage.

Mod **00050**

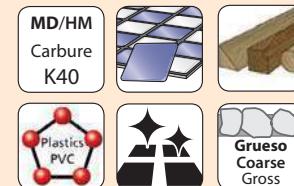
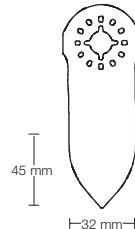
**Mod.** **Nº Art.**

00050 1 69120

**SIERRA INMERSIÓN LIJADO DESBASTE**

Plunge Saw for Rough Sanding

Râpe à concretion carbure ébauche



Pulido de residuos de pintura, madera, plásticos, composites, epoxy. Ranurado en espacios estrechos y áreas remotas. Usar a 2/3 de la velocidad máxima.

Sanding of Paint residues, Wood, plastic, composite, epoxy. Slotting in tight gaps and hard-to-reach areas. Use 2/3 of maximum speed.

Dégrossissage de résidus de peinture, bois, plastiques et composites. Rainurage sur endroits exigus et zones difficiles. Utilisez à 2/3 de la vitesse maximale.

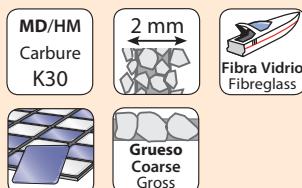
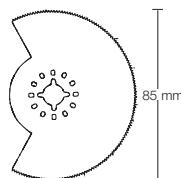
Mod **00070**

Mod. Nº Art. €  
00070 1 69122

**CORTE GRUESO ENTRE AZULEJOS**

Rough Cutting among Tiles

Coupe grosse carreaux

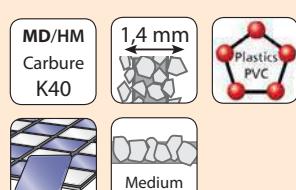
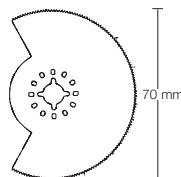
Mod **00080****CORTE FINO ENTRE AZULEJOS**

Fine Cutting among Tiles

Coupe fine carreaux



Mod. Nº Art. €  
00080 1 69123

**Alineado de juntas en azulejos de pared y suelo.**

Precise routing joints on wall and floor tiles.

Pour aligner les joints sur carreaux murs et sols.



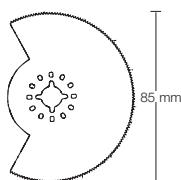
Mod **00090**

Mod. Nº Art. €  
00090 1 69124

**CORTE DIAMANTE AZULEJOS EXTERIOR**

Diamond Cutting of Outer Tiles

Coupe diamant carreaux extérieur



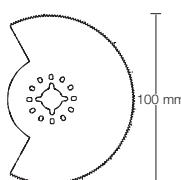
**Alineado de juntas en azulejos de pared y suelo.**  
**Separación de azulejos, resinas epoxi y plásticos reforzados con fibra de vidrio.**

Precise routing joints on wall and floor tiles. Separating of tiles, epoxy gum and fibreglass reinforced plastics.

Pour aligner les joints sur carreaux murs et sols. Séparation de carreaux, résines et plastiques renforcés avec fibre de verre.

Mod **00100**

Mod. Nº Art. €  
00100 1 69126

**DENTADO ONDULADO AISLANTES**Waved Teeth for Isolating  
Denture vague isolation

**Ideal para materiales de aislamiento como el poliestireno, espuma rígida, materiales blandos como alfombras, caucho, cuero... Cortes a ras de suelo de material sobre-saliente.**

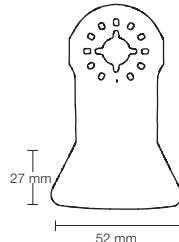
Ideal for isolating materials, such as polystyrene, rigid foam, soft materials such as carpets, rubber, leather... Cutting of protruding material at floor level...

Conseillé pour matériaux isolation comme le polystyrène, mousse rigide, matériaux tendres comme tapis, cuire... Coupe à ras de sol des matériaux dépassants

Mod **00110**Mod. Nº Art. €  
00110 1 69127**HCS****RASCADORA**

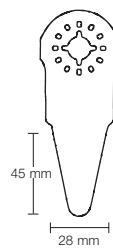
Scraper

Racloir

**Restos blandos de pegamento, moqueta, material aglutinante, material de juntas, silicona...****Soft remains of glue, carpet, agglutinative material, joint-material, silicone...****Copeaux tendres de colle, tapis, matière aglutinantes, matériel de jointes, ...**Mod **00120**Mod. Nº Art. €  
00120 1 69129**HCS****DENTADO ONDULADO AISLANTES**

Waved Teeth for Isolating

Denture vague isolation

**Juntas de expansión blanda y materiales de aislamiento, silicona en ventanas.****Soft expanding joints and insulating materials, silicone in windows.****Jointes d'expansion tendres et matériaux. silicones en fenêtres.**

Ref. **2930**

MULTI



STARLOCK



Mod **00130**

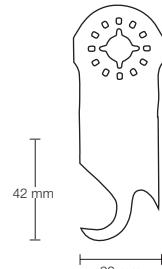
Mod. Nº Art. €  
00130 1 69130



HCS Abrasivos

### CORTE PRECISO MATERIALES BLANDOS Y ABRASIVOS

Precise Cutting of Soft Materials and Abrasives  
Coupe précis de matériaux moelleux et abrasifs



Corte rápido y preciso de material blando y material flexible abrasivo, p.e. alfombras, cartón, PVC...

Fast and precise cutting of soft material and abrasive flexible material, such as carpets, carton, PVC...

Coupe propre et précise sur bois tendres et matériaux flexibles abrasifs. Tapis, cartons, PVC.



SETS

STARLOCK

Ref. **2900**

### SETS MULTI-FUNCIÓN

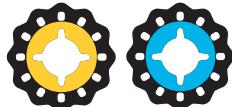
Oscillating Multi-Tool Sets  
Jeux de outils multifonction

Ref.

**2940-2910**

Ref.

**2930**



**MADERA**  
Wood Bois  
+ METAL

4 Pcs

| Cont.                                             | Nº Art. | € |
|---------------------------------------------------|---------|---|
| <b>Ref. 2940:</b><br>Mod. 00030                   |         |   |
| <b>Ref. 2910:</b><br>Mods. 00020-<br>00060-00070- | 69702   |   |



**ESPECIAL**  
Special  
Spécial

4 Pcs

| Cont.                                                      | Nº Art. | €     |
|------------------------------------------------------------|---------|-------|
| <b>Ref. 2930:</b><br>Mods. 00020-<br>00060-00070-<br>00080 |         | 69704 |



Línea 1m  
**2900**

## OSCILANTES MULTI-FUNCIÓN

Oscillating Multi-Tools  
Outils multifonction



|      |              |              |              |              |              |              |              |              |              |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Ref. | 2910         | 2910         | 2910         | 2910         | 2930         | 2930         | 2940         | 2940         | 2940         |
|      | <b>00030</b> | <b>00050</b> | <b>00070</b> | <b>00080</b> | <b>00080</b> | <b>00110</b> | <b>00020</b> | <b>00030</b> | <b>00070</b> |
| Pcs  | 3            | 3            | 3            | 3            | 3            | 3            | 3            | 3            | 3            |

Ref. 4995 - Nº Art. 72189: €

Display  
**53**

## OSCILANTES MULTI-FUNCIÓN

Oscillating Multi-Tools  
Outils multifonction



| Ref. 2940 |               |               |
|-----------|---------------|---------------|
| Ø         | Mod.<br>00020 | Mod.<br>00030 |
| Pcs       | 3             | 3             |
| Ref. 2910 |               |               |
| Ø         | Mod.<br>00030 | Mod.<br>00050 |
| Pcs       | 3             | 3             |
| Ref. 2910 |               | Ref. 2930     |
| Ø         | Mod.<br>00080 | Mod.<br>00080 |
| Pcs       | 3             | 3             |
| Ref. 2930 |               |               |
| Ø         | Mod.<br>00110 | Mod.<br>00110 |
| Pcs       | 3             | 3             |

Ref. 4995 - Nº Art. 69451: €

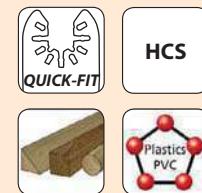
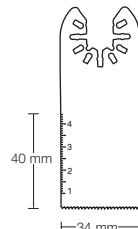




Mod 00010

Mod. Nº Art. Pack  
00010 5 69140

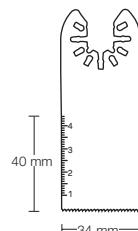
## CORTE RECTO MADERAS BLANDAS

Soft Wood Straight Cutting  
Coupe droite bois tendre**Dentado estándar. Corte en madera y plástico.****Standard teeth for wood and plastics.****Denture standard. Coupe en bois et plastique.**

Mod 00020

Mod. Nº Art. Pack  
00020 5 69141

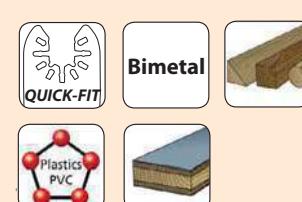
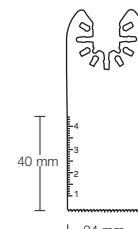
## CORTE RECTO MADERAS DURAS

Hard Wood Straight Cutting  
Coupe droite bois dur**Dentado ondulado universal. Corte en madera, plástico, pladur, metal y madera con clavos.****Universal wave teeth for wood, plastics, drywall, metal and wood with nails.****Denture vague universelle. Coupe en bois, plastique, plâtre, métal et bois avec clous.**

Mod 00030

Mod. Nº Art. Pack  
00030 5 69142

## CORTE RECTO ALTO RENDIMIENTO MADERAS DURAS

Hard Wood High Performance Straight Cutting  
Coupe droite haut rendement bois dur**Dentado japonés para corte en madera, contrachapado, plástico y otros materiales blandos.****Japanese teeth for wood, plywood, plastics and other soft materials.****Denture japonaise pour coupe en bois, tole fine métal, plastiques et autres bois tendres.**

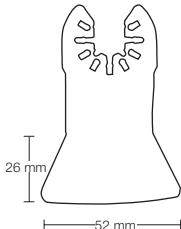
Ref. **2950**



Mod **00040**

Mod. Nº Art. Pack  
00040 5 69457

**RASCADORA**  
Scraper  
Racloir



Rascador de silicona o similares en superficies lisas y delicadas como azulejos o cristal.  
Removing of silicone or caulking against a flat surface such as tile or glass that can be easily scratched.  
Racloir silicone ou similaire pour surfaces lises et delicats comme carreaux ou verre.

Ref. **2960**

MULTI



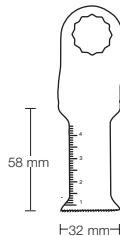
SUPERCUT

Mod **00010**

Mod. Nº Art. Pack  
00010 5 69143

**CORTE RECTO METAL / MADERA / CLAVOS**

Straight Cutting in Metal / Wood / Nails  
Coupe droite dans Métal / Bois / Clous



Dentado ondulado universal para madera, pladur, plástico, metal y madera con clavos. Mango acero inoxidable.  
Universal wave teeth for wood, drywall, plastics, metal and wood with nails. Stainless steel holder.  
Denture vague universelle pour bois, plâtre, plastique, métal et bois avec clous. Queue en acier inoxydable.

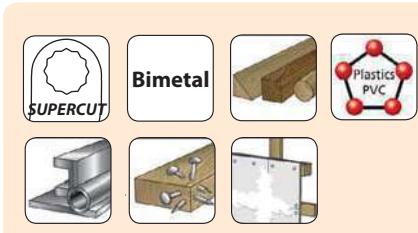
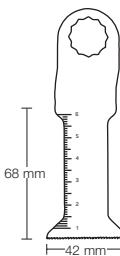


Mod **00020**

Mod. Nº Art. Pack  
00020 5 69144

**CORTE RECTO METAL / MADERA / CLAVOS**

Straight Cutting in Metal / Wood / Nails  
Coupe droite dans Métal / Bois / Clous

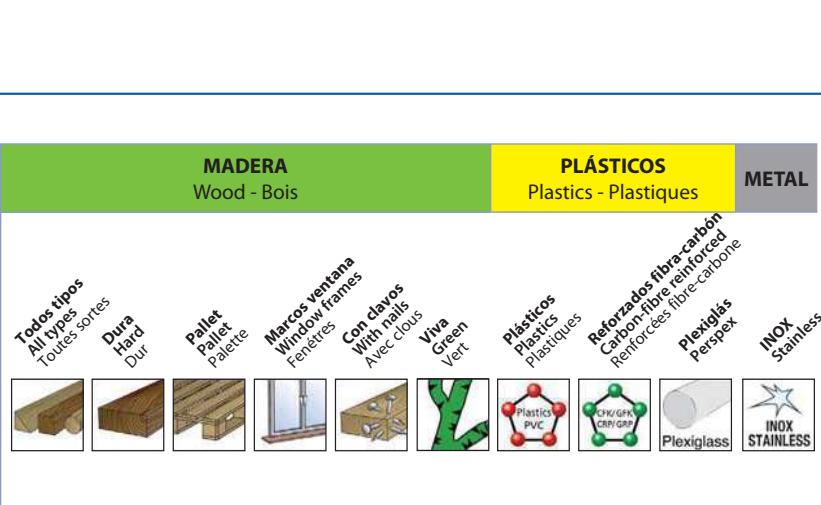
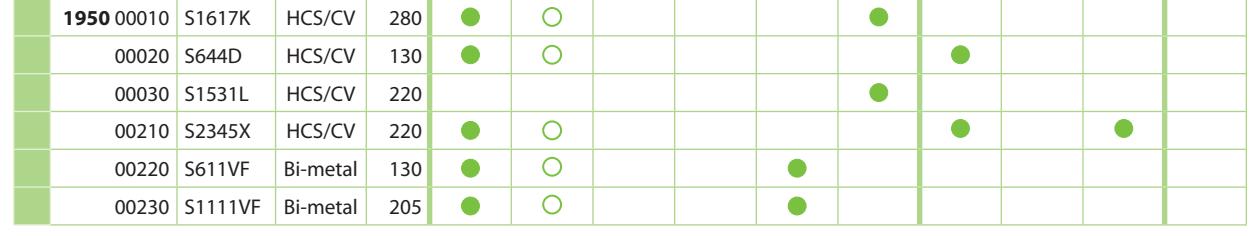
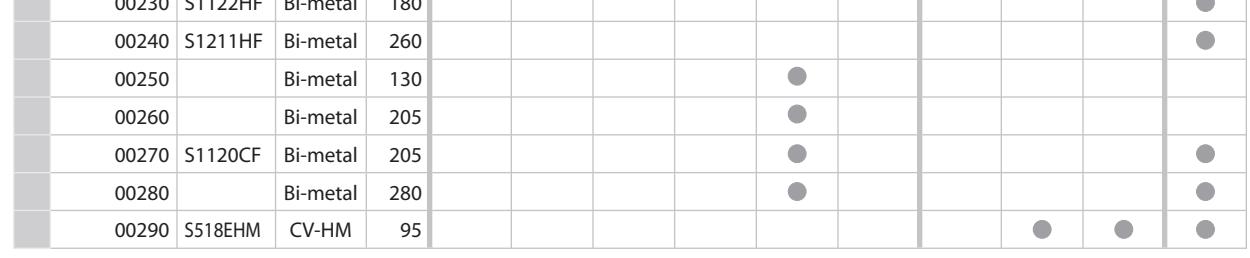
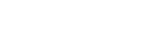
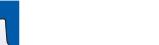
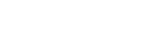
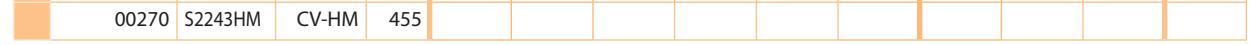
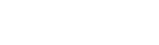
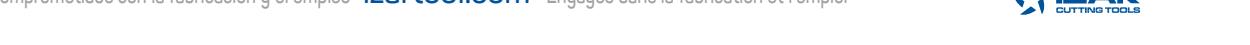
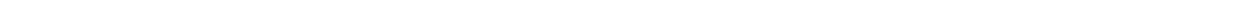


Dentado ondulado universal para madera, pladur, plástico, metal y madera con clavos. Mango acero inoxidable.  
Universal wave teeth for wood, drywall, plastics, metal and wood with nails. Stainless steel holder.  
Denture vague universelle pour bois, plâtre, plastique, métal et bois avec clous. Queue en acier inoxydable.

## CUADRO USO SIERRAS SABLE

Sabre Blade Use Table

Tableau utilisation lames scies sabre

|                                                                                    |                                                                                     |                                                                                      | MADERA<br>Wood - Bois                            | PLÁSTICOS<br>Plastics - Plastiques | METAL             |                                             |                                        |                       |                                     |                                                                                |                        |                                     |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------|-------------------|---------------------------------------------|----------------------------------------|-----------------------|-------------------------------------|--------------------------------------------------------------------------------|------------------------|-------------------------------------|
|     |     |     | Todos tipos<br>All types sortes<br>Toutes sortes | Dura<br>Hard<br>Dur                | Pallet<br>Palette | Marcos ventana<br>Window frames<br>Fenêtres | Con clavos<br>With nails<br>Avec clous | Viva<br>Green<br>Vert | Plásticos<br>Plastics<br>Plastiques | Reforzados fibra-carbón<br>Carbon fiber reinforced<br>Renforcées fibre-carbone | Plexigás<br>Plexiglass | INOX<br>Stainless<br>INOX STAINLESS |
|    |    |    | Ref. - Mod.                                      | Equiv.                             | Mat.              | I mm                                        |                                        |                       |                                     |                                                                                |                        |                                     |
|    |    |    | 1950 00010                                       | S1617K                             | HCS/CV            | 280                                         | ●                                      | ○                     |                                     | ●                                                                              |                        |                                     |
|    |    |    | 00020                                            | S644D                              | HCS/CV            | 130                                         | ●                                      | ○                     |                                     | ●                                                                              |                        |                                     |
|    |    |    | 00030                                            | S1531L                             | HCS/CV            | 220                                         |                                        |                       |                                     | ●                                                                              |                        |                                     |
|   |   |   | 00210                                            | S2345X                             | HCS/CV            | 220                                         | ●                                      | ○                     |                                     | ●                                                                              |                        |                                     |
|  |  |  | 00220                                            | S611VF                             | Bi-metal          | 130                                         | ●                                      | ○                     |                                     |                                                                                |                        |                                     |
|  |  |  | 00230                                            | S1111VF                            | Bi-metal          | 205                                         | ●                                      | ○                     |                                     | ●                                                                              |                        |                                     |
|  |  |  | 1920 00020                                       | S922EF                             | Bi-metal          | 130                                         |                                        |                       |                                     |                                                                                |                        |                                     |
|  |  |  | 00030                                            | S922BF                             | Bi-metal          | 130                                         |                                        |                       |                                     |                                                                                |                        |                                     |
|  |  |  | 00050                                            | S1025VF                            | Bi-metal          | 180                                         |                                        | ●                     |                                     | ●                                                                              |                        |                                     |
|  |  |  | 00200                                            | S1122EF                            | Bi-metal          | 180                                         |                                        |                       |                                     |                                                                                |                        |                                     |
|  |  |  | 00210                                            | S1122BF                            | Bi-metal          | 180                                         |                                        |                       |                                     |                                                                                |                        |                                     |
|  |  |  | 00220                                            | S922HF                             | Bi-metal          | 130                                         |                                        |                       |                                     |                                                                                |                        |                                     |
|  |  |  | 00230                                            | S1122HF                            | Bi-metal          | 180                                         |                                        |                       |                                     |                                                                                |                        |                                     |
|  |  |  | 00240                                            | S1211HF                            | Bi-metal          | 260                                         |                                        |                       |                                     |                                                                                |                        |                                     |
|  |  |  | 00250                                            |                                    | Bi-metal          | 130                                         |                                        |                       | ●                                   |                                                                                |                        |                                     |
|  |  |  | 00260                                            |                                    | Bi-metal          | 205                                         |                                        |                       | ●                                   |                                                                                |                        |                                     |
|  |  |  | 00270                                            | S1120CF                            | Bi-metal          | 205                                         |                                        |                       | ●                                   |                                                                                |                        |                                     |
|  |  |  | 00280                                            |                                    | Bi-metal          | 280                                         |                                        |                       | ●                                   |                                                                                |                        |                                     |
|  |  |  | 00290                                            | S518EHM                            | CV-HM             | 95                                          |                                        |                       |                                     | ●                                                                              | ●                      | ●                                   |
|  |  |  | 1960 00020                                       | S922VF                             | Bi-metal          | 130                                         | ●                                      | ○                     | ●                                   | ●                                                                              |                        |                                     |
|  |  |  | 00030                                            | S1122VF                            | Bi-metal          | 205                                         | ●                                      | ○                     | ●                                   | ●                                                                              |                        |                                     |
|  |  |  | 00040                                            | S611DF                             | Bi-metal          | 130                                         | ●                                      | ○                     |                                     |                                                                                | ●                      |                                     |
|  |  |  | 00060                                            | S1411DF                            | Bi-metal          | 280                                         | ●                                      | ○                     |                                     |                                                                                | ●                      |                                     |
|  |  |  | 00200                                            | S1414HM                            | CV-HM             | 205                                         | ○                                      | ●                     |                                     |                                                                                | ●                      |                                     |
|  |  |  | 00210                                            | S1241HM                            | CV-HM             | 280                                         | ○                                      | ●                     |                                     |                                                                                | ●                      |                                     |
|  |  |  | 00220                                            | S1211K                             | INOX              | 280                                         | ●                                      | ○                     |                                     |                                                                                |                        |                                     |
|  |  |  | 00240                                            | S1213AWP                           |                   | 280                                         |                                        |                       |                                     |                                                                                |                        |                                     |
|  |  |  | 00250                                            | S1111DF                            | Bi-metal          | 205                                         | ●                                      | ○                     |                                     |                                                                                | ●                      |                                     |
|  |  |  | 00260                                            | S1243HM                            | CV-HM             | 305                                         |                                        |                       |                                     |                                                                                |                        |                                     |
|  |  |  | 00270                                            | S2243HM                            | CV-HM             | 455                                         |                                        |                       |                                     |                                                                                |                        |                                     |



## **CUADRO USO SIERRAS SABLE**

## Sabre Blade Use Table

#### Tableau utilisation lames scies sabre

| METAL                                                                                                                                                                     | OTROS                                                                                                                      | Corte                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Tubos/Perfiles<br>Chapa/Tôles<br>No ferrosos<br>Aluminio<br>Pladur<br>Aislamiento<br>Cauchero<br>Cartón/Cuero<br>Hormigón<br>Cemento<br>Ladrillo<br>Rescate<br>Congelados | Miscellaneous - Diverse                                                                                                    | Cut - Coupe                                  |
| Tubos/Perfiles<br>Chapa/Tôles<br>Cu, Ni, Mn, Zn<br>ALU                                                                                                                    | Aislamiento<br>Pladur<br>Isolation<br>Cauchero<br>Cartón/Cuero<br>Hormigón<br>Cemento<br>Ladrillo<br>Rescate<br>Congelados | Limpio<br>Basto<br>Recto<br>Alto rendimiento |
|                                                                                                                                                                           |                                                                                                                            | Long life<br>Rough<br>Parallel<br>Fast       |
|                                                                                                                                                                           |                                                                                                                            | Longue durée<br>Ébauche<br>Recto<br>Rapide   |
|                                                                                                                                                                           |                                                                                                                            | LONG LIFE                                    |

# SIERRAS SABLE

Sabre Saw Blades

Lames scie sabre

Ref. **1950**

**MADERA** Wood Bois

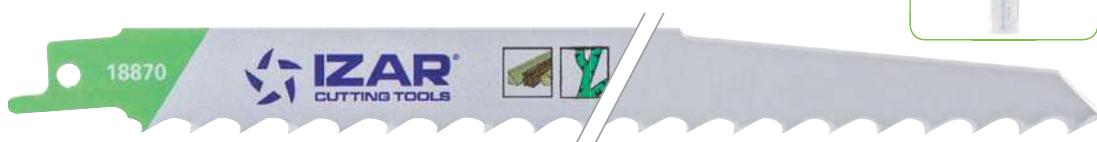
Mod **00010**

## CORTE BASTO

Rough Cut

Coupe grosse

S1617K



Dentado alterno y afilado diagonal. Corte basto para madera en general y madera viva.

Side set and diagonally sharpened toothing. Rough cutting of wood and green wood.

Denture avoyée, dépoillée et affûtée. Coupe grosse dans différents types de bois et bois verts.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Unit | Nº<br>Art. | €<br>pack |
|-------|-----|----------------------------|---------|---------|------|------------|-----------|
| 00010 | 3   | 8,5                        | 300     | 280     | 5    | 18870      |           |

Mod **00020**

## CORTE RÁPIDO RECTO

Straight Fast Cut

Coupe rapide droite

S644D



Dentado alterno y afilado diagonal. Corte rápido y recto en todo tipo de maderas, plásticos y yeso.

Side set and diagonally sharpened toothing. Fast and straight cutting for all wood types, plastics and drywall.

Denture avoyée, dépoillée et affûtée. Coupe rapide et droite dans différents types de bois, plastiques et plâtres.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Unit | Nº<br>Art. | €<br>pack |
|-------|-----|----------------------------|---------|---------|------|------------|-----------|
| 00020 | 6   | 4,2                        | 150     | 130     | 5    | 18871      |           |

Mod 00030

## MADERA VIVA

Green Wood  
Bois verts

S1531L

TPI  
4-5

Dentado alterno reforzado por inducción con afilado diagonal. Especial madera viva.

Side set and diagonally sharpened induction hardened toothing. Special for green wood.

Denture avoyée, dépouillée, affûtée et traitée inductivement. Spécial pour bois verts.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €<br>pack |
|-------|-----|----------------------------|---------|---------|---|------------|-----------|
| 00030 | 4-5 | 6,35-5                     | 300     | 280     | 5 | 18872      |           |

Mod 00210

## CORTE LIMPIO

Clean Cut  
Coupe propre

S2345X

TPI  
6

Dentado afilado triple. Corte limpio en todo tipo de maderas y plásticos.

Triply sharpened toothing. Clean cutting of all types of wood and plastics.

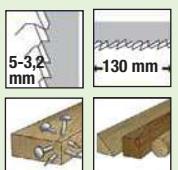
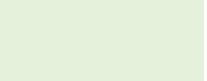
Denture triple dépouillée et affûtée. Coupe propre dans différents types de bois et plastiques.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €<br>pack |
|-------|-----|----------------------------|---------|---------|---|------------|-----------|
| 00210 | 6   | 4,2                        | 240     | 220     | 5 | 69001      |           |

Mod 00220

**CORTE RECTO ANCHO ESPECIAL**Special Thick Straight Cut  
Coupe droite très grosse

S611VF

TPI  
5-8Bi-Metal  
Made in Germany

Dentado alterno y variable. Ancho de sierra especial para corte recto en todo tipo de maderas con residuos de metales.

Side set and variable toothing. Special thick blade for straight cutting of all wood types with few metal residues.

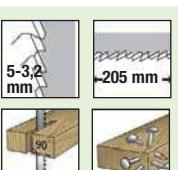
Denture fraisée, affûtée et variable. Lame très grosse pour coupe droite dans différents types de bois.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | No<br>Art. | €<br>pack |
|-------|-----|----------------------------|---------|---------|------------|-----------|
| 00220 | 5,8 | 5-3,2                      | 150     | 130     | 5          | 69002     |

Mod 00230

**CORTE RECTO LARGO ANCHO ESPECIAL**Special Thick Long Straight Cut  
Coupe droite longue très grosse

S1111VF

TPI  
5-8

Dentado alterno y variable. Ancho de sierra especial para corte recto en todo tipo de maderas con residuos de metales.

Side set and variable toothing. Special thick blade for straight cutting of all wood types with few metal residues.

Denture fraisée, affûtée et variable. Lame très grosse pour coupe droite dans différents types de bois.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | No<br>Art. | €<br>pack |
|-------|-----|----------------------------|---------|---------|------------|-----------|
| 00230 | 5-8 | 5-3,2                      | 225     | 205     | 5          | 69003     |

Mod 00020

**UNIVERSAL CORTE FLEXIBLE**Universal Flexible Cut  
Universel coupe flexible

S922EF

TPI  
18

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|-------|-----|----------------------------|---------|---------|------------|-----------|
| 00020 | 18  | 1,4                        | 150     | 130     | 5          | 18865     |

**Dentado fresado y ondulado. Sierra flexible y universal para aceros e inoxidables.**

Milled teeth and wavy set. Flexible and universal blade for steel and stainless steel.

Dents fraisés et ondulés. Lame flexible et universel pour aciers et Inox.

Mod 00200

**UNIVERSAL CORTE FLEXIBLE LARGO**Universal Long Flexible Cut  
Universel coupe flexible longue

S1122EF

TPI  
18

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|-------|-----|----------------------------|---------|---------|------------|-----------|
| 00200 | 18  | 1,4                        | 200     | 180     | 5          | 69004     |

**Dentado fresado y ondulado. Sierra flexible y universal para aceros e inoxidables.**

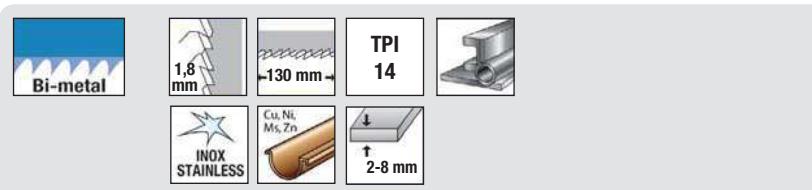
Milled teeth and wavy set. Flexible and universal blade for steel and stainless steel.

Dents fraisés et ondulés. Lame flexible et universelle pour aciers et Inox.

Mod 00030

**CORTE ACEROS, INOX, NO FERROSOS**Steel, Stainless, Non-Ferrous Cut  
Coupe Aciers, Inox, Non ferreux

S922BF



**Dentado fresado y ondulado. Sierra flexible y universal para aceros, inoxidables y metales no ferrosos.**

Milled teeth and wavy set. Flexible and universal blade for steel, stainless steel and non-ferrous metals.

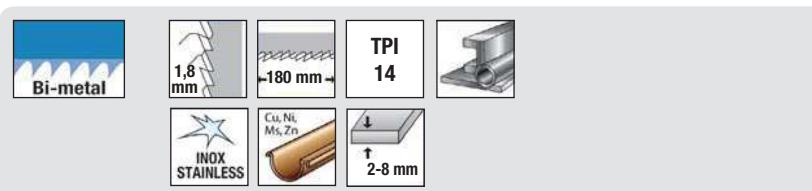
Dents fraisés et ondulés. Lame flexible et universelle pour aciers, Inox et métaux non ferreux.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|-------|-----|----------------------------|---------|---------|------------|-----------|
| 00030 | 14  | 1,8                        | 150     | 130     | 5          | 18866     |

Mod 00210

**CORTE LARGO ACEROS, INOX, NO FERROSOS**Steel, Stainless, Non-Ferrous Long Cut  
Coupe longue Aciers, Inox, Non ferreux

S1122BF



**Dentado fresado y ondulado. Sierra flexible y universal para aceros, inoxidables y metales no ferrosos.**

Milled teeth and wavy set. Flexible and universal blade for steel, stainless steel and non-ferrous metals.

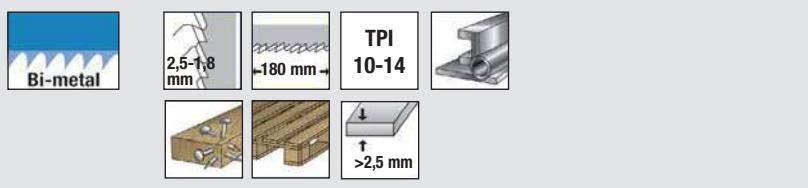
Dents fraisés et ondulés. Lame flexible et universelle pour aciers, Inox et métaux non ferreux.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|-------|-----|----------------------------|---------|---------|------------|-----------|
| 00210 | 14  | 1,8                        | 200     | 180     | 5          | 69005     |

Mod 00050

**CORTE RECTO ANCHO ESPECIAL PALLETS**Pallet Special Thick Straight Cut  
Coupe droite très grosse palettes

S1025VF



**Dentado fresado, ondulado y variable. Ancho de sierra especial para corte recto en todo tipo de maderas con residuos de metales. Especial reparación de pallets.**

Side set, wavy and variable toothing. Special thick blade for straight cutting of all wood types with few metal residues. Special for pallet repair.

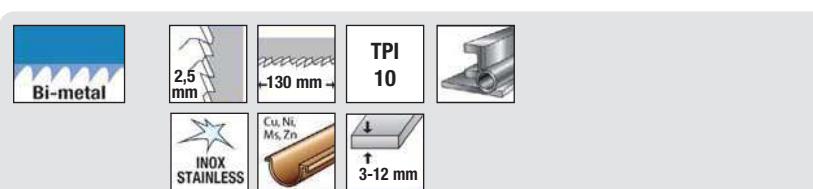
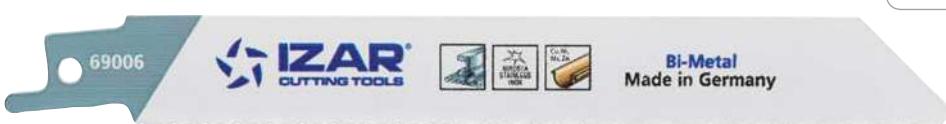
Denture ondulé et variable. Lame très grosse pour coupe droite dans différents types de bois. Spécial pour réparation de palettes.

| Mod.  | TPI   | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|-------|-------|----------------------------|---------|---------|------------|-----------|
| 00050 | 10-14 | 2,5-1,8                    | 200     | 180     | 5          | 18868     |

Mod 00220

**CORTE ACEROS, INOX, NO FERROSOS**Steel, Stainless, Non-Ferrous Cut  
Coupe Aciers, Inox, Non ferreux

S922HF



**Dentado fresado y ondulado. Sierra flexible y universal para aceros, inoxidables y metales no ferrosos.**

Milled teeth and wavy set. Flexible and universal blade for steel, stainless steel and non-ferrous metals.

Dents fraisés et ondulés. Lame flexible et universelle pour aciers, Inox et métaux non ferreux.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|-------|-----|----------------------------|---------|---------|------------|-----------|
| 00220 | 10  | 2,5                        | 150     | 130     | 5          | 69006     |

Mod 00230

**CORTE LARGO ACEROS, INOX, NO FERROSOS**Steel, Stainless, Non-Ferrous Long Cut  
Coupe longue Aciers, Inox, Non ferreux

S1122HF



**Dentado fresado y ondulado. Sierra flexible y universal para aceros, inoxidables y metales no ferrosos.**

Milled teeth and wavy set. Flexible and universal blade for steel, stainless steel and non-ferrous metals.

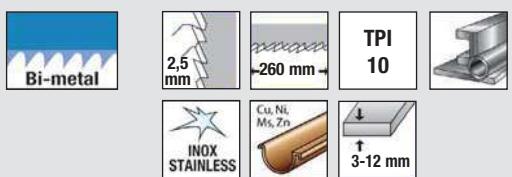
Dents fraisés et ondulés. Lame flexible et universelle pour aciers, Inox et métaux non ferreux.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|-------|-----|----------------------------|---------|---------|------------|-----------|
| 00230 | 10  | 2,5                        | 200     | 180     | 5          | 69007     |

Mod 00240

**CORTE ACEROS, INOX, NO FERROSOS**Steel, Stainless, Non-Ferrous Cut  
Coupe Aciers, Inox, Non ferreux

S1211HF



**Dentado fresado y ondulado. Sierra flexible y universal para aceros, inoxidables y metales no ferrosos.**

Milled teeth and wavy set. Flexible and universal blade for steel, stainless steel and non-ferrous metals.

Dents fraisés et ondulés. Lame flexible et universelle pour aciers, Inox et métaux non ferreux.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|-------|-----|----------------------------|---------|---------|------------|-----------|
| 00240 | 10  | 2,5                        | 280     | 260     | 5          | 69008     |

Mod 00260

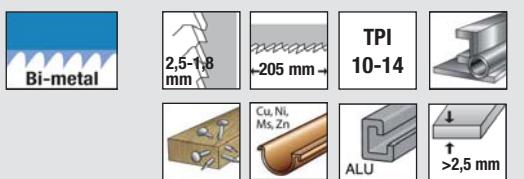
**CORTE FLEXIBLE LARGO ALTO RENDIMIENTO**

Long Life Long Flexible Cut

Coupe flexible longue longue durée



S123XF



Dentado fresado y ondulado con geometría especial.  
 Sierra flexible de alto rendimiento en metal y madera con residuos de metal.

Special geometry milled teeth and wavy set. High performance flexible blade for steel and wood with metal residues.

Dents fraîsés et ondulés avec géométrie spéciale. Lame flexible, haut rendement dans aciers et bois.

| Mod.  | TPI   | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|-------|-------|----------------------------|---------|---------|------------|-----------|
| 00260 | 10-14 | 2,5-1,8                    | 225     | 205     | 5          | 69011     |

Mod 00280

**RESCATE Y DESMONTAJE CORTE LARGO**

Long Cut Rescue &amp; Dismantling

Secours et démontage coupe longue



Dentado fresado y alterno. Sierra robusta con ancho especial para corte recto y rápido en acero, todo tipo de maderas con residuos de metal. Especial rescate y desmontaje.

Milled and side set teeth. Special thick and robust blade for fast and straight cutting of steel and all types of wood with metal residues. Especial for rescue and dismantling.

Dents fraîsés et ondulés. Lame très épaisse pour coupe droite et rapide dans aciers et différents types de bois. Spéciale pour secours et démontages.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|-------|-----|----------------------------|---------|---------|------------|-----------|
| 00280 | 10  | 2,5                        | 300     | 280     | 5          | 69014     |



Ref. 1960

## ESPECIAL Special Spécial

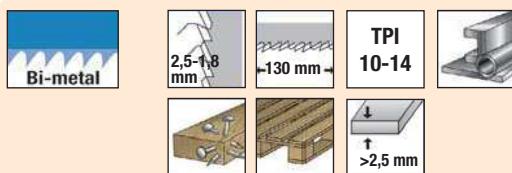
SIERRAS SABLE  
Sabre Saw Blades  
Lames scie sabre

Mod 00020

### REPARACIÓN PALLETS

Pallet Repair  
Réparation de palettes

S922VF



Dentado fresado, ondulado y variable. Todo tipo de maderas con residuos de metales. Especial reparación de pallets.

Side set, wavy and variable toothing. All wood types with metal residues. Special for pallet repair.

Denture fraîchée, ondulé et variable. Différents types de bois. Spéciale pour réparation de palettes.

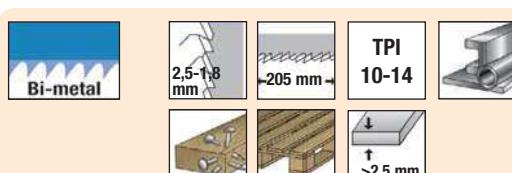
| Mod.  | TPI   | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|-------|-------|----------------------------|---------|---------|------------|-----------|
| 00020 | 10-14 | 2,5-1,8                    | 150     | 130     | 5          | 18874     |

Mod 00030

### REPARACIÓN PALLETS CORTE LARGO

Long Cut Pallet Repair  
Réparation de palettes coupe longue

S1122VF



Dentado fresado, ondulado y variable. Todo tipo de maderas con residuos de metales. Especial reparación de pallets.

Side set, wavy and variable toothing. All wood types with metal residues. Special for pallet repair.

Denture fraîchée, ondulé et variable. Différents types de bois. Spéciale pour réparation de palettes.

| Mod.  | TPI   | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|-------|-------|----------------------------|---------|---------|------------|-----------|
| 00030 | 10-14 | 2,5-1,8                    | 225     | 205     | 5          | 18875     |

Ref. 1960

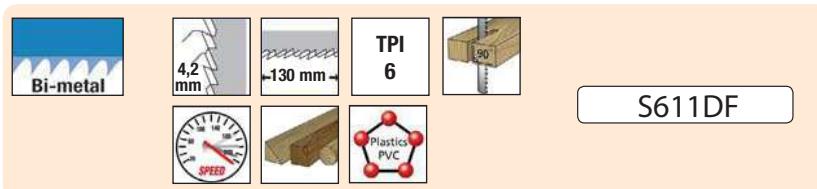
## ESPECIAL Special Spécial

SIERRAS SABLE  
Sabre Saw Blades  
Lames scie sabre

Mod 00040

### CORTE FLEXIBLE RECTO RÁPIDO ALTO RENDIMIENTO

Long Life Fast Straight Flexible Cut  
Coupe flexible droite rapide longue durée



S611DF



| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Art. | Nº<br>pack | € |
|-------|-----|----------------------------|---------|---------|------|------------|---|
| 00040 | 6   | 4,2                        | 150     | 130     | 5    | 18876      |   |

Dentado fresado y alterno. Sierra flexible para corte recto y rápido en todo tipo de maderas y plásticos. Alto rendimiento.

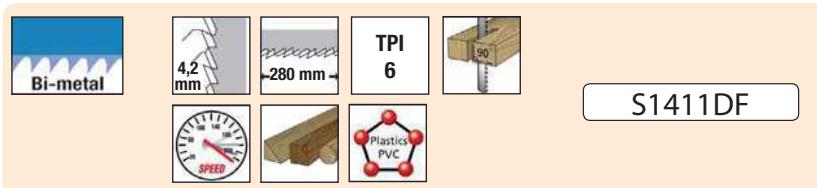
Side set, milled teeth. Flexible blade for fast and straight cutting of all types of woods and plastics. Long lifetime.

Denture fraisée et avoyée. Lame flexible pour coupe droite et rapide dans différents types de bois et plastiques. Durée de vie plus longue.

Mod 00060

### CORTE EXTRA LARGO FLEXIBLE RECTO RÁPIDO ALTO RENDIMIENTO

Long Life Fast Straight Flexible Extra Long Cut  
Coupe extra longue flexible droite rapide longue durée



S1411DF



| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Art. | Nº<br>pack | € |
|-------|-----|----------------------------|---------|---------|------|------------|---|
| 00060 | 6   | 4,2                        | 300     | 280     | 5    | 18878      |   |

Dentado fresado y alterno. Sierra flexible para corte recto y rápido en todo tipo de maderas y plásticos. Alto rendimiento.

Side set, milled teeth. Flexible blade for fast and straight cutting of all types of woods and plastics. Long lifetime.

Denture fraisée et avoyée. Lame flexible pour coupe droite et rapide dans différents types de bois et plastiques. Durée de vie plus longue.



Ref. 1960

## ESPECIAL Special Spécial

SIERRAS SABLE  
Sabre Saw Blades  
Lames scie sabre

Mod 00200

### DENTADO TUNGSTENO

Tungsten Teeth  
Denture Tungstène



S1141HM



TPI  
3



Dentado de tungsteno. Especial madera dura, hormigón poroso y productos reforzados con fibra de vidrio.

Side set, milled teeth. Special for hard wood, gas-formed concrete and glass-fibre reinforced products.

Denture fraisée et avoyée. Spéciale pour bois durs, bétons et matières plastiques renforcées avec fibres de verre.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|-------|-----|----------------------------|---------|---------|------------|-----------|
| 00200 | 3   | 8,5                        | 225     | 205     | 1          | 69017     |

Mod 00210

### DENTADO TUNGSTENO CORTE LARGO

Long Cut Tungsten Teeth  
Denture Tungstène coupe longue



S1241HM



TPI  
3



Dentado de tungsteno. Especial madera dura, hormigón poroso y productos reforzados con fibra de vidrio.

Side set, milled teeth. Special for hard wood, gas-formed concrete and glass-fibre reinforced products.

Denture fraisée et avoyée. Spéciale pour bois durs, bétons et matières plastiques renforcées avec fibres de verre.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|-------|-----|----------------------------|---------|---------|------------|-----------|
| 00210 | 3   | 8,5                        | 300     | 280     | 1          | 69019     |

Ref. **1960**

## ESPECIAL Special Spécial

SIERRAS SABLE  
Sabre Saw Blades  
Lames scie sabre

Mod **00260**

### DEMOLICIÓN CORTE LARGO TCT

TCT Long Cut Demolition

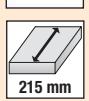
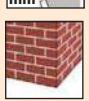
Démolition coupe longue TCT



S1243HM



TPI  
2



Dentado de tungsteno. Especial bloques de hormigón poroso, ladrillo, fibrocemento.

Tungsten teeth. Special for aerated concrete blocks, brick, fibre cement.

Denture Tungstène. Spécial pour blocs de béton cellulaire, brique, amiante-ciment.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|-------|-----|----------------------------|---------|---------|------------|-----------|
| 00260 | 2   | 12,7                       | 305     | 250     | 1          | 72626     |

Mod **00270**

### DEMOLICIÓN CORTE EXTRA LARGO TCT

TCT Extra Long Cut Demolition

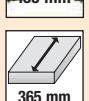
Démolition coupe extra longue TCT



S2243HM



TPI  
2



Dentado de tungsteno. Especial bloques de hormigón poroso, ladrillo, fibrocemento.

Tungsten teeth. Special for aerated concrete blocks, brick, fibre cement.

Denture Tungstène. Spécial pour blocs de béton cellulaire, brique, amiante-ciment.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|-------|-----|----------------------------|---------|---------|------------|-----------|
| 00270 | 2   | 12,7                       | 455     | 400     | 1          | 72627     |

Ref. 1960

## ESPECIAL Special Spécial

SIERRAS SABLE  
Sabre Saw Blades  
Lames scie sabre

Mod 00220

### HIELO Y COMIDA CONGELADA

Ice & Frozen Food

Glaces et produits surgelés



S1211K



Dentado fresado y alterno de acero inoxidable. Especial comida congelada, hielo y madera.

Side set, milled teeth. Special for frozen food, ice and wood.

Denture fraîchée et avoyée. Spéciale pour produits surgelés, glaces et bois.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Unit<br>cube | Nº<br>Art. | €<br>pack |
|-------|-----|----------------------------|---------|---------|--------------|------------|-----------|
| 00220 | 4   | 6,35                       | 300     | 280     | 1            | 69020      |           |

Mod 00240

### CORTE RÁPIDO MUY LIMPIO AISLAMIENTO

Insulation Very Clean Fast Cut

Coupe rapide très propre isolant



S1213AWP



Dentado ondulado doble. Corte rápido y muy limpio en lana de roca, espuma, poliestireno, cuero, caucho, papel, cartón, alfombra.

Side set, milled teeth. Fast and very clean cutting of mineral rock wool, foam, polystyrene, rubber, paper, carton, carpet.

Denture fraîchée et avoyée. Coupe rapide et très précise dans mousses, polystyrène, cuirs, caoutchouc, papiers, cartons, tapis.

| Mod.  | L<br>mm | I<br>mm | Unit<br>cube | Nº<br>Art. | €<br>pack |
|-------|---------|---------|--------------|------------|-----------|
| 00240 | 300     | 280     | 5            | 69024      |           |

Ref. **1960**

## ESPECIAL Special Spécial

**SIERRAS SABLE**  
Sabre Saw Blades  
Lames scie sabre

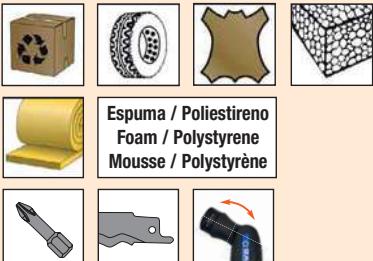
Mod **00300**

### MANGO MULTIHERRAMIENTA

Multi Tool Handle  
Queue multi-outils



HCS /  
CV



#### MANGO MULTIHERRAMIENTA 2 en 1: atornillar y serrar

- Mango inclinable, facilita la transmisión de la fuerza
- Para lugares de difícil acceso
- Apto para sierras de sable y puntas de atornillar estándar
- Depósito para 6 puntas de atornillas (no incluidas)
- Fácil cambio de herramienta gracias a su anillo de montaje giratorio.
- Apto para uso manual en madera con Ref. 1950 mod. 00020, en metal con Ref. 1920 mod. 00200, en aislamiento y otros materiales con Ref. 1960 mod. 00240 y mod. 00280.

| Mod.  | Cont.                                                                                                                                            | Unit | Nº Art. | € pack |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------|------|---------|--------|
| 00300 | 1 x Mango / Handle / Queue<br>1 x Ref. 1960 - 00240<br>(Art. 69024) l=280<br>S1213AWP<br>1 x Ref. 1960 - 00280<br>(Art. 76688) l=205<br>S1113AWP | 1    | 72851   |        |

#### MULTITOOL HANDLE 2 in 1: screw and saw

- Inclinable handle for better power transmission
- Useful at places which are difficult to Access/reach
- Suitable for reciprocating saw blades and standard screw bits
- Bit magazine for 6 bits (not included)
- Easy tool change by means of a/its rotating mounting ring
- Suitable for manual use in wood with Ref. 1950 mod. 00020, in metal with Ref. 1920 mod. 00200 and in insulation and other materials with Ref. 1960 mod. 00240 and mod. 00280.

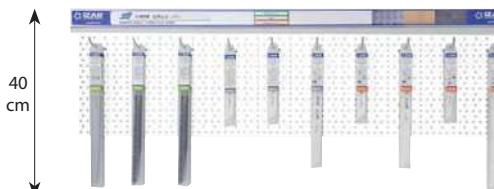
#### QUEUE MULTI-OUTILS 2 en 1: viser et serrer

- Queue réclinable: il rend plus facile la transmission des forces
- Pour des endroits de difficile accès
- Convenable pour scies sabres et embouts standards
- Capacité 6 embouts (pas compris)
- Changement d'outil facile grâce à sa bague de montage rotative
- Conseillé pour utilisation à main en bois avec ref. 1950 mod. 00020, en métal avec ref. 1920 mod. 00200, en isolation et autres matériaux avec mod. 00240 et mod. 00280.

Línea 1m  
**19SS**

### SIERRAS SABLE

Sabre Saw Blades  
Lames scie sabre



| Ref.                       | 1920 | 1920 | 1920 | 1950 | 1950 | 1950 | 1960 | 1960 | 1960 |
|----------------------------|------|------|------|------|------|------|------|------|------|
| Pcs                        | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    |
| Ref. 4995 - Nº Art. 72191: |      |      |      |      |      |      |      |      |      |



# CUADRO USO SIERRAS CALAR

Jig Saw Blade Use Table

Tableau utilisation lames scies sauteuses

|                        |             |          |          |      | MADERA - Wood - Bois         |       |                                             |       |                |       |              | PLÁSTICOS |                             |       |                                  |       |                          |       |                       |       |                         |       |                                                            |       |
|------------------------|-------------|----------|----------|------|------------------------------|-------|---------------------------------------------|-------|----------------|-------|--------------|-----------|-----------------------------|-------|----------------------------------|-------|--------------------------|-------|-----------------------|-------|-------------------------|-------|------------------------------------------------------------|-------|
| Material               | Ref. - Mod. | Equiv.   | Mat.     | I mm | Todos tipos<br>Altres sortes |       | Aglomerado laminado<br>Panneau à revêtement |       | Blanda<br>Soft |       | Dura<br>Hard |           | Contrachapado<br>Planchette |       | Parquet laminado<br>Parquet lamé |       | Con clavos<br>Avec clous |       | Aglomerado<br>Panneau |       | Plásticos<br>Plastiques |       | Reforzados<br>Fibra-carbono<br>Réinforced<br>Fibre-carbone |       |
|                        |             |          |          |      | Adecuado                     | Ideal | Adecuado                                    | Ideal | Adecuado       | Ideal | Adecuado     | Ideal     | Adecuado                    | Ideal | Adecuado                         | Ideal | Adecuado                 | Ideal | Adecuado              | Ideal | Adecuado                | Ideal | Adecuado                                                   | Ideal |
| Madera<br>Wood - Bois  | 1940 00010  | T119B    | HCS/CV   | 50   |                              |       |                                             |       | ●              |       |              |           |                             |       |                                  |       |                          |       |                       | ●     |                         |       |                                                            |       |
|                        | 00020       | T119BO   | HCS/CV   | 50   |                              |       |                                             |       | ●              |       |              |           |                             |       |                                  |       |                          |       | ●                     |       |                         |       | ●                                                          |       |
|                        | 00030       | T111C    | HCS/CV   | 75   |                              |       |                                             |       | ●              |       |              |           |                             |       |                                  |       |                          |       |                       | ●     |                         |       | ●                                                          | ●     |
|                        | 00040       | T144D    | HCS/CV   | 75   | ●                            |       |                                             |       | ●              |       | ○            |           |                             |       |                                  |       |                          |       |                       |       | ●                       |       |                                                            | ●     |
|                        | 00050       | T244D    | HCS/CV   | 75   | ●                            |       |                                             |       | ●              |       | ○            |           |                             |       |                                  |       |                          |       |                       |       | ●                       |       |                                                            | ●     |
|                        | 00060       | T101B    | HCS/CV   | 75   | ●                            |       |                                             |       | ●              |       | ○            |           |                             |       |                                  |       |                          |       |                       | ○     |                         |       | ●                                                          | ●     |
|                        | 00070       | T101BR   | HCS/CV   | 75   | ●                            |       |                                             |       | ●              |       | ○            |           |                             |       |                                  |       |                          |       |                       | ○     |                         |       | ○                                                          | ●     |
|                        | 00080       | T101D    | HCS/CV   | 75   | ●                            |       |                                             |       | ●              |       | ○            |           |                             |       |                                  |       |                          |       |                       | ○     |                         |       | ○                                                          | ●     |
|                        | 00090       | T301CD   | HCS/CV   | 105  | ●                            |       |                                             |       | ●              |       | ○            |           |                             |       |                                  |       |                          |       |                       | ○     |                         |       | ○                                                          | ●     |
|                        | 00100       |          | HCS/CV   | 75   |                              | ●     |                                             |       | ●              |       | ●            |           |                             |       |                                  |       |                          |       | ●                     |       |                         | ●     |                                                            |       |
|                        | 00110       | T144DF   | Bi-metal | 75   | ●                            |       |                                             |       | ●              |       | ○            |           |                             |       |                                  |       |                          |       |                       | ○     |                         |       | ○                                                          |       |
|                        | 00130       | T344D    | HCS/CV   | 105  | ●                            |       |                                             |       | ●              |       | ○            |           |                             |       |                                  |       |                          |       |                       | ○     |                         |       | ○                                                          |       |
|                        | 00140       | T234X    | Bi-metal | 91   | ●                            |       |                                             |       | ●              |       | ○            |           |                             |       |                                  |       |                          |       |                       | ○     |                         |       | ○                                                          | ●     |
|                        | 00150       | T345XF   | Bi-metal | 105  | ○                            |       |                                             |       | ○              |       | ○            |           |                             |       |                                  |       |                          |       |                       | ●     |                         |       | ○                                                          |       |
|                        | 00160       |          | HCS/CV   | 75   | ●                            |       |                                             |       | ●              |       | ●            |           |                             |       |                                  |       |                          |       |                       | ●     |                         |       | ●                                                          |       |
|                        | 00170       | T308BCP  | HCS/CV   | 105  |                              | ●     |                                             |       | ●              |       | ●            |           |                             |       |                                  |       |                          |       | ●                     |       |                         | ●     |                                                            | ●     |
|                        | 00180       | T301B    | HCS/CV   | 91   | ●                            |       |                                             |       | ●              |       | ●            |           | ○                           |       |                                  |       |                          |       | ○                     |       |                         | ○     |                                                            | ●     |
|                        | 00200       | T744D    | HCS/CV   | 155  | ●                            |       |                                             |       | ●              |       | ●            |           | ○                           |       |                                  |       |                          |       |                       | ●     |                         |       |                                                            |       |
| Metal<br>Metal - Métal | 1910 00020  | T118A    | HSS      | 55   |                              |       |                                             |       |                |       |              |           |                             |       |                                  |       |                          |       |                       |       |                         |       |                                                            |       |
|                        | 00040       | T318A    | HSS      | 105  |                              |       |                                             |       |                |       |              |           |                             |       |                                  |       |                          |       |                       |       |                         |       |                                                            |       |
|                        | 00050       | T118B    | HSS      | 55   |                              |       |                                             |       |                |       |              |           |                             |       |                                  |       |                          |       |                       |       |                         |       |                                                            |       |
|                        | 00060       | T318B    | HSS      | 105  |                              |       |                                             |       |                |       |              |           |                             |       |                                  |       |                          |       |                       |       |                         |       |                                                            |       |
|                        | 00070       | T118AF   | Bi-metal | 55   |                              |       |                                             |       |                |       |              |           |                             |       |                                  |       |                          |       |                       |       |                         |       |                                                            |       |
|                        | 00090       | T118BF   | Bi-metal | 55   |                              |       |                                             |       |                |       |              |           |                             |       |                                  |       |                          |       |                       |       |                         |       |                                                            |       |
|                        | 00100       | T318BF   | Bi-metal | 105  |                              |       |                                             |       |                |       |              |           |                             |       |                                  |       |                          |       |                       |       |                         |       |                                                            |       |
|                        | 00110       | T127D    | HSS      | 75   |                              |       |                                             |       |                |       |              |           |                             |       |                                  |       |                          |       |                       |       |                         |       |                                                            | ●     |
|                        | 00120       | T118AHM  | CV-HM    | 50   |                              |       |                                             |       |                |       |              |           |                             |       |                                  |       |                          |       |                       |       |                         |       |                                                            |       |
|                        | 00200       | T718AF   | Bi-metal | 155  |                              |       |                                             |       |                |       |              |           |                             |       |                                  |       |                          |       |                       |       |                         |       |                                                            |       |
| Especial<br>Special    | 1930 00020  | T127DF   | Bi-metal | 75   |                              |       |                                             |       |                |       |              |           |                             |       |                                  |       |                          |       |                       |       |                         |       | ●                                                          |       |
|                        | 00030       | T130RIFF | CV-HM    | 54   |                              |       |                                             |       |                |       |              |           |                             |       |                                  |       |                          |       |                       |       |                         |       |                                                            | ●     |
|                        | 00200       | T341HM   | CV-HM    | 105  |                              |       |                                             |       |                |       |              |           |                             |       |                                  |       |                          | ○     | ●                     |       |                         |       |                                                            | ●     |
| Madera<br>Wood - Bois  | 1945 00030  | U111C    | HCS/CV   | 75   |                              |       |                                             |       |                | ●     |              |           |                             |       |                                  |       |                          |       |                       | ●     |                         |       | ●                                                          |       |
|                        | 00040       | U144D    | HCS/CV   | 75   | ●                            |       |                                             |       |                | ●     |              | ●         |                             | ○     |                                  |       |                          |       |                       | ●     |                         |       | ●                                                          |       |
|                        | 00060       | U101B    | HCS/CV   | 75   | ●                            |       |                                             |       |                | ●     |              | ●         |                             | ○     |                                  |       |                          |       |                       | ●     |                         |       | ●                                                          |       |
|                        | 00070       | U101BR   | HCS/CV   | 75   | ●                            |       |                                             |       |                | ●     |              | ●         |                             | ○     |                                  |       |                          |       |                       | ●     |                         |       | ●                                                          |       |
| Metal<br>Metal         | 1915 00020  | U118A    | HSS      | 55   |                              |       |                                             |       |                |       |              |           |                             |       |                                  |       |                          |       |                       |       |                         |       |                                                            | ●     |
|                        | 00070       | U118AF   | Bi-metal | 55   |                              |       |                                             |       |                |       |              |           |                             |       |                                  |       |                          |       |                       |       |                         |       |                                                            |       |
|                        | 00110       | U127D    | Bi-metal | 75   |                              |       |                                             |       |                |       |              |           |                             |       |                                  |       |                          |       |                       |       |                         |       |                                                            | ●     |



## **CUADRO USO SIERRAS CALAR**

## Jig Saw Blade Use Table

**Plastics - Plastiques**

**METAL**

**OTROS - Miscellaneous - Diverse**

**Corte - Cut - Coupe**

| Plexiglas / Perspex | Varicor / Corian | INOX / Stainless | Tubos / Perfiles / Pipes / Profiles | Chapa / Sheets | No ferrosos / Non ferreux | Aluminio / Aluminum | Sandwich | Vidrio / Cerámica / Glass / Ceramics | Hormigón / Cemento / Concrete / Cement | Aislamiento / Isolation | Limpio / Clean | Basto / Rough | Curvo / Curve | Recto / Parallel | Rápido / Fast | Inverso / Reverse | Alto rendimiento / Long life |
|---------------------|------------------|------------------|-------------------------------------|----------------|---------------------------|---------------------|----------|--------------------------------------|----------------------------------------|-------------------------|----------------|---------------|---------------|------------------|---------------|-------------------|------------------------------|
|                     |                  |                  |                                     |                |                           |                     |          |                                      |                                        |                         |                |               |               |                  |               |                   |                              |

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# SIERRAS CALAR

Jig Saw Blades

Lames scies sauteuses

Ref. **1940**

MADERA Wood Bois

Mod **010**

## BÁSICA CORTE RECTO

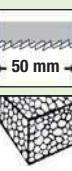
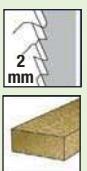
Basic Straight Cut

Basique coupe droite

T119B



NEW  
PACKAGING!



| Mod. | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | No<br>Art. | €<br>pack |
|------|-----|----------------------------|---------|---------|------------|-----------|
| 010  | 13  | 2                          | 76      | 50      | 3          | 14129     |

Dentado fresado y ondulado. Corte recto y limpio en madera blanda, madera contrachapada, tabla de viruta prensada, madera estratificada, tablero de fibra y materiales de aislamiento.

Milled teeth and wavy set. Straight and clean cutting of soft wood, plywood, chipboard, wood core plywood, fibre board and insulation materials.

Dents fraîsés et ondulés. Coupe droite et propre dans bois tendres, contre-plaqués, agglomérés, fibres et matériaux d'isolation.

Mod **020**

## BÁSICA CORTE CURVO

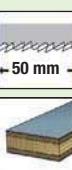
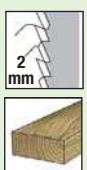
Basic Curve Cut

Basique coupe courbe

T119BO



NEW  
PACKAGING!



| Mod. | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | No<br>Art. | €<br>pack |
|------|-----|----------------------------|---------|---------|------------|-----------|
| 020  | 13  | 2                          | 76      | 50      | 3          | 14138     |

Dentado fresado y ondulado. Corte curvo y limpio en madera blanda, madera contrachapada, tabla de viruta prensada, madera estratificada, tablero de fibra y materiales de aislamiento.

Milled teeth and wavy set. Curve and clean cutting of soft wood, plywood, chipboard, wood core plywood, fibre board and insulation materials.

Dents fraîsés et ondulés. Coupe courbe et propre dans bois tendres, contre-plaqués, agglomérés, fibres et matériaux d'isolation.

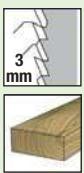
Mod 030

**BÁSICA CORTE BASTO**Basic Rough Cut  
Basique coupe gros

T111C



NEW PACKAGING!



**Dentado alterno. Corte basto y rápido en madera blanda, tabla de viruta prensada, madera estratificada, tablero de fibra y plástico.**

**Side set toothing. Rough and fast cutting of soft wood, chipboard, wood core plywood, fibre board and plastics.**

**Denture avoyée et affûtée. Coupe grosso et rapide dans bois tendres, agglomérés, fibres et plastiques.**

| Mod. | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|------|-----|----------------------------|---------|---------|------------|-----------|
| 030  | 8,5 | 3                          | 100     | 75      | 3          | 14221     |

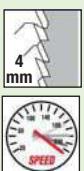
Mod 040

**CORTE RÁPIDO**Fast Cut  
Coupe rapide

T144D



NEW PACKAGING!



**Dentado alterno y afilado diagonal. Corte rápido en todo tipo de maderas.**

**Side set and diagonally sharpened toothing. Fast cutting for all wood types.**

**Denture avoyée, dépouillée et affûtée. Coupe rapide dans différents types de bois.**

| Mod. | TPI  | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|------|------|----------------------------|---------|---------|------------|-----------|
| 040  | 6,35 | 4                          | 100     | 75      | 3          | 14230     |



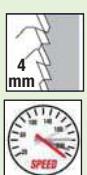
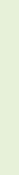
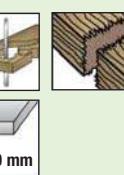
Mod 050

**CORTE RÁPIDO CURVO**

Curve Fast Cut

Coupe rapide courbe

T244D

NEW  
PACKAGING!TPI  
6,35

Dentado alterno y afilado diagonal. Corte rápido y curvo en todo tipo de maderas.

Side set and diagonally sharpened toothing. Fast and curve cutting for all wood types.

Denture avoyée, dépoillée et affûtée. Coupe rapide et courbe dans différents types de bois.

| Mod. | TPI  | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €<br>pack |
|------|------|----------------------------|---------|---------|---|------------|-----------|
| 050  | 6,35 | 4                          | 100     | 75      | 3 | 14231      |           |

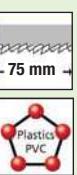
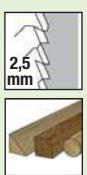
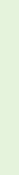
Mod 060

**CORTE LIMPIO**

Clean Cut

Coupe propre

T101B

NEW  
PACKAGING!TPI  
10

Sierra rectificado cónico y dentado afilado diagonal. Corte limpio en todo tipo de maderas y plásticos.

Conically ground blade with diagonally sharpened teeth. Clean cutting for all wood types and plastics.

Corps de la lame conique et denture dépoillée et affûtée. Coupe propre dans différents types de bois et plastiques.

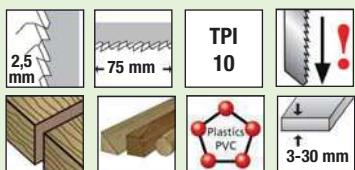
| Mod. | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €<br>pack |
|------|-----|----------------------------|---------|---------|---|------------|-----------|
| 060  | 10  | 2,5                        | 100     | 75      | 3 | 14233      |           |



Mod 070

**CORTE LIMPIO SIN ASTILLAS**Splinterfree Clean Cut  
Coupe propre sans éclat

T101BR

NEW  
PACKAGING!

| Mod. | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|------|-----|----------------------------|---------|---------|------------|-----------|
| 070  | 10  | 2,5                        | 100     | 75      | 3          | 14236     |

Sierra rectificado cónico y dentado afilado diagonal.  
Dentado inverso. Corte limpio sin astillas en todo tipo de maderas y plásticos.

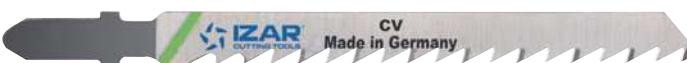
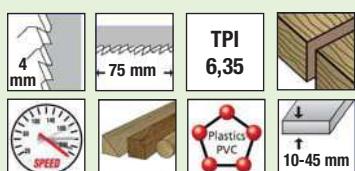
Conically ground blade with diagonally sharpened teeth.  
Reverse teeth. Clean splinterfree cutting for all wood types and plastics.

Corps de la lame conique et denture dépollée et affûtée.  
Denture inversée. Coupe propre sans éclats dans différents types de bois et plastiques.

Mod 080

**CORTE LIMPIO RÁPIDO**Fast Clean Cut  
Coupe propre rapide

T101D

NEW  
PACKAGING!

| Mod. | TPI  | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|------|------|----------------------------|---------|---------|------------|-----------|
| 080  | 6,35 | 4                          | 100     | 75      | 3          | 14243     |

Sierra rectificado cónico y dentado afilado diagonal.  
Corte limpio y rápido en todo tipo de maderas y plásticos.

Conically ground blade with diagonally sharpened teeth.  
Clean and fast cutting for all wood types and plastics.

Corps de la lame conique et denture dépollée et affûtée.  
Coupe propre et rapide dans différents types de bois et plastiques.



Mod 100

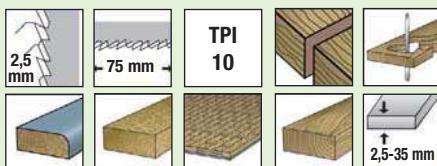
**CORTE LIMPIO CURVO**

Curve Clean Cut

Coupe propre courbe



NEW PACKAGING!



| Mod. | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|------|-----|----------------------------|---------|---------|------------|-----------|
| 100  | 10  | 2,5                        | 100     | 75      | 3          | 14302     |

Sierra rectificado cónico y dentado afilado diagonal.  
Corte limpio y curvo en madera blanda, aglomerado,  
laminado, parqué.

Conically ground blade with diagonally sharpened  
teeth. Clean and curve cutting for soft wood, chipboard,  
laminated board, parquett.

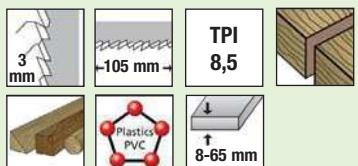
Corps de la lame conique et denture dépoillée et affûtée.  
Coupe propre et courbe dans bois tendres, agglomérés,  
panneaux en bois, parquets.

Mod 090

**CORTE LIMPIO LARGO**

Long Clean Cut

Coupe propre longue

NEW  
PACKAGING!

| Mod. | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|------|-----|----------------------------|---------|---------|------------|-----------|
| 090  | 8,5 | 3                          | 132     | 105     | 3          | 14246     |

Sierra rectificado cónico y dentado afilado diagonal.  
Corte limpio y largo en todo tipo de maderas y plásticos.

Conically ground blade with diagonally sharpened teeth.  
Clean and long cutting for all wood types and plastics.

Corps de la lame conique et denture dépoillée et affûtée.  
Coupe propre et longue dans différents types de bois et  
plastiques.



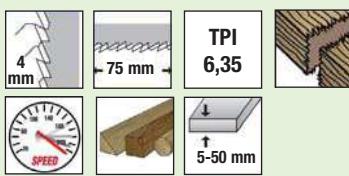
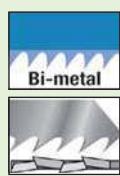
Mod 110

**CORTE RÁPIDO ALTO RENDIMIENTO**

Long Life Fast Cut

Coupe rapide longue durée

T144DF

NEW  
PACKAGING!

Dentado alterno y afilado diagonal. Corte rápido en todo tipo de maderas. Alto rendimiento.

Side set and diagonally sharpened toothing. Fast cutting for all wood types. Long lifetime.

Denture avoyée, dépouillée et affûtée. Coupe rapide dans différents types de bois. Durée de vie plus longue.

| Mod. | TPI  | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|------|------|----------------------------|---------|---------|------------|-----------|
| 110  | 6,35 | 4                          | 100     | 75      | 3          | 14306     |

Mod 130

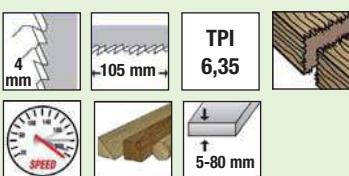
**CORTE RÁPIDO LARGO**

Long Fast Cut

Coupe rapide longue

NEW  
PACKAGING!

T344D



Dentado alterno y afilado diagonal. Corte rápido y largo en todo tipo de maderas.

Side set and diagonally sharpened toothing. Fast and long cutting for all wood types.

Denture avoyée, dépouillée et affûtée. Coupe rapide et longue dans différents types de bois.

| Mod. | TPI  | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|------|------|----------------------------|---------|---------|------------|-----------|
| 130  | 6,35 | 4                          | 132     | 105     | 3          | 14307     |



Mod 140

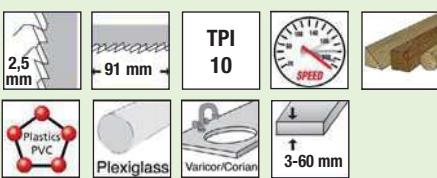
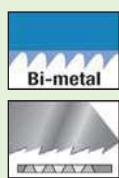
**CORTE LIMPIO RÁPIDO**

Fast Clean Cut

Coupe propre rapide

NEW  
PACKAGING!

T234X



Sierra rectificado cónico y dentado afilado triple. Corte limpio y rápido en todo tipo de maderas y plásticos.

Conically ground blade with 3-times sharpened teeth. Clean and fast cutting for all wood types and plastics.

Corps de la lame conique avec denture affûtée triple. Coupe propre et rapide dans différents types de bois et plastiques.

| Mod. | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|------|-----|----------------------------|---------|---------|------------|-----------|
| 140  | 10  | 2,5                        | 117     | 91      | 3          | 14326     |

Mod 150

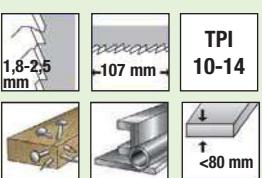
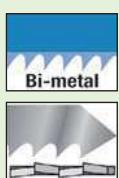
**CORTE LARGO FLEXIBLE ALTO RENDIMIENTO**

Long Life Flexible Long Cut

Coupe longue flexible longue durée

NEW  
PACKAGING!

T345XF



Dentado fresado alterno. Sierra larga y flexible para madera con residuos de metal, tubos y perfiles de acero (2,5-10 mm). Gran rendimiento.

Milled and side teeth. Long and flexible blade for wood with metal residues, steel pipes and profiles (2,5-10 mm). Long lifetime.

Dents fraissés et avoyés. Lame très longue et flexible pour bois avec métaux résiduels, tubes et profils en acier (2,5-10 mm). Durée de vie plus longue.

| Mod. | TPI   | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|------|-------|----------------------------|---------|---------|------------|-----------|
| 150  | 10-14 | 1,8-2,5                    | 132     | 107     | 3          | 14327     |



Mod 160

**CORTE RÁPIDO CURVO**

Curve Fast Cut

Coupe rapide courbe

NEW  
PACKAGING!

Dentado doble alterno y afilado diagonal. Corte rápido y curvo en todo tipo de maderas.

Double side set and diagonally sharpened toothing. Fast and curve cutting for all wood types.

Denture double avoyée, dépoillée et affûtée. Coupe rapide et courbe dans différents types de bois.

| Mod. | TPI  | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|------|------|----------------------------|---------|---------|------------|-----------|
| 160  | 6,35 | 4                          | 100     | 75      | 3          | 14328     |

Mod 170

**CORTE LIMPIO RÁPIDO**

Fast Clean Cut

Coupe propre rapide

NEW  
PACKAGING!

Sierra rectificado cónico y dentado afilado inverso. Corte limpio y rápido en madera blanda, aglomerado, tablero de fibra, laminado, parqué, laminado plástico.

Conically ground blade with reverse sharpened teeth. Clean and fast cutting for all wood types and plastics.

Corps de la lame conique denture renversée et affûtée. Coupe propre et rapide dans différents types de bois et plastiques.

| Mod. | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|------|-----|----------------------------|---------|---------|------------|-----------|
| 170  | 13  | 1,9                        | 117     | 91      | 3          | 14331     |



Mod 180

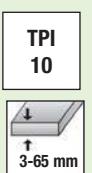
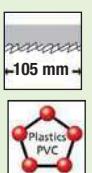
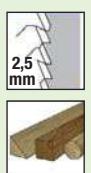
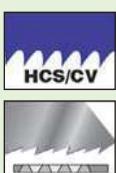
**CORTE LIMPIO**

Clean Cut

Coupe propre

NEW  
PACKAGING!

T301B



| Mod. | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|------|-----|----------------------------|---------|---------|------------|-----------|
| 180  | 10  | 2,5                        | 132     | 105     | 3          | 14332     |

Sierra rectificado cónico y dentado afilado diagonal.  
Corte limpio en todo tipo de maderas y plásticos.

Conically ground blade with diagonally sharpened teeth.  
Clean cutting for all wood types and plastics.

Corps de la lame conique denture dépouillée et affûtée.  
Coupe propre dans différents types de bois et plastiques.

Mod 200

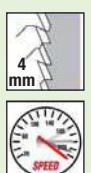
**CORTE RÁPIDO MUY LARGO**

Very Long Fast Cut

Coupe rapide très longue

NEW  
PACKAGING!

T744D



| Mod. | TPI  | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|------|------|----------------------------|---------|---------|------------|-----------|
| 200  | 6,35 | 4                          | 180     | 155     | 3          | 14334     |

Dentado alterno y afilado diagonal. Corte rápido y muy largo en todo tipo de maderas.

Side set and diagonally sharpened toothing. Fast and very long cutting for all wood types.

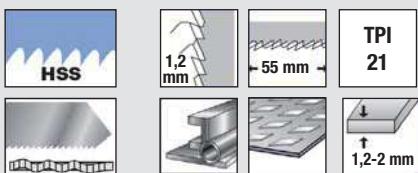
Denture avoyée, dépouillée et affûtée. Coupe rapide et très longue dans différents types de bois.



Mod 020

**CORTE LÁMINAS FINAS ACERO**Thin Steel Sheet Cut  
Coupe tôles fines acierNEW  
PACKAGING!

T118A



**Dentado fresado y ondulado. Láminas finas de acero.**  
Milled teeth and wavy set. Thin steel sheets.  
Dents fraisés et ondulés. Tôles fines.

| Mod. | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|------|-----|----------------------------|---------|---------|------------|-----------|
| 020  | 21  | 1,2                        | 76,5    | 55      | 3          | 14336     |

Mod 040

**CORTE LARGO LÁMINAS FINAS ACERO**Thin Steel Sheet Long Cut  
Coupe longue tôles fines acierNEW  
PACKAGING!

T318A



**Dentado fresado y ondulado. Sierra larga para láminas finas de acero, tubos, perfiles y material tipo sandwich hasta 80 mm.**

Milled teeth and wavy set. Long blade for thin steel sheets, pipes, profiles and sandwich-material up to 80 mm.  
Dents fraisés et ondulés. lame longue pour tôles fines, profils, tubes et matériel sandwich jusqu'à 80 mm.

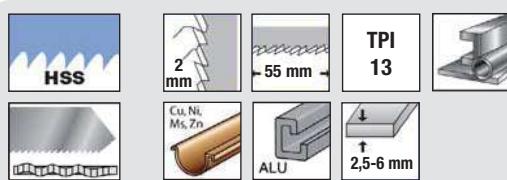
| Mod. | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|------|-----|----------------------------|---------|---------|------------|-----------|
| 040  | 25  | 1                          | 132     | 105     | 3          | 14339     |



Mod 050

**CORTE ACEROS, NO FERROSOS, ALUMINIO**Steel, Non-Ferrous, Aluminium Cut  
Coupe Aciers, Non ferreux, AluminiumNEW  
PACKAGING!

T118B

**Dentado fresado y ondulado. Aceros, metales no ferrosos y aluminio.****Milled teeth and wavy set. Steel, non-ferrous metal and aluminium.****Dents fraîsés et ondulées. Aciers, métaux non ferreux et aluminiums.**

| Mod. | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €<br>pack |
|------|-----|----------------------------|---------|---------|---|------------|-----------|
| 050  | 13  | 2                          | 76,5    | 55      | 3 | 14349      |           |

Mod 060

**CORTE LARGO FLEXIBLE**Flexible Long Cut  
Coupe longue flexibleNEW  
PACKAGING!

T318B

**Dentado fresado y ondulado. Sierra larga y flexible para aceros, tubos, perfiles, material tipo sandwich hasta 80 mm y metales no ferrosos. Alto rendimiento.****Milled teeth and wavy set. Long and flexible blade for steel, pipes, profiles, sandwich-material up to 80 mm and non-ferrous metals. Long life.****Dents fraîsés et ondulées. Lame longue et flexible pour aciers, profils, tubes, matériel sandwich jusqu'à 80 mm et métal non ferreux. Durée de vie plus longue.**

| Mod. | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €<br>pack |
|------|-----|----------------------------|---------|---------|---|------------|-----------|
| 060  | 14  | 1,8                        | 132     | 105     | 3 | 14351      |           |



Mod 070

**CORTE FLEXIBLE ALTO RENDIMIENTO**Long Life Flexible Cut  
Coupe flexible longue duréeNEW  
PACKAGING!

T118AF



**Dentado fresado y ondulado. Sierra flexible para aceros e inoxidables. Alto rendimiento.**

Milled teeth and wavy set. Flexible blade for steel and stainless steel. Long life.

Dents fraisés et ondulés. Lame longue et flexible pour aciers et inoxydables. Durée de vie plus longue.

| Mod. | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|------|-----|----------------------------|---------|---------|------------|-----------|
| 070  | 21  | 1,2                        | 76,5    | 55      | 3          | 14352     |

Mod 090

**CORTE FLEXIBLE ALTO RENDIMIENTO**Long Life Flexible Cut  
Coupe flexible longue duréeNEW  
PACKAGING!

T118BF



**Dentado fresado y ondulado. Sierra flexible para aceros e inoxidables, metales no ferrosos y aluminio. Alto rendimiento.**

Milled teeth and wavy set. Flexible blade for steel and stainless steel, non-ferrous metals and aluminium. Long life.

Dents fraisés et ondulés. Lame longue et flexible pour aciers et inoxydables, métaux non ferreux et aluminiums. Durée de vie plus longue.

| Mod. | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|------|-----|----------------------------|---------|---------|------------|-----------|
| 090  | 13  | 2                          | 76,5    | 55      | 3          | 14353     |



Mod 100

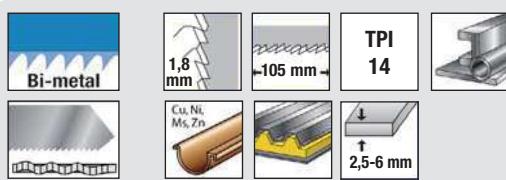
**CORTE LARGO FLEXIBLE ALTO RENDIMIENTO**

Long Life Flexible Long Cut

Coupe longue flexible longue durée

NEW  
PACKAGING!

T318BF

IZAR  
CUTTING TOOLSBi-Metal  
Made in Germany

| Mod. | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|------|-----|----------------------------|---------|---------|------------|-----------|
| 100  | 14  | 1,8                        | 132     | 105     | 3          | 14358     |

**CORTE ACEROS, NO FERROSOS, ALUMINIO, PLÁSTICO**

Steel, Non-Ferrous, Aluminium, Plastic Cut

Coupe Aciers, Non ferreux, Aluminium, Plastique

NEW  
PACKAGING!

T127D

IZAR  
CUTTING TOOLSHSS  
Made in Germany

| Mod. | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|------|-----|----------------------------|---------|---------|------------|-----------|
| 110  | 8,5 | 3                          | 100     | 75      | 3          | 14372     |

Dentado fresado alterno. Aceros, metales no ferrosos, aluminio y plásticos.

Milled teeth and side set. Steel, non-ferrous metals, aluminium and plastics.

Dents fraisés et avoyés. Aciers, métaux non ferreux, aluminiums et plastiques.



Mod 120

**METAL DURO PULVERIZADO**Grinded Carbide  
Carbure pulvériséNEW  
PACKAGING!

T118AHM

TPI  
23INOX  
STAINLESS**Banda de metal duro pulverizado. Aceros, planchas de metal e inoxidables.**

Grinded carbide strip. Steel, metal sheets and stainless steel.

Dents en carbure. Aciers, tôles et aciers inoxydables.

| Mod. | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|------|-----|----------------------------|---------|---------|------------|-----------|
| 120  | 23  | 1,1                        | 79      | 50      | 1          | 14379     |

Mod 200

**CORTE LARGO FLEXIBLE CONSTRUCCIÓN ALTO RENDIMIENTO**

Long Life Construction Flexible Long Cut

Coupé longue flexible construction longue durée

NEW  
PACKAGING!

T718AF

TPI  
12

2-120 mm

**Dentado fresado y ondulado. Sierra larga y flexible para construcción de fachadas y material tipo sandwich. Alto rendimiento.**

Milled teeth and wavy set. Long and flexible blade for facade construction and sandwich-material. Long life.

Dents fraîsés et ondulés. Lame longue et flexible pour les façades et matériel sandwich. Durée de vie plus longue

| Mod. | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|------|-----|----------------------------|---------|---------|------------|-----------|
| 200  | 12  | 2                          | 180     | 155     | 3          | 14380     |



Mod 020

## CORTE FLEXIBLE METAL, PLÁSTICO

Plastic, Metal Flexible Cut  
Coupe flexible Métal, Plastique

NEW PACKAGING!

T127DF



| Mod. | TPI | Diente<br>Tooth<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|------|-----|-----------------------|---------|---------|------------|-----------|
| 020  | 8,5 | 3                     | 100     | 75      | 3          | 14386     |

Dentado fresado alterno. Sierra flexible para aceros, metales no ferrosos, aluminio (3-15 mm) y plásticos (3-30 mm).

Milled teeth and side set. Flexible blade for steel, non-ferrous metals, aluminium (3-15 mm) and plastics (3-30 mm).

Dents fraisés et avoyés. Lame flexible pour aciers, métaux non ferreux, aluminiums (3-15 mm) et plastiques (3-30 mm).

Mod 030

## CORTE VIDRIO, CERÁMICA

Ceramic, Glass Cut  
Coupe Verre, Céramique

NEW PACKAGING!

T130RIFF



| Mod. | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|------|---------|---------|------------|-----------|
| 030  | 79      | 54      | 1          | 14387     |

Recubrimiento de metal duro de grano grueso. Vidrio, cerámica y productos reforzados con fibra de vidrio.

Carbide coated, coarse-grained. Glass, ceramics, glass-fibre reinforced products.

Revêtement en carbure, gros grains. Verre, céramique, fibre de verre.

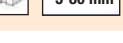
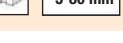
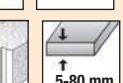
Mod 200

## DENTADO METAL DURO TUNGSTENO

Tungsten Carbide Teeth  
Denture carbure Tungstène

NEW PACKAGING!

T341HM



Dentado metal duro tungsteno. Fibra de vidrio, madera dura y hormigón gaseoso.

Carbide coated, coarse-grained. Glass-fibre, hard wood and gas formed concrete.

Revêtement en carbure, gros grains. Fibre de verre, bois durs et béton.

| Mod. | TPI | Diente<br>Tooth<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|------|-----|-----------------------|---------|---------|------------|-----------|
| 200  | 6   | 4,2                   | 132     | 100     | 1          | 14390     |

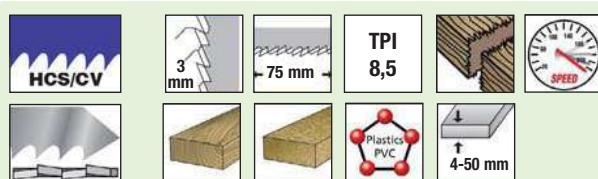
Mod 00030

**BÁSICA CORTE BASTO RÁPIDO**

Basic Fast Rough Cut

Basique coupe gros rapide

U111C



**Dentado alterno. Corte basto y rápido en madera blanda, tabla de viruta prensada, madera estratificada, tablero de fibra y plástico.**

Side set toothing. Rough and fast cutting of soft wood, chipboard, wood core plywood, fibre board and plastics.

Denture avoyée et affûtée. Coupe grosse et rapide dans bois tendres, agglomérés, fibres et plastiques.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|-------|-----|----------------------------|---------|---------|------------|-----------|
| 00030 | 8,5 | 3                          | 100     | 75      | 5          | 21883     |

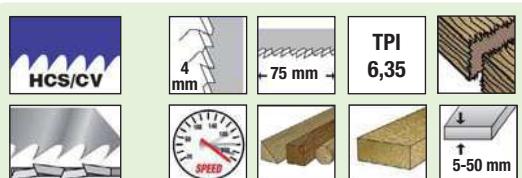
Mod 00040

**CORTE RÁPIDO**

Fast Cut

Coupe rapide

U144D



**Dentado alterno y afilado diagonal. Corte rápido en todo tipo de maderas.**

Side set and diagonally sharpened toothing. Fast cutting for all wood types.

Denture avoyée, dépouillée et affûtée. Coupe rapide dans différents types de bois.

| Mod.  | TPI  | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|-------|------|----------------------------|---------|---------|------------|-----------|
| 00040 | 6,35 | 4                          | 100     | 75      | 5          | 21884     |



Mod 00060

**CORTE LIMPIO**

Clean Cut

Coupe propre

U101B

21885

IZAR

CV  
Made in GermanyTPI  
10Plastics  
PVC

3-30 mm

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|-------|-----|----------------------------|---------|---------|------------|-----------|
| 00060 | 10  | 2,5                        | 100     | 75      | 5          | 21885     |

Sierra rectificado cónico y dentado afilado diagonal.  
Corte limpio en todo tipo de maderas y plásticos.

Conically ground blade with diagonally sharpened teeth.  
Clean cutting for all wood types and plastics.

Corps de la lame conique et denture dépoillée et affûtée.  
Coupe propre dans différents types de bois et plastiques.

Mod 00070

**CORTE LIMPIO SIN ASTILLAS**

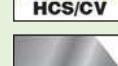
Splinterfree Clean Cut

Coupe propre sans éclat

U101BR

21886

IZAR

CV  
Made in GermanyTPI  
10Plastics  
PVC

3-30 mm

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|-------|-----|----------------------------|---------|---------|------------|-----------|
| 00070 | 10  | 2,5                        | 100     | 75      | 5          | 21886     |

Sierra rectificado cónico y dentado afilado diagonal.  
Dentado inverso. Corte limpio sin astillas en todo tipo de maderas y plásticos.

Conically ground blade with diagonally sharpened teeth.  
Reverse teeth. Clean splinterfree cutting for all wood types and plastics.

Corps de la lame conique et denture dépoillée et affûtée.  
Denture inversée. Coupe propre sans éclats dans différents types de bois et plastiques.

Ref. 1915

METAL

SIERRAS CALAR  
Jig Saw Blades  
Lames scies sauteuses

Mod 00020

**CORTE LÁMINAS FINAS ACERO**Thin Steel Sheet Cut  
Coupe tôles fines acier

U118A

21892

HSS  
Made in Germany

**Dentado fresado y ondulado. Láminas finas de acero e inoxidable.**

Milled teeth and wavy set. Thin steel and stainless steel sheets.

Dents fraîchés et ondulées. Tôles fines en acier et inoxydable.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|-------|-----|----------------------------|---------|---------|------------|-----------|
| 00020 | 21  | 1,2                        | 76,5    | 55      | 5          | 21892     |

Mod 00070

**CORTE FLEXIBLE ALTO RENDIMIENTO**Long Life Flexible Cut  
Coupe flexible longue durée

U118AF

21893

Bi-Metal  
Made in Germany

**Dentado fresado y ondulado. Sierra flexible para aceros e inoxidables. Alto rendimiento.**

Milled teeth and wavy set. Flexible blade for steel and stainless steel. Long life.

Dents fraîchés et ondulées. lame longue et flexible pour aciers et inoxydables. Durée de vie plus longue.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|-------|-----|----------------------------|---------|---------|------------|-----------|
| 00070 | 21  | 1,2                        | 76,5    | 55      | 5          | 21893     |

Mod 00110

**CORTE ACEROS, NO FERROSOS, ALUMINIO, PLÁSTICO**Steel, Non-Ferrous, Aluminium, Plastic Cut  
Coupe Aciers, Non ferreux, Aluminium, Plastique

U127D

21894

Bi-Metal  
Made in Germany

**Dentado fresado alterno. Aceros, metales no ferrosos, aluminio y plásticos.**

Milled teeth and side set. Steel, non-ferrous metals, aluminium and plastics.

Dents fraîchés et avoyés. Aciers, métaux non ferreux, aluminiums et plastiques.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €<br>pack |
|-------|-----|----------------------------|---------|---------|------------|-----------|
| 00110 | 8,5 | 3                          | 100     | 75      | 5          | 21894     |

## Línea 1m 19C1



23 cm

### SIERRAS CALAR INSERCIÓN "T"

"T" Insertion Jig Saw Blades

Lames scies insertion "T"

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Ref. | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1930 | 1940 | 1940 | 1940 | 1940 | 1940 | 1940 | 1940 | 1940 | 1940 | 1940 | 1940 | 1940 | 1940 |
| Pcs  | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    |

Ref. 4995 - Nº Art. 72195: €

## Línea 1m 19C2



24 cm

### SIERRAS CALAR INSERCIÓN "T" + "U"

"T" + "U" Insertion Jig Saw Blades

Lames scies insertion "T" + "U"

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Ref. | 1910 | 1910 | 1910 | 1910 | 1910 | 1915 | 1915 | 1940 | 1940 | 1940 | 1940 | 1940 | 1940 | 1940 | 1940 | 1945 | 1945 | 1945 | 1945 | 1945 | 1945 | 1945 |
| Pcs  | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    |

Ref. 4995 - Nº Art. 72196: €

## Display 20



| Ref. 1940 |          |          |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|----------|----------|
| Mod.      | Mod. 010 | Mod. 020 | Mod. 030 | Mod. 030 | Mod. 040 | Mod. 040 | Mod. 050 |
| Pcs       | 3        | 3        | 2        | 1        | 2        | 1        | 3        |
| Ref. 1940 |          |          |          |          |          |          |          |
| Mod.      | Mod. 060 | Mod. 070 | Mod. 070 | Mod. 080 | Mod. 100 | Mod. 020 | Mod. 030 |
| Pcs       | 1        | 2        | 1        | 3        | 3        | 3        | 3        |
| Ref. 1910 |          |          |          |          |          |          |          |
| Mod.      | Mod. 020 | Mod. 040 | Mod. 050 | Mod. 060 | Mod. 070 | Mod. 090 | Mod. 100 |
| Pcs       | 3        | 3        | 3        | 3        | 3        | 3        | 3        |

Ref. 4995 - Nº Art. 22391: €

## Display 21



| Ref. 1940 |            |            |            |            |            |            |            |
|-----------|------------|------------|------------|------------|------------|------------|------------|
| Mod.      | Mod. 010   | Mod. 030   | Mod. 040   | Mod. 060   | Mod. 070   | Mod. 080   | Mod. 100   |
| Pcs       | 3          | 3          | 3          | 3          | 3          | 3          | 3          |
| Ref. 1910 |            |            |            |            |            |            |            |
| Mod.      | Mod. 020   | Mod. 040   | Mod. 050   | Mod. 070   | Mod. 100   | Mod. 020   | Mod. 030   |
| Pcs       | 2          | 2          | 2          | 2          | 2          | 1          | 1          |
| Ref. 1945 |            |            |            |            |            |            |            |
| Mod.      | Mod. 00030 | Mod. 00040 | Mod. 00060 | Mod. 00060 | Mod. 00070 | Mod. 00020 | Mod. 00070 |
| Pcs       | 3          | 3          | 2          | 1          | 3          | 2          | 2          |
| Ref. 1915 |            |            |            |            |            |            |            |
| Mod.      | Mod. 00060 | Mod. 00060 | Mod. 00060 | Mod. 00070 | Mod. 00020 | Mod. 00070 | Mod. 00110 |
| Pcs       | 2          | 2          | 1          | 3          | 2          | 2          | 2          |

Ref. 4995 - Nº Art. 22280: €

## PUNTAS ATORNILLAR

Screwdriver Bits  
Embouts vissage



# PUNTAS ATORNILLAR

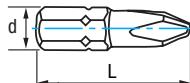
## Screwdriver Bits - Embouts vissage

Ref. **1520**

### PUNTA ATORNILLAR

Screwdriver Bit  
Embout vissage

Standard



**GAMA**  
Range  
Gamme



**2 Uds**



**5 Uds**



**25 Uds**



**50 Uds**



**100 Uds**

| Tipo<br>Type | D<br>mm | L<br>mm | d<br>mm | Nº<br>Art. | €<br>pack | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|--------------|---------|---------|---------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|

#### ALLEN



|     |            |           |      |       |  |       |  |       |  |       |  |  |  |
|-----|------------|-----------|------|-------|--|-------|--|-------|--|-------|--|--|--|
| HEX | <b>2</b>   | <b>25</b> | 6,35 | 23418 |  | 23425 |  | 23426 |  | 23429 |  |  |  |
| HEX | <b>2,5</b> | <b>25</b> | 6,35 | 23430 |  | 23431 |  | 23432 |  | 23433 |  |  |  |
| HEX | <b>3</b>   | <b>25</b> | 6,35 | 83771 |  | 33154 |  | 23445 |  | 23446 |  |  |  |
| HEX | <b>4</b>   | <b>25</b> | 6,35 | 83772 |  | 33155 |  | 23447 |  | 23448 |  |  |  |
| HEX | <b>5</b>   | <b>25</b> | 6,35 | 83773 |  | 33156 |  | 23449 |  | 23450 |  |  |  |
| HEX | <b>6</b>   | <b>25</b> | 6,35 | 23451 |  | 23453 |  | 23454 |  | 23455 |  |  |  |
| HEX | <b>7</b>   | <b>35</b> | 6,35 | 23456 |  | 23457 |  | 23458 |  | 23459 |  |  |  |
| HEX | <b>8</b>   | <b>35</b> | 6,35 | 23460 |  | 23461 |  | 23462 |  | 23463 |  |  |  |

#### PHILLIPS



|    |          |           |      |       |  |       |  |       |  |       |  |       |  |
|----|----------|-----------|------|-------|--|-------|--|-------|--|-------|--|-------|--|
| PH | <b>0</b> | <b>25</b> | 6,35 | 23464 |  | 23465 |  | 23466 |  | 23468 |  |       |  |
| PH | <b>1</b> | <b>25</b> | 6,35 | 83774 |  | 33138 |  | 23469 |  | 23470 |  |       |  |
| PH | <b>2</b> | <b>25</b> | 6,35 | 83776 |  | 33139 |  | 23473 |  | 23475 |  | 23476 |  |
| PH | <b>3</b> | <b>25</b> | 6,35 | 83778 |  | 33140 |  | 23482 |  | 23483 |  |       |  |
| PH | <b>4</b> | <b>35</b> | 6,35 | 23505 |  | 23506 |  | 23509 |  | 23511 |  |       |  |
| PH | <b>1</b> | <b>50</b> | 6,35 | 83775 |  | 22647 |  | 23471 |  | 23472 |  |       |  |
| PH | <b>2</b> | <b>50</b> | 6,35 | 83777 |  | 22654 |  | 23477 |  | 23478 |  | 23479 |  |
| PH | <b>3</b> | <b>50</b> | 6,35 | 83779 |  | 22659 |  | 23503 |  | 23504 |  |       |  |

#### POZIDRIVE



|    |          |           |      |       |  |       |  |       |  |       |  |       |  |
|----|----------|-----------|------|-------|--|-------|--|-------|--|-------|--|-------|--|
| PZ | <b>0</b> | <b>25</b> | 6,35 | 23513 |  | 23515 |  | 23561 |  | 23562 |  |       |  |
| PZ | <b>1</b> | <b>25</b> | 6,35 | 83780 |  | 33141 |  | 23570 |  | 23571 |  |       |  |
| PZ | <b>2</b> | <b>25</b> | 6,35 | 83782 |  | 33142 |  | 23585 |  | 23588 |  | 23589 |  |
| PZ | <b>3</b> | <b>25</b> | 6,35 | 83784 |  | 33143 |  | 23594 |  | 23596 |  |       |  |
| PZ | <b>4</b> | <b>35</b> | 6,35 | 23600 |  | 23601 |  | 23602 |  | 23606 |  |       |  |
| PZ | <b>1</b> | <b>50</b> | 6,35 | 83781 |  | 23578 |  | 23579 |  | 23580 |  |       |  |
| PZ | <b>2</b> | <b>50</b> | 6,35 | 83783 |  | 22663 |  | 23590 |  | 23592 |  | 23593 |  |
| PZ | <b>3</b> | <b>50</b> | 6,35 | 83785 |  | 22664 |  | 23597 |  | 23599 |  |       |  |

#### PLANA / Flat / Plate



|    |                |           |      |       |  |       |  |       |  |       |  |  |  |
|----|----------------|-----------|------|-------|--|-------|--|-------|--|-------|--|--|--|
| SL | <b>3,0x0,5</b> | <b>25</b> | 6,35 | 23609 |  | 23615 |  | 23616 |  | 23618 |  |  |  |
| SL | <b>4,0x0,5</b> | <b>25</b> | 6,35 | 23619 |  | 23620 |  | 23622 |  | 23624 |  |  |  |
| SL | <b>4,5x0,6</b> | <b>25</b> | 6,35 | 83786 |  | 33151 |  | 23669 |  | 23672 |  |  |  |
| SL | <b>5,5x0,8</b> | <b>25</b> | 6,35 | 83787 |  | 33152 |  | 23693 |  | 23702 |  |  |  |
| SL | <b>5,5x1,0</b> | <b>25</b> | 6,35 | 23735 |  | 23738 |  | 23741 |  | 23750 |  |  |  |
| SL | <b>6,0x1,0</b> | <b>25</b> | 6,35 | 23751 |  | 23752 |  | 23754 |  | 23755 |  |  |  |
| SL | <b>6,5x1,2</b> | <b>25</b> | 6,35 | 83788 |  | 33153 |  | 23757 |  | 23758 |  |  |  |
| SL | <b>8,0x1,2</b> | <b>30</b> | 6,35 | 23770 |  | 23772 |  | 23773 |  | 23774 |  |  |  |
| SL | <b>4,0x0,5</b> | <b>50</b> | 6,35 | 23627 |  | 23638 |  | 23660 |  | 23663 |  |  |  |
| SL | <b>4,5x0,6</b> | <b>50</b> | 6,35 | 23678 |  | 22666 |  | 23681 |  | 23683 |  |  |  |
| SL | <b>5,5x0,8</b> | <b>50</b> | 6,35 | 23705 |  | 22668 |  | 23714 |  | 23723 |  |  |  |
| SL | <b>6,5x1,2</b> | <b>50</b> | 6,35 | 23760 |  | 22669 |  | 23766 |  | 23769 |  |  |  |

Ref. **1520**

## PUNTA ATORNILLAR

Screwdriver Bit  
Embout vissage

**GAMA**  
Range  
Gamme



**2 Uds**



**5 Uds**



**25 Uds**



**50 Uds**



**100 Uds**

| Tipo<br>Type | D<br>mm | L<br>mm | d<br>mm | Nº<br>Art. | €<br>pack | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|--------------|---------|---------|---------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|

### TORX



|    |           |           |      |       |  |       |  |       |  |       |  |       |  |
|----|-----------|-----------|------|-------|--|-------|--|-------|--|-------|--|-------|--|
| TX | <b>5</b>  | <b>25</b> | 6,35 | 23805 |  | 23806 |  | 23807 |  | 23816 |  |       |  |
| TX | <b>6</b>  | <b>25</b> | 6,35 | 23817 |  | 23818 |  | 23819 |  | 23820 |  |       |  |
| TX | <b>7</b>  | <b>25</b> | 6,35 | 23821 |  | 23822 |  | 23832 |  | 23833 |  |       |  |
| TX | <b>8</b>  | <b>25</b> | 6,35 | 23835 |  | 66723 |  | 23837 |  | 23838 |  |       |  |
| TX | <b>9</b>  | <b>25</b> | 6,35 | 23848 |  | 23851 |  | 23853 |  | 23854 |  |       |  |
| TX | <b>10</b> | <b>25</b> | 6,35 | 83789 |  | 33144 |  | 23855 |  | 23856 |  |       |  |
| TX | <b>15</b> | <b>25</b> | 6,35 | 83791 |  | 33145 |  | 23859 |  | 23860 |  | 23861 |  |
| TX | <b>20</b> | <b>25</b> | 6,35 | 83793 |  | 33146 |  | 23866 |  | 23869 |  | 23872 |  |
| TX | <b>25</b> | <b>25</b> | 6,35 | 83795 |  | 33147 |  | 23877 |  | 23878 |  | 23879 |  |
| TX | <b>27</b> | <b>25</b> | 6,35 | 23907 |  | 33148 |  | 23908 |  | 23910 |  |       |  |
| TX | <b>30</b> | <b>25</b> | 6,35 | 83797 |  | 33149 |  | 23915 |  | 23919 |  | 23920 |  |
| TX | <b>40</b> | <b>25</b> | 6,35 | 83799 |  | 33150 |  | 23924 |  | 23925 |  |       |  |
| TX | <b>10</b> | <b>50</b> | 6,35 | 83790 |  | 22671 |  | 23857 |  | 23858 |  |       |  |
| TX | <b>15</b> | <b>50</b> | 6,35 | 83792 |  | 22674 |  | 23863 |  | 23864 |  |       |  |
| TX | <b>20</b> | <b>50</b> | 6,35 | 83794 |  | 22675 |  | 23873 |  | 23874 |  | 23875 |  |
| TX | <b>25</b> | <b>50</b> | 6,35 | 83796 |  | 22676 |  | 23894 |  | 23905 |  | 23906 |  |
| TX | <b>27</b> | <b>50</b> | 6,35 | 23911 |  | 22677 |  | 23912 |  | 23913 |  |       |  |
| TX | <b>30</b> | <b>50</b> | 6,35 | 83798 |  | 22678 |  | 23921 |  | 23922 |  | 23923 |  |
| TX | <b>40</b> | <b>50</b> | 6,35 | 83800 |  | 22683 |  | 23926 |  | 23927 |  |       |  |

### TORX SEGURIDAD

Security Torx / Torx Sécurité



|    |           |           |      |       |  |       |  |       |  |       |              |  |
|----|-----------|-----------|------|-------|--|-------|--|-------|--|-------|--------------|--|
| TS | <b>10</b> | <b>25</b> | 6,35 | 31098 |  | 23949 |  | 23950 |  | 23951 | <b>24,35</b> |  |
| TS | <b>15</b> | <b>25</b> | 6,35 | 31099 |  | 23952 |  | 23954 |  | 23956 | <b>24,35</b> |  |
| TS | <b>20</b> | <b>25</b> | 6,35 | 31100 |  | 23959 |  | 23960 |  | 23961 | <b>24,35</b> |  |
| TS | <b>25</b> | <b>25</b> | 6,35 | 31101 |  | 23962 |  | 23963 |  | 23964 | <b>24,35</b> |  |
| TS | <b>27</b> | <b>25</b> | 6,35 | 31102 |  | 23965 |  | 23966 |  | 23967 | <b>24,35</b> |  |
| TS | <b>30</b> | <b>25</b> | 6,35 | 31103 |  | 23970 |  | 23972 |  | 23973 | <b>24,35</b> |  |
| TS | <b>40</b> | <b>25</b> | 6,35 | 31104 |  | 23974 |  | 23975 |  | 23998 | <b>24,35</b> |  |

### SQUARE ROBERTSON



|    |          |           |      |       |  |       |  |       |  |       |              |  |
|----|----------|-----------|------|-------|--|-------|--|-------|--|-------|--------------|--|
| SQ | <b>1</b> | <b>25</b> | 6,35 | 23775 |  | 23776 |  | 23778 |  | 23779 | <b>63,59</b> |  |
| SQ | <b>2</b> | <b>25</b> | 6,35 | 23786 |  | 23787 |  | 23788 |  | 23789 | <b>63,59</b> |  |
| SQ | <b>3</b> | <b>25</b> | 6,35 | 23795 |  | 23796 |  | 23797 |  | 23798 | <b>63,59</b> |  |
| SQ | <b>1</b> | <b>50</b> | 6,35 | 23781 |  | 23782 |  | 23784 |  | 23785 | <b>97,83</b> |  |
| SQ | <b>2</b> | <b>50</b> | 6,35 | 23790 |  | 23791 |  | 23792 |  | 23794 | <b>97,83</b> |  |
| SQ | <b>3</b> | <b>50</b> | 6,35 | 23799 |  | 23801 |  | 23802 |  | 23804 | <b>97,83</b> |  |

### TRIWING



|     |          |           |      |       |  |       |  |       |  |  |  |  |
|-----|----------|-----------|------|-------|--|-------|--|-------|--|--|--|--|
| TRW | <b>1</b> | <b>25</b> | 6,35 | 23928 |  | 23929 |  | 23930 |  |  |  |  |
| TRW | <b>2</b> | <b>25</b> | 6,35 | 23931 |  | 23932 |  | 23933 |  |  |  |  |
| TRW | <b>3</b> | <b>25</b> | 6,35 | 23934 |  | 23935 |  | 23936 |  |  |  |  |
| TRW | <b>4</b> | <b>25</b> | 6,35 | 23937 |  | 23938 |  | 23939 |  |  |  |  |
| TRW | <b>5</b> | <b>25</b> | 6,35 | 23940 |  | 23941 |  | 23942 |  |  |  |  |
| TRW | <b>6</b> | <b>25</b> | 6,35 | 23943 |  | 23944 |  | 23945 |  |  |  |  |
| TRW | <b>8</b> | <b>25</b> | 6,35 | 23946 |  | 23947 |  | 23948 |  |  |  |  |

### XZN



|     |           |           |      |       |  |       |  |       |  |  |  |  |
|-----|-----------|-----------|------|-------|--|-------|--|-------|--|--|--|--|
| XZN | <b>4</b>  | <b>25</b> | 6,35 | 24016 |  | 24027 |  | 24029 |  |  |  |  |
| XZN | <b>5</b>  | <b>25</b> | 6,35 | 24031 |  | 24032 |  | 24033 |  |  |  |  |
| XZN | <b>6</b>  | <b>25</b> | 6,35 | 24034 |  | 24041 |  | 24043 |  |  |  |  |
| XZN | <b>8</b>  | <b>25</b> | 6,35 | 24045 |  | 24046 |  | 24047 |  |  |  |  |
| XZN | <b>10</b> | <b>25</b> | 6,35 | 24056 |  | 24117 |  | 24120 |  |  |  |  |

## Display 63

### PUNTA ATORNILLAR

Screwdriver Bit  
Embout vissage



|                     | Ø<br>Pcs | HEX 3<br>5  | HEX 4<br>5  | HEX 5<br>5  | PH 1<br>5   | PH 2<br>5   | PH 3<br>5   |
|---------------------|----------|-------------|-------------|-------------|-------------|-------------|-------------|
| Ref.<br>1520<br>L25 | Ø<br>Pcs | PZ 1<br>5   | PZ 2<br>5   | PZ 3<br>5   | SL 4,5<br>5 | SL 5,5<br>5 | SL 6,5<br>5 |
|                     | Ø<br>Pcs | T 10<br>5   | T 15<br>5   | T 20<br>5   | T 25<br>5   | T 30<br>5   | T 40<br>5   |
| Ref.<br>1520<br>L50 | Ø<br>Pcs | PH 1<br>3   | PH 2<br>3   | PH 3<br>3   | PZ 1<br>3   | PZ 2<br>3   | PZ 3<br>3   |
|                     | Ø<br>Pcs | SL 4,5<br>3 | SL 5,5<br>3 | SL 6,5<br>3 | T 25<br>3   | T 30<br>3   | T 40<br>3   |

Ref. 4995 - Nº Art. 37502: €

## Display 71

### PUNTA ATORNILLAR

Screwdriver Bit  
Embout vissage

New!



| L<br>Pcs | PZ<br>1<br>25 mm<br>5 | PZ<br>1<br>50 mm<br>5 | PH<br>1<br>25 mm<br>5 | PH<br>1<br>50 mm<br>5 | TX<br>10<br>25 mm<br>5 | TX<br>10<br>50 mm<br>5 | TX<br>15<br>25 mm<br>5 | TX<br>15<br>50 mm<br>5 | HEX<br>3<br>25 mm<br>5 | SL<br>4,5x0,6<br>25 mm<br>5 |               |               |
|----------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-----------------------------|---------------|---------------|
| L<br>Pcs | PZ<br>2<br>25mm<br>5  | PZ<br>2<br>50mm<br>5  | PH<br>2<br>25mm<br>5  | PH<br>2<br>50mm<br>5  | TX<br>20<br>25mm<br>5  | TX<br>20<br>50mm<br>5  | TX<br>25<br>25mm<br>5  | TX<br>25<br>50mm<br>5  | HEX<br>4<br>25mm<br>5  | SL<br>5,5x0,8<br>25mm<br>5  |               |               |
| L<br>Pcs | PZ<br>3<br>25mm<br>5  | PZ<br>3<br>50mm<br>5  | PH<br>3<br>25mm<br>5  | PH<br>3<br>50mm<br>5  | TX<br>30<br>25mm<br>5  | TX<br>30<br>50mm<br>5  | TX<br>40<br>25mm<br>5  | TX<br>40<br>50mm<br>5  | HEX<br>5<br>25mm<br>5  | SL<br>6,5x1,2<br>25mm<br>5  |               |               |
| Pcs      | SET                   |                       |                       | SET                   |                        |                        | SET                    |                        |                        | Quick-lock INOX             | Magnético IND | Magnético IND |
| Pcs      | 3                     |                       |                       | 3                     |                        |                        | 3                      |                        |                        | 3                           | 3             | 3             |

Ref. 4995 - Nº Art. 83801: €

New!

### Set 13 Pcs

| Cont.                                | Nº Art. | € |
|--------------------------------------|---------|---|
| PH:<br>1 - 2 - 3 +                   |         |   |
| PZ:<br>1 - 2 - 3 +                   | 83769   |   |
| T:<br>10 - 15 - 20 -<br>25 - 30 - 40 |         |   |

Box-Pallet  
**1520**

12 Sets

|         |   |
|---------|---|
| Nº Art. | € |
| 83770   |   |



# Sets 1520

## PUNTA ATORNILLAR

Screwdriver Bit  
Embout vissage



Tipo  
Type

**PH-PZ**



Tipo  
Type

**PH-PZ-SL**

**Set 7 Pcs**

| D<br>mm              | L<br>mm | d<br>mm | Nº<br>Art. | € |
|----------------------|---------|---------|------------|---|
| <b>PH:<br/>1-2-3</b> |         |         |            |   |
| <b>PZ:<br/>1-2-3</b> | 25      | 6,35    | 33748      |   |

**Set 12 Pcs**

| D<br>mm                                    | L<br>mm | d<br>mm | Nº<br>Art. | € |
|--------------------------------------------|---------|---------|------------|---|
| <b>PH: 1 - 2 (2 pcs.) - 3 +</b>            |         |         |            |   |
| <b>PZ: 1 - 2 (2 pcs.) - 3 +</b>            | 25      | 6,35    | 33754      |   |
| <b>SL: 4,5x0,6 - 5,5x0,8 -<br/>6,5-1,2</b> |         |         |            |   |

Hasta fin de existencias - While stock lasts - Jusqu'à la fin de stock

**Box-Pallet  
1520**

**6 Sets**

| Nº<br>Art. | € |
|------------|---|
| 68168      |   |



**31**

**Cont. 1 set**



|           |            |
|-----------|------------|
| <b>PH</b> | d mm: 6,35 |
| 2x PH1    |            |
| 3x PH2    |            |
| 1x PH3    |            |

|           |            |
|-----------|------------|
| <b>PZ</b> | d mm: 6,35 |
| 2x PZ1    |            |
| 8x PZ2    |            |
| 2x PZ3    |            |

|           |            |
|-----------|------------|
| <b>Tx</b> | d mm: 6,35 |
| 1x T10    |            |
| 2x T15    |            |
| 2x T20    |            |
| 3x T25    |            |
| 3x T30    |            |
| 1x T40    |            |

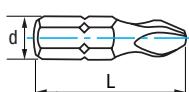
|                                             |                       |
|---------------------------------------------|-----------------------|
| <b>Adapt. Quick-Lock<br/>INOX/Stainless</b> | d mm: 6,35            |
| Adapter 60 mm                               | L mm: 60 - d mm: 6,35 |

Ref. **1521**

## PUNTA ATORNILLAR PRO

PRO Screwdriver Bit  
Embout vissage PRO

Torsion



### PHILLIPS



| Tipo<br>Type | D<br>mm | L<br>mm | d<br>mm | Nº<br>Art. | €<br>pack |
|--------------|---------|---------|---------|------------|-----------|
| PH 1         | 25      | 6,35    | 5       | 33173      |           |
| PH 1         | 50      | 6,35    | 3       | 33192      |           |
| PH 2         | 25      | 6,35    | 5       | 33174      |           |
| PH 2         | 50      | 6,35    | 3       | 33193      |           |
| PH 3         | 25      | 6,35    | 5       | 33175      |           |
| PH 3         | 50      | 6,35    | 3       | 33194      |           |

### POZIDRIVE



| Tipo<br>Type | D<br>mm | L<br>mm | d<br>mm | Nº<br>Art. | €<br>pack |
|--------------|---------|---------|---------|------------|-----------|
| PZ 1         | 25      | 6,35    | 5       | 33176      |           |
| PZ 1         | 50      | 6,35    | 3       | 33195      |           |
| PZ 2         | 25      | 6,35    | 5       | 33177      |           |
| PZ 2         | 50      | 6,35    | 3       | 33196      |           |
| PZ 3         | 25      | 6,35    | 5       | 33178      |           |
| PZ 3         | 50      | 6,35    | 3       | 33197      |           |

### PLANA / Flat / Plate



| Tipo<br>Type | D<br>mm | L<br>mm | d<br>mm | Nº<br>Art. | €<br>pack |
|--------------|---------|---------|---------|------------|-----------|
| SL 4,5x0,6   | 25      | 6,35    | 5       | 33186      |           |
| SL 4,5x0,6   | 50      | 6,35    | 3       | 33204      |           |
| SL 5,5x0,8   | 25      | 6,35    | 5       | 33187      |           |
| SL 5,5x0,8   | 50      | 6,35    | 3       | 33205      |           |
| SL 6,5x1,2   | 25      | 6,35    | 5       | 33188      |           |
| SL 6,5x1,2   | 50      | 6,35    | 3       | 33206      |           |

### TORX



| Tipo<br>Type | D<br>mm | L<br>mm | d<br>mm | Nº<br>Art. | €<br>pack |
|--------------|---------|---------|---------|------------|-----------|
| Tx 8         | 25      | 6,35    | 5       | 66725      |           |
| Tx 10        | 25      | 6,35    | 5       | 33179      |           |
| Tx 10        | 50      | 6,35    | 3       | 33198      |           |
| Tx 15        | 25      | 6,35    | 5       | 33180      |           |
| Tx 15        | 50      | 6,35    | 3       | 33199      |           |
| Tx 20        | 25      | 6,35    | 5       | 33181      |           |
| Tx 20        | 50      | 6,35    | 3       | 33200      |           |
| Tx 25        | 25      | 6,35    | 5       | 33182      |           |
| Tx 25        | 50      | 6,35    | 3       | 33201      |           |
| Tx 27        | 25      | 6,35    | 5       | 33183      |           |
| Tx 27        | 50      | 6,35    | 3       | 34144      |           |
| Tx 30        | 25      | 6,35    | 5       | 33184      |           |
| Tx 30        | 50      | 6,35    | 3       | 33202      |           |
| Tx 40        | 25      | 6,35    | 5       | 33185      |           |
| Tx 40        | 50      | 6,35    | 3       | 33203      |           |

Sets  
**1521**



Tipo  
Type **Tx**

### Set 7 Pcs

| D<br>mm | L<br>mm | d<br>mm | Nº<br>Art. | € |
|---------|---------|---------|------------|---|
| 10-     |         |         |            |   |
| 15-     |         |         |            |   |
| 20-     | 25      | 6,35    | 33758      |   |
| 25-     |         |         |            |   |
| 30-40   |         |         |            |   |

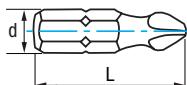
Hasta fin de existencias  
While stock lasts  
Jusqu'à la fin de stock

# Ref. 1522

## PUNTA ATORNILLAR SUPERIOR

Superior Screwdriver Bit  
Embout vissage supérieur

Zirkonio



### PHILLIPS



| Tipo<br>Type | D<br>mm | L<br>mm | d<br>mm | Nº<br>Art. | €<br>pack |
|--------------|---------|---------|---------|------------|-----------|
|--------------|---------|---------|---------|------------|-----------|

PH 1 25 6,35 5 33207

PH 3 25 6,35 5 33209

### POZIDRIVE



PZ 1 25 6,35 5 33210

### PLANA / Flat / Plate



SL 5,5x0,8 25 6,35 5 33221

SL 6,5x1,2 25 6,35 5 33222

### TORX



Tx 10 25 6,35 5 33213

Tx 15 25 6,35 5 33214

Tx 20 25 6,35 5 33215

Tx 25 25 6,35 5 33216

Tx 27 25 6,35 5 33217

Tx 30 25 6,35 5 33218

Tx 40 25 6,35 5 33219

Ref. 1522

Hasta fin de existencias  
While stock lasts  
Jusqu'à la fin de stock

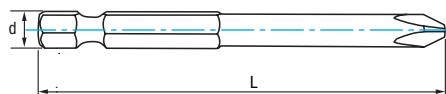
Ref. **1524**

## PUNTA ATORNILLAR EXTRA LARGA

Extra Long Screwdriver Bit  
Embout vissage extra-long

New!

Standard



**1** Uds

**5** Uds

| Tipo<br>Type | D<br>mm | L<br>mm | d<br>mm | Nº<br>Art. | €<br>pack | Nº<br>Art. | €<br>pack |
|--------------|---------|---------|---------|------------|-----------|------------|-----------|
|--------------|---------|---------|---------|------------|-----------|------------|-----------|

### PHILLIPS



|    |          |            |      |       |  |       |  |
|----|----------|------------|------|-------|--|-------|--|
| PH | <b>1</b> | <b>75</b>  | 6,35 | 23222 |  | 23225 |  |
| PH | <b>2</b> | <b>75</b>  | 6,35 | 23270 |  | 23271 |  |
| PH | <b>3</b> | <b>75</b>  | 6,35 | 23278 |  | 23279 |  |
| PH | <b>1</b> | <b>100</b> | 6,35 | 23227 |  | 23229 |  |
| PH | <b>2</b> | <b>100</b> | 6,35 | 23274 |  | 23275 |  |
| PH | <b>3</b> | <b>100</b> | 6,35 | 23280 |  | 23281 |  |
| PH | <b>1</b> | <b>150</b> | 6,35 | 23230 |  | 23231 |  |
| PH | <b>2</b> | <b>150</b> | 6,35 | 23276 |  | 23277 |  |
| PH | <b>3</b> | <b>150</b> | 6,35 | 23282 |  | 23283 |  |

### POZIDRIVE



|    |          |            |      |       |  |       |  |
|----|----------|------------|------|-------|--|-------|--|
| PZ | <b>1</b> | <b>75</b>  | 6,35 | 23284 |  | 23285 |  |
| PZ | <b>2</b> | <b>75</b>  | 6,35 | 23290 |  | 23291 |  |
| PZ | <b>3</b> | <b>75</b>  | 6,35 | 23296 |  | 23297 |  |
| PZ | <b>1</b> | <b>100</b> | 6,35 | 23286 |  | 23287 |  |
| PZ | <b>2</b> | <b>100</b> | 6,35 | 23292 |  | 23293 |  |
| PZ | <b>3</b> | <b>100</b> | 6,35 | 23298 |  | 23299 |  |
| PZ | <b>1</b> | <b>150</b> | 6,35 | 23288 |  | 23289 |  |
| PZ | <b>2</b> | <b>150</b> | 6,35 | 23294 |  | 23295 |  |
| PZ | <b>3</b> | <b>150</b> | 6,35 | 23300 |  | 23301 |  |

### TORX



|    |           |            |      |       |  |       |  |
|----|-----------|------------|------|-------|--|-------|--|
| Tx | <b>10</b> | <b>75</b>  | 6,35 | 23330 |  | 23333 |  |
| Tx | <b>15</b> | <b>75</b>  | 6,35 | 23342 |  | 23351 |  |
| Tx | <b>20</b> | <b>75</b>  | 6,35 | 23359 |  | 23360 |  |
| Tx | <b>25</b> | <b>75</b>  | 6,35 | 23366 |  | 23367 |  |
| Tx | <b>27</b> | <b>75</b>  | 6,35 | 23384 |  | 23387 |  |
| Tx | <b>30</b> | <b>75</b>  | 6,35 | 23395 |  | 23398 |  |
| Tx | <b>40</b> | <b>75</b>  | 6,35 | 23408 |  | 23409 |  |
| Tx | <b>10</b> | <b>100</b> | 6,35 | 23334 |  | 23338 |  |
| Tx | <b>15</b> | <b>100</b> | 6,35 | 23352 |  | 23353 |  |
| Tx | <b>20</b> | <b>100</b> | 6,35 | 23361 |  | 23362 |  |
| Tx | <b>25</b> | <b>100</b> | 6,35 | 23374 |  | 23376 |  |
| Tx | <b>27</b> | <b>100</b> | 6,35 | 23388 |  | 23390 |  |
| Tx | <b>30</b> | <b>100</b> | 6,35 | 23399 |  | 23400 |  |
| Tx | <b>40</b> | <b>100</b> | 6,35 | 23410 |  | 23411 |  |
| Tx | <b>10</b> | <b>150</b> | 6,35 | 23339 |  | 23340 |  |
| Tx | <b>15</b> | <b>150</b> | 6,35 | 23355 |  | 23357 |  |
| Tx | <b>20</b> | <b>150</b> | 6,35 | 23364 |  | 23365 |  |
| Tx | <b>25</b> | <b>150</b> | 6,35 | 23382 |  | 23383 |  |
| Tx | <b>27</b> | <b>150</b> | 6,35 | 23392 |  | 23393 |  |
| Tx | <b>30</b> | <b>150</b> | 6,35 | 23404 |  | 23405 |  |
| Tx | <b>40</b> | <b>150</b> | 6,35 | 23414 |  | 23417 |  |



Display box

**1510****SET PUNTAS DE PRECISIÓN**

Precision Screw Bit Set

Set embouts vissage de précision

**New!****58**  
pcs

48 Puntas / Bits / Embouts material S2

|  |                                                                     |
|--|---------------------------------------------------------------------|
|  | PH 1.0 - 1.5 - 2.0 - 2.5 - 3.0 - 3.5                                |
|  | HEX 0.9 - 1.3 - 1.5 - 2.0 - 2.5 - 3.0 - 3.5 - 4.0 - 4.5 - 5.0 - 6.0 |
|  | TS 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 15 - 20                     |
|  | SL 1.0 - 1.5 - 2.0 - 2.5 - 3.0 - 3.5                                |
|  | P 0.8 - 1.2 - 1.5 - 2.0                                             |
|  | Y 0.8 - 2.0 - 2.5 - 3.0                                             |
|  | SQ 0 - 1 - 2                                                        |
|  | TA 2.0 - 2.3                                                        |

**6 Sets**

|         |        |
|---------|--------|
| Nº Art. | €      |
| 21335   | 148,81 |

6 Vasos / Sockets / Douilles hex. material CrV

|  |                                         |
|--|-----------------------------------------|
|  | M2.5 - M3.0 - M3.5 - M4.0 - M4.5 - M5.0 |
|--|-----------------------------------------|

2 Adaptadores / Adaptors / Adaptateurs

H4.0 → H6.3      H6.3 → H4.0

**Destornillador Profesional Aleación de Aluminio****1** Profesional Aluminum Alloy Screwdriver

Tournevis en alliage alluminium

**Alargador Flexible****1** Flexible Extension Bar

Rallonge Souple

**PUNTAS DE GRADO  
INDUSTRIAL**

- Acero S2 de gran dureza (60 HRC)
- Cuellos largos para un mejor acceso
- Magnéticos

**INDUSTRIAL GRADE  
SCREW BITS**

- Shock-resisting S2 Steel (60 HRC)
- Long neck. Suitable for hard-to-reach areas
- Magnetic

**EMBOUTS À DEGRÉ  
INDUSTRIEL**

- Acier S2 de grande dureté (60 HRC)
- Coups longs pour un meilleur accès
- Magnétiques

**Ref. 1527****TOPE PROFUNDIDAD PLADUR**

Plasterboard Depth Stop

Butée profondeur Placoplâtre



| Tipo<br>Type | D<br>mm | L<br>mm | d<br>mm |   | Nº Art. | €<br>pack |
|--------------|---------|---------|---------|---|---------|-----------|
| PH           | 2       | 25      | 6,35    | 2 | 77339   | 3,59      |
| PH           | 2       | 50      | 6,35    | 2 | 74858   | 4,48      |
| PZ           | 2       | 25      | 6,35    | 2 | 81588   | 3,59      |
| PZ           | 2       | 50      | 6,35    | 2 | 81589   | 4,48      |

**Set 4 Pcs**

| Cont.            | Nº Art. | €           |
|------------------|---------|-------------|
| <b>PH2 - L25</b> |         |             |
| <b>PH2 - L50</b> | 81594   | <b>8,09</b> |
| <b>PZ2 - L25</b> |         |             |
| <b>PZ2 - L50</b> |         |             |



Ref. **1529**

## ADAPTADORES PUNTAS ATORNILLAR

Screwdriver Bit Adaptors

Adaptateurs embouts vissage



| Tipo<br>Type                   | L<br>mm | d<br>mm |   | Nº<br>Art. | €<br>pack |
|--------------------------------|---------|---------|---|------------|-----------|
| Quick Lock<br>INOX / Stainless | 60      | 6,35    | 1 | 82687      |           |



| Tipo<br>Type | L<br>mm | d<br>mm |   | Nº<br>Art. | €<br>pack |
|--------------|---------|---------|---|------------|-----------|
| Quick Lock   | 60      | 6,35    | 1 | 33746      |           |



| Tipo<br>Type | L<br>mm | d<br>mm |   | Nº<br>Art. | €<br>pack |
|--------------|---------|---------|---|------------|-----------|
| SDS plus     | 78      | 6,35    | 1 | 33745      |           |



| Tipo<br>Type  | L<br>mm | d<br>mm |   | Nº<br>Art. | €<br>pack |
|---------------|---------|---------|---|------------|-----------|
| Magnético IND | 60      | 6,35    | 1 | 33747      |           |

**Adaptador Magnético para Tornillos**  
Magnetic Screw Adaptor  
Adaptateur magnétique pour vis



| Tipo<br>Type |    | mm | L<br>mm | d<br>mm |       | Nº<br>Art. | € |
|--------------|----|----|---------|---------|-------|------------|---|
| Adapt.       | 6  | 65 | 6,35    | 1       | 42466 |            |   |
| Adapt.       | 7  | 65 | 6,35    | 1       | 42472 |            |   |
| Adapt.       | 8  | 65 | 6,35    | 1       | 42475 |            |   |
| Adapt.       | 10 | 65 | 6,35    | 1       | 42478 |            |   |
| Adapt.       | 12 | 65 | 6,35    | 1       | 42481 |            |   |
| Adapt.       | 13 | 65 | 6,35    | 1       | 42483 |            |   |

\* Interno / Internal / Intérieur



Set **1529**

**Adaptador Magnético para Tornillos**  
Magnetic Screw Adaptor  
Adaptateur magnétique pour vis

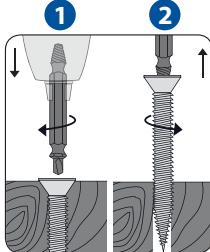
**5 Pcs**

| D<br>mm     | L<br>mm | d<br>mm |   | Nº<br>Art. | € |
|-------------|---------|---------|---|------------|---|
| 6-7-8-10-13 | 65      | 6,35    | 5 | 69751      |   |

# Ref. 3407

## EXTRACTORES IMPACTO

Impact Extractor  
Extracteurs impact



1. Taladrar el tornillo  
2. Dar la vuelta y extraer  
1. Drill the screw  
2. Turn over and remove  
1. Percer la vis  
2. Retourner et retirez

| Mod. | Cap. (mm) | Nº Art. | € |
|------|-----------|---------|---|
| Nº 1 | 3-5       | 14953   |   |
| Nº 2 | 4-8       | 14955   |   |
| Nº 3 | 5-10      | 14956   |   |
| Nº 4 | 6-12      | 14958   |   |



Set 17 Pcs

| Nº Art. | € |
|---------|---|
| 72898   |   |



17  
pcs

Extractores Impacto  
Impact Extractors  
Extracteurs impact  
N.º 1 - 2 - 3 - 4

PH  
d mm: 6,35  
PH1  
PH2  
PH3  
l-25 mm-

PZ  
d mm: 6,35  
PZ1  
PZ2  
PZ3  
l-25 mm-

Tx  
d mm: 6,35  
T10  
T15  
T20  
T25  
T30  
T40  
l-25 mm-

Adapt. Quick-Lock  
L mm: 60 - d mm: 6,35



Box-Pallet  
3407

6 Sets

| Nº Art. | € |
|---------|---|
| 74792   |   |

Ref. 1500

## BROCAS - PUNTAS ATORNILLAR

Screwdriver Bits – Drill Bits  
Forets – Embouts vissage



20 Pcs.

| Uds.<br>pack | Nº<br>Art. | €<br>1 Set |
|--------------|------------|------------|
| 1            | 18225      |            |

Hasta fin de existencias  
While stock lasts  
Jusqu'à la fin de stock

### Puntas 1/4" (25 mm) T Bits / Embouts

TX10 - TX15 - TX20 - TX25 - TX30



### Brocas Metal 1/4"

Metal Drill Bits / Forets

ø 3 - 3,5 - 4 - 5 - 6 mm



### Puntas 1/4" (25 mm) PH-PZ Bits / Embouts

PH1 - PH2 - PZ1 - PZ2 - PZ3



### Puntas 1/4" (50 mm) HEX-SL Bits / Embouts

HEX4 - SL4,5 - SL5,5 - SL6,5 - Quick Lock



Ref. 1461

## SET BROCAS Y PUNTAS ATORNILLAR

Drill Bit & Screwdriver Bit Set  
Jeu de forets et embouts vissage



72  
pcs

### Brocas Metal Metal Drill Bits Forets Métal

2 - 3 - 4 - 5 - 6 - 8 mm

### Brocas Pared Masonry Drill Bits Forets Maçonnerie

4 - 5 - 6 - 8 mm

### Brocas Madera Wood Drill Bits Forets Bois

3 - 4 - 5 - 6 - 8 mm

### Adapt. Magnético Magnetic Adapt. Adapt. Magnétique

6 - 7 - 8  
10 - 13 mm

### Adapt. Quick-Lock INOX/Stainless L mm: 60 - d mm: 6,35

1 pc.

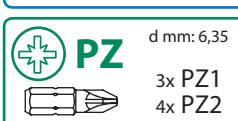
### Cuter Metálico Hoja Partible Heavy Duty Metal Box Cutter

Couteaux Métallique  
à Lames Rétractables  
1 pc.

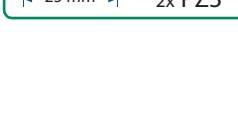
### Puntas Atornillar / Screwdriver Bits / Embouts Vissage



d mm: 6,35



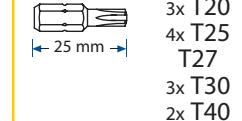
d mm: 6,35



d mm: 6,35



d mm: 6,35



d mm: 6,35



d mm: 6,35



d mm: 6,35

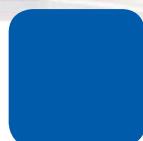


d mm: 6,35



d mm: 6,35

| Nº<br>Art. | € |
|------------|---|
| 78504      |   |



## DOBLE BLISTER

Double Blister  
Double blister

### METAL

Metal  
Métal

370

### CONSTRUCCIÓN

Construction  
Construction

374

### MADERA

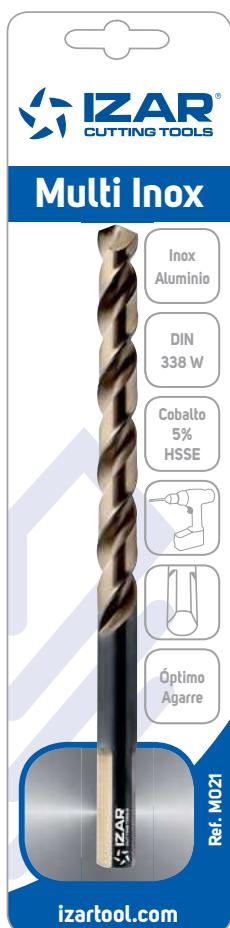
Wood  
Bois

379



369





**BROCA UNIVERSAL COBALTO MULTI INOX**  
Multi-STAINLESS Cobalt Universal Drill Bit  
Foret universel Cobalt Multi INOX

Ref. M021



| D mm  | L mm | I mm |   | Nº Art. | € |
|-------|------|------|---|---------|---|
| 1,00  | 34   | 12   | 2 | 67643   | * |
| 1,50  | 40   | 18   | 2 | 67644   | * |
| 2,00  | 49   | 24   | 2 | 67645   | * |
| 2,50  | 57   | 30   | 2 | 67646   | * |
| 3,00  | 61   | 33   | 2 | 67647   | * |
| 3,25  | 65   | 36   | 2 | 67648   | * |
| 3,50  | 70   | 39   | 2 | 67650   | * |
| 4,00  | 75   | 43   | 2 | 67651   | * |
| 4,25  | 75   | 43   | 1 | 67652   |   |
| 4,50  | 80   | 47   | 1 | 67653   |   |
| 5,00  | 86   | 52   | 1 | 67654   |   |
| 5,50  | 93   | 57   | 1 | 67655   |   |
| 6,00  | 93   | 57   | 1 | 67656   |   |
| 6,50  | 101  | 63   | 1 | 67657   |   |
| 7,00  | 109  | 69   | 1 | 67658   |   |
| 7,50  | 109  | 69   | 1 | 67659   |   |
| 8,00  | 117  | 75   | 1 | 67660   |   |
| 8,50  | 117  | 75   | 1 | 67661   |   |
| 9,00  | 125  | 81   | 1 | 67662   |   |
| 10,00 | 133  | 87   | 1 | 67663   |   |
| 11,00 | 142  | 94   | 1 | 67664   |   |
| 12,00 | 151  | 101  | 1 | 67665   |   |
| 13,00 | 151  | 101  | 1 | 67666   |   |

\* € = 2 uds.

**Línea 1m  
M021**

**BROCA UNIVERSAL COBALTO MULTI INOX**  
Multi-STAINLESS Cobalt Universal Drill Bit  
Foret universel Cobalt Multi INOX



|     |   |     |   |      |     |   |      |     |   |     |   |     |   |     |   |     |   |    |    |
|-----|---|-----|---|------|-----|---|------|-----|---|-----|---|-----|---|-----|---|-----|---|----|----|
| Ø   | 2 | 2,5 | 3 | 3,25 | 3,5 | 4 | 4,25 | 4,5 | 5 | 5,5 | 6 | 6,5 | 7 | 7,5 | 8 | 8,5 | 9 | 10 | 12 |
| Pcs | 5 | 5   | 5 | 5    | 5   | 5 | 5    | 5   | 5 | 5   | 5 | 5   | 5 | 5   | 5 | 5   | 5 | 5  | 5  |

Ref. 4995 - Nº Art. 70995: €

**Sets**

**BROCA UNIVERSAL COBALTO MULTI INOX**  
Multi-STAINLESS Cobalt Universal Drill Bit  
Foret Universel Cobalt Multi INOX



| Ø mm |   | Nº Art. | € |
|------|---|---------|---|
| 2-8  | 6 | 34204   |   |



| Ø mm       |    | Nº Art. | € |
|------------|----|---------|---|
| 1-10 x0,50 | 19 | 34201   |   |



**BROCA MANGO CILÍNDRICO COBALTO INOX**  
**STAINLESS Cobalt Straight Shank Drill Bit**  
**Foret queue cylindrique Cobalt INOX**

Ref. **M020** Onix M102



**INOX**  
Stainless Steel

**Aluminio**  
Aluminium

DIN  
338 W      Cobalto  
5%  
HSSE



| D<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | € |
|---------|---------|---------|---|------------|---|
| 1,00    | 34      | 12      | 2 | 68049      | * |
| 1,50    | 40      | 18      | 2 | 68050      | * |
| 2,00    | 49      | 24      | 2 | 68052      | * |
| 2,50    | 57      | 30      | 2 | 68053      | * |
| 3,00    | 61      | 33      | 2 | 68054      | * |
| 3,25    | 65      | 36      | 2 | 68055      | * |
| 3,50    | 70      | 39      | 2 | 68056      | * |
| 4,00    | 75      | 43      | 2 | 68057      | * |
| 4,25    | 75      | 43      | 1 | 68058      | * |
| 4,50    | 80      | 47      | 1 | 68060      | * |
| 5,00    | 86      | 52      | 1 | 68061      | * |
| 5,50    | 93      | 57      | 1 | 68062      | * |
| 6,00    | 93      | 57      | 1 | 68063      | * |
| 6,50    | 101     | 63      | 1 | 68064      | * |
| 7,00    | 109     | 69      | 1 | 68065      | * |
| 7,50    | 109     | 69      | 1 | 68066      | * |
| 8,00    | 117     | 75      | 1 | 68067      | * |
| 8,50    | 117     | 75      | 1 | 68068      | * |
| 9,00    | 125     | 81      | 1 | 68069      | * |
| 10,00   | 133     | 87      | 1 | 68070      | * |
| 11,00   | 142     | 94      | 1 | 68071      | * |
| 12,00   | 151     | 101     | 1 | 68072      | * |
| 13,00   | 151     | 101     | 1 | 68073      | * |

\* € = 2 uds.

**Línea 1m  
M020**

**BROCA MANGO CILÍNDRICO COBALTO INOX**  
**STAINLESS Cobalt Straight Shank Drill Bit**  
**Foret queue cylindrique Cobalt INOX**



|     |   |     |   |      |     |   |      |     |   |     |   |     |   |     |   |     |   |    |    |
|-----|---|-----|---|------|-----|---|------|-----|---|-----|---|-----|---|-----|---|-----|---|----|----|
| Ø   | 2 | 2,5 | 3 | 3,25 | 3,5 | 4 | 4,25 | 4,5 | 5 | 5,5 | 6 | 6,5 | 7 | 7,5 | 8 | 8,5 | 9 | 10 | 12 |
| Pcs | 5 | 5   | 5 | 5    | 5   | 5 | 5    | 5   | 5 | 5   | 5 | 5   | 5 | 5   | 5 | 5   | 5 | 5  | 5  |

Ref. 4995 - Nº Art. 71036: €

**Sets**

**BROCA MANGO CILÍNDRICO COBALTO INOX**  
**STAINLESS Cobalt Straight Shank Drill Bit**  
**Foret queue cylindrique Cobalt INOX**



| Ø mm |   | Nº Art. | € |
|------|---|---------|---|
| 2-8  | 6 | 25367   |   |



| Ø mm        |    | Nº Art. | € |
|-------------|----|---------|---|
| 1-10 x 0,50 | 19 | 24636   |   |





**BROCA MANGO CILÍNDRICO HSS SPEED POINT**  
Speed Point HSS Straight Shank Drill Bit  
Foret queue cylindrique HSS Speed Point

Ref. **M013** Onix M100

| D<br>mm      | L<br>mm | I<br>mm |   | Nº<br>Art. | € |
|--------------|---------|---------|---|------------|---|
| <b>1,00</b>  | 34      | 12      | 2 | 67996      | * |
| <b>1,50</b>  | 40      | 18      | 2 | 67998      | * |
| <b>2,00</b>  | 49      | 24      | 2 | 67999      | * |
| <b>2,50</b>  | 57      | 30      | 2 | 68001      | * |
| <b>3,00</b>  | 61      | 33      | 2 | 68002      | * |
| <b>3,25</b>  | 65      | 36      | 2 | 68004      | * |
| <b>3,50</b>  | 70      | 39      | 2 | 68005      | * |
| <b>4,00</b>  | 75      | 43      | 2 | 68007      | * |
| <b>4,25</b>  | 75      | 43      | 1 | 68008      |   |
| <b>4,50</b>  | 80      | 47      | 1 | 68010      |   |
| <b>5,00</b>  | 86      | 52      | 1 | 68011      |   |
| <b>5,50</b>  | 93      | 57      | 1 | 68013      |   |
| <b>6,00</b>  | 93      | 57      | 1 | 68014      |   |
| <b>6,50</b>  | 101     | 63      | 1 | 68015      |   |
| <b>7,00</b>  | 109     | 69      | 1 | 68016      |   |
| <b>7,50</b>  | 109     | 69      | 1 | 68017      |   |
| <b>8,00</b>  | 117     | 75      | 1 | 68018      |   |
| <b>8,50</b>  | 117     | 75      | 1 | 68019      |   |
| <b>9,00</b>  | 125     | 81      | 1 | 68020      |   |
| <b>10,00</b> | 133     | 87      | 1 | 68021      |   |
| <b>11,00</b> | 142     | 94      | 1 | 68022      |   |
| <b>12,00</b> | 151     | 101     | 1 | 68023      |   |
| <b>13,00</b> | 151     | 101     | 1 | 68025      |   |

\* € = 2 uds.

**Línea 1m  
M013**

**BROCA MANGO CILÍNDRICO HSS SPEED POINT**  
Speed Point HSS Straight Shank Drill Bit  
Foret queue cylindrique HSS Speed Point



|     |   |     |   |      |     |   |      |     |   |     |   |     |   |     |   |     |   |    |    |
|-----|---|-----|---|------|-----|---|------|-----|---|-----|---|-----|---|-----|---|-----|---|----|----|
| Ø   | 2 | 2,5 | 3 | 3,25 | 3,5 | 4 | 4,25 | 4,5 | 5 | 5,5 | 6 | 6,5 | 7 | 7,5 | 8 | 8,5 | 9 | 10 | 12 |
| Pcs | 5 | 5   | 5 | 5    | 5   | 5 | 5    | 5   | 5 | 5   | 5 | 5   | 5 | 5   | 5 | 5   | 5 | 5  | 5  |

Ref. 4995 - Nº Art. 71045: €

**Sets**

**BROCA MANGO CILÍNDRICO HSS SPEED POINT**  
Speed Point HSS Straight Shank Drill Bit  
Foret queue cylindrique HSS Speed Point



| Ø mm       |   | Nº Art. | € |
|------------|---|---------|---|
| <b>2-8</b> | 6 | 25365   |   |



| Ø mm              |    | Nº Art. | € |
|-------------------|----|---------|---|
| <b>1-10 x0,50</b> | 19 | 18808   |   |



**BROCA MANGO REBAJADO HSS**  
HSS Reduced Shank Drill Bit  
Foret queue réduit HSS

Ref. **MO07**

Onix M101



Fundición  
Cast Iron  
Fonte

Aluminio  
Aluminium



HSS



DIN  
338 N  
Rectificada



| D<br>mm      | L<br>mm | I<br>mm |   | Nº<br>Art. | € |
|--------------|---------|---------|---|------------|---|
| <b>12,00</b> | 151     | 101     | 1 | 68026      |   |
| <b>12,50</b> | 151     | 101     | 1 | 68028      |   |
| <b>13,00</b> | 151     | 101     | 1 | 68029      |   |
| <b>13,50</b> | 160     | 108     | 1 | 68031      |   |
| <b>14,00</b> | 160     | 108     | 1 | 68032      |   |
| <b>14,50</b> | 169     | 114     | 1 | 68034      |   |
| <b>15,00</b> | 169     | 114     | 1 | 68035      |   |
| <b>15,50</b> | 178     | 120     | 1 | 68036      |   |
| <b>16,00</b> | 178     | 120     | 1 | 68037      |   |
| <b>16,50</b> | 184     | 125     | 1 | 68038      |   |
| <b>17,00</b> | 184     | 125     | 1 | 68039      |   |
| <b>17,50</b> | 191     | 130     | 1 | 68040      |   |
| <b>18,00</b> | 191     | 130     | 1 | 68041      |   |
| <b>18,50</b> | 198     | 135     | 1 | 68043      |   |
| <b>19,00</b> | 198     | 135     | 1 | 68044      |   |
| <b>19,50</b> | 204     | 140     | 1 | 68046      |   |
| <b>20,00</b> | 205     | 140     | 1 | 68047      |   |

**Línea 1m  
MO07**

**BROCA MANGO REBAJADO HSS**  
HSS Reduced Shank Drill Bit  
Foret queue réduit HSS



| Ø   | 12 | 12,5 | 13 | 13,5 | 14 | 14,5 | 15 | 15,5 | 16 | 16,5 | 17 | 17,5 | 18 | 18,5 | 19 | 19,5 | 20 |
|-----|----|------|----|------|----|------|----|------|----|------|----|------|----|------|----|------|----|
| Pcs | 2  | 2    | 2  | 2    | 2  | 2    | 2  | 2    | 2  | 2    | 2  | 2    | 2  | 2    | 2  | 2    | 2  |

Ref. 4995 - Nº Art. 71049: €



**BROCA-MARTILLO SDS PLUS**  
SDS plus Rotary Hammer Drill Bit  
Foret percussion SDS plus

Ref. M890

Onix M304



Hormigón bloque  
Concrete Block  
Parpaing  
Ladrillo  
Brick  
Brique  
Cemento  
Cement  
Ciment



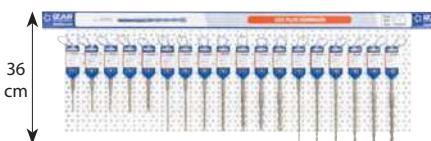
| D<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | € |
|---------|---------|---------|---|------------|---|
| 04,00   | 110     | 50      | 1 | 67962      |   |
| 05,00   | 110     | 50      | 1 | 67963      |   |
| 05,00   | 160     | 100     | 1 | 67964      |   |
| 06,00   | 110     | 50      | 1 | 67965      |   |
| 06,00   | 160     | 100     | 1 | 67966      |   |
| 06,00   | 210     | 150     | 1 | 67967      |   |
| 06,00   | 260     | 200     | 1 | 67968      |   |
| 08,00   | 110     | 50      | 1 | 67969      |   |
| 08,00   | 160     | 100     | 1 | 67970      |   |
| 08,00   | 210     | 150     | 1 | 67971      |   |
| 08,00   | 260     | 200     | 1 | 67972      |   |
| 10,00   | 110     | 50      | 1 | 67973      |   |
| 10,00   | 160     | 100     | 1 | 67974      |   |
| 10,00   | 210     | 150     | 1 | 67975      |   |
| 10,00   | 260     | 200     | 1 | 67976      |   |
| 12,00   | 160     | 100     | 1 | 67977      |   |
| 12,00   | 210     | 150     | 1 | 67978      |   |
| 12,00   | 260     | 200     | 1 | 67979      |   |
| 14,00   | 160     | 100     | 1 | 67980      |   |
| 14,00   | 210     | 150     | 1 | 67981      |   |
| 16,00   | 160     | 100     | 1 | 67982      |   |
| 16,00   | 210     | 150     | 1 | 67983      |   |
| 16,00   | 260     | 200     | 1 | 67984      |   |
| 16,00   | 310     | 250     | 1 | 67986      |   |

**Línea 1m  
M890**

**BROCA-MARTILLO SDS PLUS**  
SDS plus Rotary Hammer Drill Bit  
Foret percussion SDS plus

|     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Ø   | 4    | 5    | 6    | 8    | 10   | 5    | 6    | 8    | 10   | 12   | 14   | 16   | 8    | 10   | 12   | 14   | 16   |
| Pcs | L110 | L110 | L110 | L110 | L110 | L160 | L210 | L210 | L210 | L210 | L210 |

Ref. 4995 - Nº Art. 71056: €



**Línea 33 cm  
M890**

**BROCA-MARTILLO SDS PLUS**  
SDS plus Rotary Hammer Drill Bit  
Foret percussion SDS plus

|     |      |      |      |      |      |      |
|-----|------|------|------|------|------|------|
| Ø   | 6    | 8    | 10   | 12   | 16   | 16   |
| Pcs | L260 | L260 | L260 | L260 | L260 | L310 |

Ref. 4995 - Nº Art. 71059: €



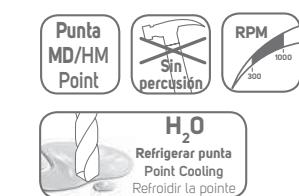
**BROCA PORCELÁNICO**  
PORCELAIN Drill Bit  
Foret PORCELAINE

Ref. **M882** Onix M302



**Porcelánico**  
Porcelain  
Porcelaine  
**Piedra**  
Stone  
Pierre  
**Granito**  
Granite  
**Mármol**  
Marble  
Marbre

| D<br>mm      | L<br>mm | I<br>mm |   | Nº<br>Art. | € |
|--------------|---------|---------|---|------------|---|
| <b>3,00</b>  | 85      | 42      | 1 | 67944      |   |
| <b>3,50</b>  | 85      | 42      | 1 | 67945      |   |
| <b>4,00</b>  | 85      | 50      | 1 | 67946      |   |
| <b>4,50</b>  | 85      | 50      | 1 | 67947      |   |
| <b>5,00</b>  | 85      | 50      | 1 | 67948      |   |
| <b>6,00</b>  | 100     | 65      | 1 | 67950      |   |
| <b>7,00</b>  | 125     | 75      | 1 | 67951      |   |
| <b>8,00</b>  | 125     | 75      | 1 | 67952      |   |
| <b>9,00</b>  | 150     | 90      | 1 | 67953      |   |
| <b>10,00</b> | 150     | 90      | 1 | 67954      |   |
| <b>11,00</b> | 150     | 90      | 1 | 67955      |   |



**H₂O**  
Refrigerar punta  
Point Cooling  
Rafraîchir la pointe

**Línea 1m  
M882**

**BROCA PORCELÁNICO**  
PORCELAIN Drill Bit  
Foret PORCELAINE



|     |          |            |          |            |          |          |          |          |          |           |           |
|-----|----------|------------|----------|------------|----------|----------|----------|----------|----------|-----------|-----------|
| Ø   | <b>3</b> | <b>3,5</b> | <b>4</b> | <b>4,5</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> | <b>9</b> | <b>10</b> | <b>11</b> |
| Pcs | 4        | 2          | 4        | 2          | 5        | 5        | 4        | 2        | 4        | 4         | 2         |

Ref. 4995 - N° Art. 71067: €



**BROCA PUNTA METAL DURO PARED PROFESIONAL**  
Professional Concrete Carbide Tipped Drill Bit  
Foret pointe carbure Béton Professionnel

Ref. M886

Onix M301

| D<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | € |
|---------|---------|---------|---|------------|---|
| 3,00    | 60      | 35      | 1 | 67926      |   |
| 4,00    | 75      | 45      | 1 | 67927      |   |
| 5,00    | 85      | 40      | 1 | 67928      |   |
| 6,00    | 100     | 55      | 1 | 67929      |   |
| 7,00    | 100     | 55      | 1 | 67930      |   |
| 8,00    | 120     | 70      | 1 | 67931      |   |
| 9,00    | 120     | 70      | 1 | 67932      |   |
| 10,00   | 120     | 70      | 1 | 67933      |   |
| 12,00   | 150     | 90      | 1 | 67934      |   |
| 14,00   | 150     | 90      | 1 | 67935      |   |
| 16,00   | 150     | 90      | 1 | 67936      |   |

**Línea 1m  
M886**

**BROCA PUNTA METAL DURO PARED PROFESIONAL**  
Professional Concrete Carbide Tipped Drill Bit  
Foret pointe carbure Béton Professionnel



| Ø   | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 12 | 14 | 16 |
|-----|----|----|----|----|----|----|----|----|----|----|----|
| Pcs | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |

Ref. 4995 - Nº Art. 71071: €

**Sets**

**BROCA PUNTA METAL DURO PARED PROFESIONAL**  
Professional Concrete Carbide Tipped Drill Bit  
Foret pointe carbure Béton Professionnel



| Ø mm |   | Nº<br>Art. | € |
|------|---|------------|---|
| 4-10 | 5 | 30220      |   |



| Ø mm |   | Nº<br>Art. | € |
|------|---|------------|---|
| 3-10 | 8 | 21653      |   |



**BROCA PUNTA METAL DURO PARED STANDARD**  
Standard MASONRY Carbide Tipped Drill Bit  
Foret pointe carbure MAÇONNERIE Standard

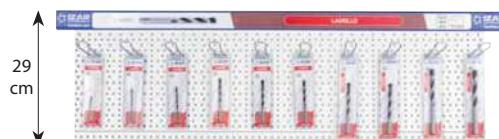
Ref. **M880** Onix M300



| D<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | € |
|---------|---------|---------|---|------------|---|
| 3,00    | 60      | 30      | 1 | 67914      |   |
| 4,00    | 75      | 40      | 1 | 67916      |   |
| 5,00    | 85      | 50      | 1 | 67918      |   |
| 6,00    | 100     | 60      | 1 | 67919      |   |
| 7,00    | 100     | 60      | 1 | 67920      |   |
| 8,00    | 120     | 80      | 1 | 67921      |   |
| 9,00    | 120     | 80      | 1 | 67922      |   |
| 10,00   | 120     | 80      | 1 | 67923      |   |
| 12,00   | 150     | 80      | 1 | 67924      |   |
| 14,00   | 150     | 95      | 1 | 67925      |   |

## Línea 1m **M880**

**BROCA PUNTA METAL DURO PARED STANDARD**  
Standard MASONRY Carbide Tipped Drill Bit  
Foret pointe carbure MAÇONNERIE Standard



|     |    |    |    |    |    |    |    |    |    |    |
|-----|----|----|----|----|----|----|----|----|----|----|
| Ø   | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 12 | 14 |
| Pcs | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |

Ref. 4995 - Nº Art. 71078: €

## Sets

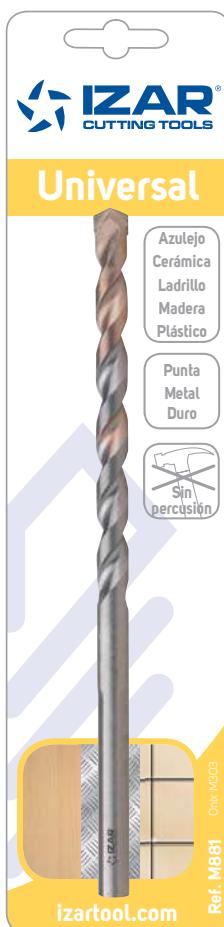
**BROCA PUNTA METAL DURO PARED STANDARD**  
Standard MASONRY Carbide Tipped Drill Bit  
Foret pointe carbure MAÇONNERIE Standard



| Ø mm |   | Nº Art. | € |
|------|---|---------|---|
| 4-10 | 5 | 30215   |   |



| Ø mm |   | Nº Art. | € |
|------|---|---------|---|
| 3-10 | 8 | 30219   |   |



## BROCA UNIVERSAL UNIVERSAL Drill Bit Foret UNIVERSEL

Ref. **M881** Onix M303



Azulejo  
Tile  
Carreau  
Cerámica  
Ceramics  
Céramique  
Ladrillo  
Brick  
Brique  
Madera  
Wood  
Bois  
Plástico  
Plastics  
Plastique

Punta  
MD/HM  
Point  
Sin  
percusión

| D<br>mm      | L<br>mm | I<br>mm |   | Nº<br>Art. | € |
|--------------|---------|---------|---|------------|---|
| <b>4,00</b>  | 103     | 50      | 1 | 67956      |   |
| <b>5,00</b>  | 112     | 50      | 1 | 67957      |   |
| <b>6,00</b>  | 123     | 60      | 1 | 67958      |   |
| <b>8,00</b>  | 134     | 80      | 1 | 67959      |   |
| <b>10,00</b> | 135     | 80      | 1 | 67960      |   |
| <b>12,00</b> | 153     | 90      | 1 | 67961      |   |

## Línea 33 cm **M881**

## BROCA UNIVERSAL UNIVERSAL Drill Bit Foret UNIVERSEL



| Ø   | 4 | 5 | 6 | 8 | 10 | 12 |
|-----|---|---|---|---|----|----|
| Pcs | 5 | 5 | 5 | 5 | 5  | 5  |

Ref. 4995 - N° Art. 71081: €

Ref. **M836** Onix M307



## BROCA VIDRIO GLASS Drill Bit Foret VERRE



Vidrio  
Glass  
Verre  
Cerámica  
Ceramics  
Céramique  
Cristal  
Crystal  
Cristal

Punta  
MD/HM  
Point  
Sin  
percusión

| D<br>mm      | L<br>mm |   | Nº<br>Art. | € |
|--------------|---------|---|------------|---|
| <b>3,00</b>  | 58      | 1 | 67987      |   |
| <b>4,00</b>  | 64      | 1 | 67989      |   |
| <b>5,00</b>  | 70      | 1 | 67990      |   |
| <b>6,00</b>  | 76      | 1 | 67992      |   |
| <b>8,00</b>  | 83      | 1 | 67993      |   |
| <b>10,00</b> | 90      | 1 | 67995      |   |

## Línea 33 cm **M836**

## BROCA VIDRIO GLASS Drill Bit Foret VERRE



| Ø   | 3 | 4 | 5 | 6 | 8 | 10 |
|-----|---|---|---|---|---|----|
| Pcs | 5 | 5 | 5 | 5 | 5 | 5  |

Ref. 4995 - N° Art. 71085: €





**BROCA PUNTA CENTRAR**  
Center Point Drill Bit  
Foret auto-centreur

Ref. **M640** Onix M200



Madera  
Wood  
Bois  
Aglomerado  
Chipboard  
Aggloméré

CRV

| D<br>mm      | L<br>mm | I<br>mm |   | Nº<br>Art. | € |
|--------------|---------|---------|---|------------|---|
| <b>3,00</b>  | 61      | 33      | 1 | 68074      |   |
| <b>4,00</b>  | 75      | 43      | 1 | 68076      |   |
| <b>5,00</b>  | 86      | 52      | 1 | 68077      |   |
| <b>6,00</b>  | 97      | 60      | 1 | 68078      |   |
| <b>7,00</b>  | 109     | 69      | 1 | 68079      |   |
| <b>8,00</b>  | 117     | 75      | 1 | 68080      |   |
| <b>9,00</b>  | 125     | 80      | 1 | 68081      |   |
| <b>10,00</b> | 133     | 87      | 1 | 68082      |   |
| <b>11,00</b> | 142     | 89      | 1 | 68083      |   |
| <b>12,00</b> | 151     | 96      | 1 | 68084      |   |
| <b>13,00</b> | 191     | 96      | 1 | 68085      |   |
| <b>14,00</b> | 151     | 97      | 1 | 68086      |   |
| <b>15,00</b> | 160     | 100     | 1 | 68087      |   |
| <b>16,00</b> | 160     | 100     | 1 | 68088      |   |
| <b>18,00</b> | 180     | 120     | 1 | 68089      |   |
| <b>20,00</b> | 200     | 130     | 1 | 68090      |   |

## Línea 1m **M640**

**BROCA PUNTA CENTRAR**  
Center Point Drill Bit  
Foret auto-centreur



| Ø mm | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 18 | 20 |
|------|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|
| Pcs  | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5  | 5  | 5  | 5  | 5  | 3  | 3  | 3  |    |

Ref. 4995 - Nº Art. 71092: €

## Sets

**BROCA PUNTA CENTRAR**  
Center Point Drill Bit  
Foret auto-centreur



| Ø mm        |   | Nº<br>Art. | € |
|-------------|---|------------|---|
| <b>4-10</b> | 5 | 30223      |   |



| Ø mm        |   | Nº<br>Art. | € |
|-------------|---|------------|---|
| <b>3-10</b> | 8 | 30226      |   |





### BROCA PLANA Flat Bit Mèche plate



Madera  
Wood  
Bois  
Aglomerado  
Chipboard  
Aggloméré



| D<br>mm      | L<br>mm |   | Nº<br>Art. | € |
|--------------|---------|---|------------|---|
| <b>6,00</b>  | 160     | 1 | 68091      |   |
| <b>8,00</b>  | 160     | 1 | 68092      |   |
| <b>10,00</b> | 160     | 1 | 68093      |   |
| <b>12,00</b> | 160     | 1 | 68094      |   |
| <b>14,00</b> | 160     | 1 | 68095      |   |
| <b>16,00</b> | 160     | 1 | 68096      |   |
| <b>18,00</b> | 160     | 1 | 68097      |   |
| <b>20,00</b> | 160     | 1 | 68098      |   |
| <b>22,00</b> | 160     | 1 | 68099      |   |
| <b>24,00</b> | 160     | 1 | 68100      |   |
| <b>25,00</b> | 160     | 1 | 68101      |   |
| <b>26,00</b> | 160     | 1 | 68102      |   |
| <b>28,00</b> | 160     | 1 | 68103      |   |
| <b>30,00</b> | 160     | 1 | 68104      |   |
| <b>32,00</b> | 160     | 1 | 68105      |   |
| <b>36,00</b> | 160     | 1 | 68106      |   |
| <b>38,00</b> | 160     | 1 | 68107      |   |

### Línea 1m **M650**

### BROCA PLANA Flat Bit Mèche plate

| ø   | 6  | 8  | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 25 | 26 | 28 | 30 | 32 | 36 | 38 | L305 |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| Pcs | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 1  |      |

Ref. 4995 - Nº Art. 71088: €



## PRESENTACIONES

Presentations

Presentations

### PRESENTACIÓN IZAR EN LÍNEA

IZAR Line Presentation  
Presentation IZAR ligne

382

### PRESENTACIÓN IZAR EN CASCADA

IZAR Cascade Presentation  
Presentation IZAR cascade

390

### EXPOSITORES APIABLES

Stacking Exhibitors  
Présentoirs apilables

394



# ¡NUEVA IMPLANTACIÓN DOBLE BLISTER!

## New Double Blister Stock Offer!

### Nouveau implantation Double Blister!



# ¡NUEVA IMPLANTACIÓN DOBLE BLISTER!

New Double Blister Stock Offer!

Nouveau implantation Double Blister!

1m  
**M650**

BROCA PLANA  
Flat Bit  
Mèche plate

Ref. 4995 - Nº Art. 71088: €  
>> Pag. 380

1m  
**M880**

BROCA PUNTA METAL DURO PARED STANDARD  
Standard MASONRY Carbide Tipped Drill Bit  
Foret pointe carbure MAÇONNERIE standard

Ref. 4995 - Nº Art. 71078: €  
>> Pag. 377

1m  
**M640**

BROCA PUNTA CENTRAR  
Center Point Drill Bit  
Foret auto-centreur

Ref. 4995 - Nº Art. 71092: €  
>> Pag. 379

33cm  
**M881**

BROCA UNIVERSAL  
UNIVERSAL Drill Bit  
Foret UNIVERSEL

Ref. 4995 - Nº Art. 71081: €  
>> Pag. 378

1m  
**M013**

BROCA MANGO CILÍNDRICO HSS SPEED POINT  
Speed Point HSS Straight Shank Drill Bit  
Foret queue cylindrique HSS Speed Point

Ref. 4995 - Nº Art. 71045: €  
>> Pag. 372

33cm  
**M836**

BROCA VIDRIO  
GLASS Drill Bit  
Foret VERRE

Ref. 4995 - Nº Art. 71085: €  
>> Pag. 378

1m  
**M021**

BROCA UNIVERSAL COBALTO MULTI INOX  
Multi-STAINLESS Cobalt Universal Drill Bit  
Foret Universel cobalt Multi INOX

Ref. 4995 - Nº Art. 70995: €  
>> Pag. 370

1m  
**M882**

BROCA PORCELÁNICO  
PORCELAIN Drill Bit  
Foret PORCELAINE

Ref. 4995 - Nº Art. 71067: €  
>> Pag. 375

1m  
**M020**

BROCA MANGO CILÍNDRICO COBALTO INOX  
STAINLESS Cobalt Straight Shank Drill Bit  
Foret queue cylindrique Cobalt INOX

Ref. 4995 - Nº Art. 71036: €  
>> Pag. 371

1m  
**M886**

BROCA PUNTA METAL DURO PARED PROFESIONAL  
Professional Concrete Carbide Tipped Drill Bit  
Foret pointe carbure Béton Professionnel

Ref. 4995 - Nº Art. 71071: €  
>> Pag. 376

1m  
**M007**

BROCA MANGO REBAJADO HSS  
HSS Reduced Shank Drill Bit  
Foret queue réduit HSS

Ref. 4995 - Nº Art. 71049: €  
>> Pag. 373

1m  
**M890**

BROCA-MARTILLO SDS PLUS  
SDS plus Rotary Hammer Drill Bit  
Foret percussion SDS plus

Ref. 4995 - Nº Art. 71056: €  
>> Pag. 374

33cm  
**M890**

BROCA-MARTILLO SDS PLUS  
SDS plus Rotary Hammer Drill Bit  
Foret percussion SDS plus

Ref. 4995 - Nº Art. 71059: €  
>> Pag. 374

33cm  
**1870**

CINCEL SDS PLUS  
SDS plus Chisel  
Burin SDS plus

Ref. 4995 - Nº Art. 71023: €  
>> Pag. 226

\* Sets no incluidos / Sets not included / Jeux non inclus **TOTAL:** €

**Set  
M013**

METAL  
Metal  
Métal

| Ø mm | mm | Nº Art. | € |
|------|----|---------|---|
| 2-8  | 6  | 25365   |   |

**Set  
M880**

PARED  
Masonry  
Maçonnerie

| Ø mm | mm | Nº Art. | € |
|------|----|---------|---|
| 4-10 | 5  | 30215   |   |

**Sets  
M640**

MADERA  
Wood  
Bois

| Ø mm | mm | Nº Art. | € |
|------|----|---------|---|
| 4-10 | 5  | 30223   |   |

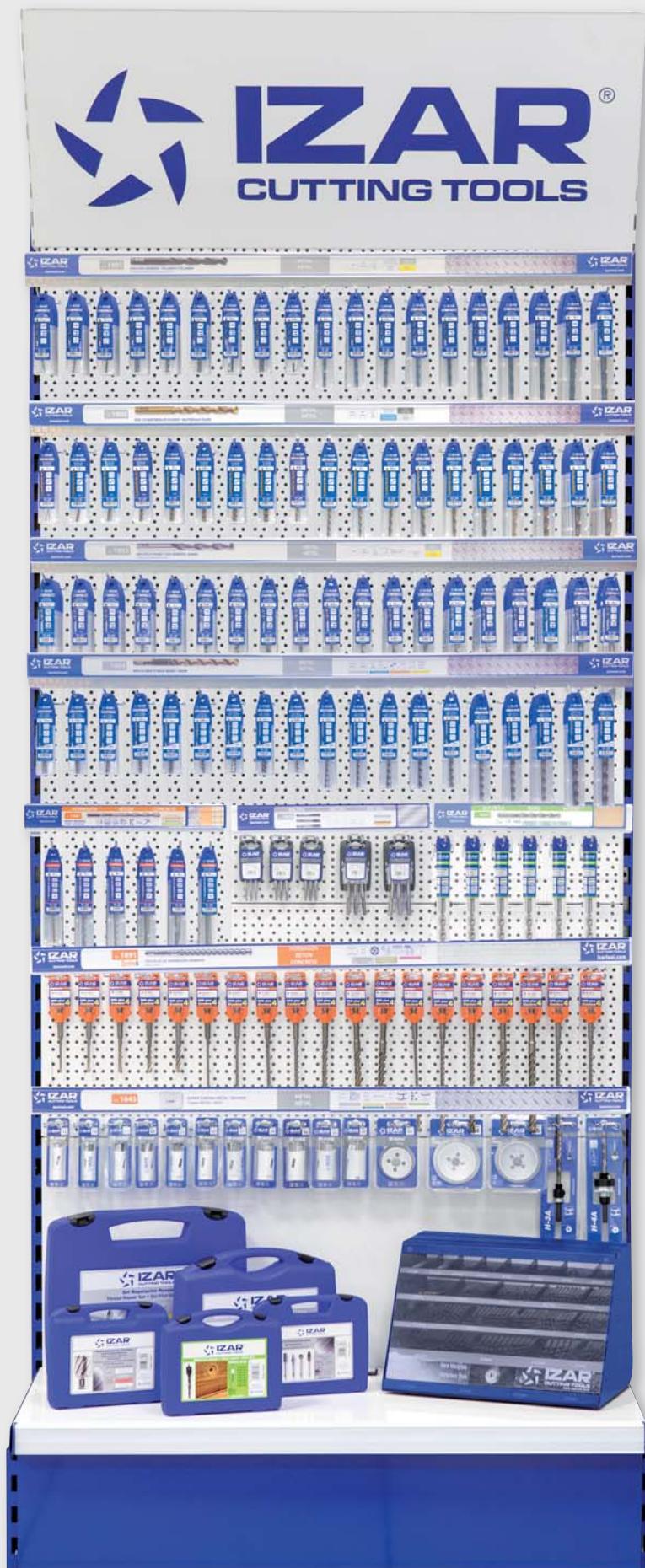
MADERA GRANDE  
Wood Big  
Bois large

| Ø mm | mm | Nº Art. | € |
|------|----|---------|---|
| 3-10 | 8  | 30226   |   |

# ¡NUEVA IMPLANTACIÓN LÍNEA!

## New Line Stock Offer!

### Nouveau implantation Ligne!



# ¡NUEVA IMPLANTACIÓN LÍNEA!

New Line Stock Offer!

Nouveau implantation Ligne!

1m  
**1001**

## BROCA MANGO CILÍNDRICO HSS

HSS Straight Shank Drill Bit  
Foret queue cylindrique HSS

Ref. 4995 - Nº Art. 70942: € >> Pag. 51

1m  
**1006**

## BROCA MANGO CILÍNDRICO COBALTO

Cobalt Straight Shank Drill Bit  
Foret queue cylindrique Cobalt

Ref. 4995 - Nº Art. 70936: € >> Pag. 27

1m  
**1002**

## BROCA MANGO CILÍNDRICO HSS SPEED POINT

Speed Point HSS Straight Shank Drill Bit  
Foret queue cylindrique HSS Speed Point

Ref. 4995 - Nº Art. 70947: € >> Pag. 61

1m  
**1004**

## BROCA UNIVERSAL COBALTO MULTI INOX

Multi-STAINLESS Cobalt Universal Drill Bit  
Foret universel Cobalt Multi INOX

Ref. 4995 - Nº Art. 70933: € >> Pag. 19

33cm  
**1881**

## BROCA UNIVERSAL

UNIVERSAL Drill Bit  
Foret UNIVERSEL

Ref. 4995 - Nº Art. 71034: € >> Pag. 242

33cm  
**3003**

## JUEGO MACHOS MANO MÉTRICA

Metric Hand Tap Set  
Jeu de tarauds à main métrique

Ref. 4995 - Nº Art. 70990: € >> Pag. 122

33cm  
**1641**

## BROCA PUNTA CENTRAR PRO

PRO Drill Bit  
Foret auto-centreur PRO

Ref. 4995 - Nº Art. 71044: € >> Pag. 268

1m  
**1891**

## BROCA-MARTILLO SDS PLUS 4Z

4Z Cutter SDS plus Rotary Hammer Drill Bit  
Foret percussion SDS plus 4Z

Ref. 4995 - Nº Art. 71015: € >> Pag. 211

1m  
**1645**

## SIERRA CORONA METAL / MADERA

METAL / WOOD Hole Saw  
Trépan MÉTAL / BOIS

Ref. 4995 - Nº Art. 71040: € >> Pag. 248

TOTAL: €

\* Maletines y Cabinet no incluídos  
Cases & Cabinet not included  
Mallettes et Présentoir non inclus

## ACCESORIOS LÍNEAS

Line Accessories

Accessoires ligne

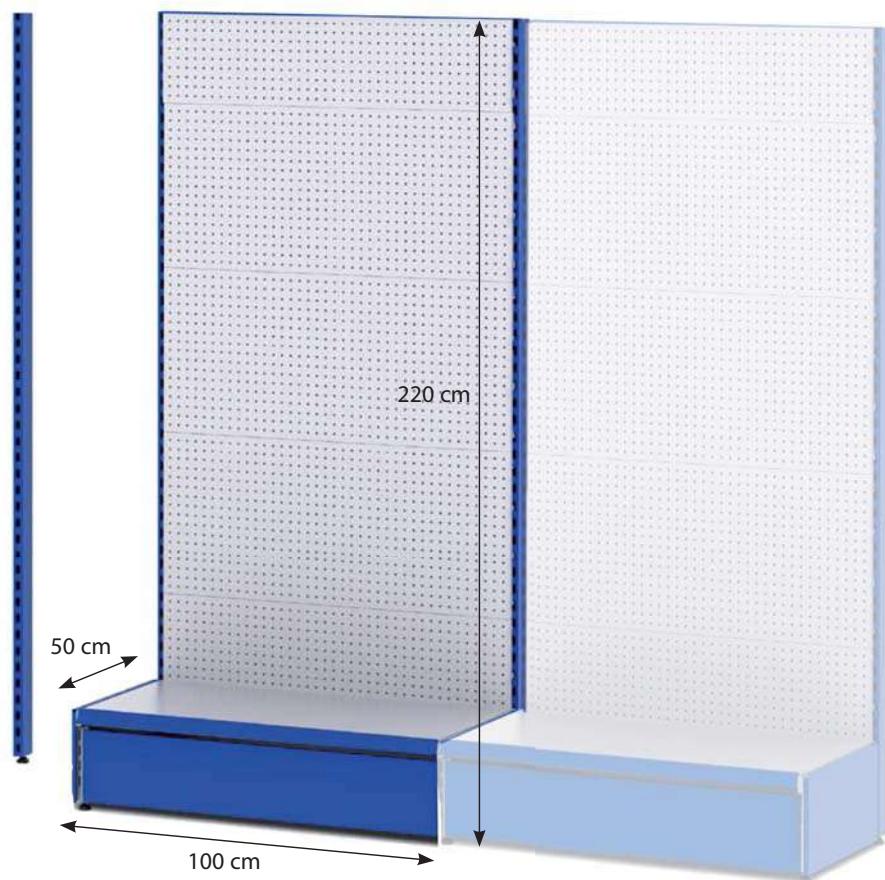


### Panel Inicial 1m

Initial Panel

Panneau initial

| Nº Art. | € |
|---------|---|
| 71120   |   |



### Panel Adicional 1m

Additional Panel

Panneau supplémentaire

| Nº Art. | € |
|---------|---|
| 71169   |   |

## ACCESORIOS LÍNEAS

Line Accessories

Accessoires ligne

### Copete Liso 1m

Straight Top

Panneau supérieur lisse



| Nº Art. | € |
|---------|---|
| 59996   |   |

### Copete Curvo 1m

Curve Top

Panneau supérieur courbe



| Mod.           | Nº Art. | € |
|----------------|---------|---|
| Standard       | 71112   |   |
| Standard + Led | 71113   |   |



### Cajonera zócalo 100x40

Drawer

Tiroir

| Nº Art. | € |
|---------|---|
| 71111   |   |



### Balda

Shelf

Étagère



### Balda-Cesta 30x30

Basket-Shelf

Étagère-Panier



### Balda-Podium 30x30

Podium-Shelf

Étagère-Podium

| Mod.      | Nº Art. | € |
|-----------|---------|---|
| 100x30 cm | 64056   |   |
| 100x40 cm | 64057   |   |

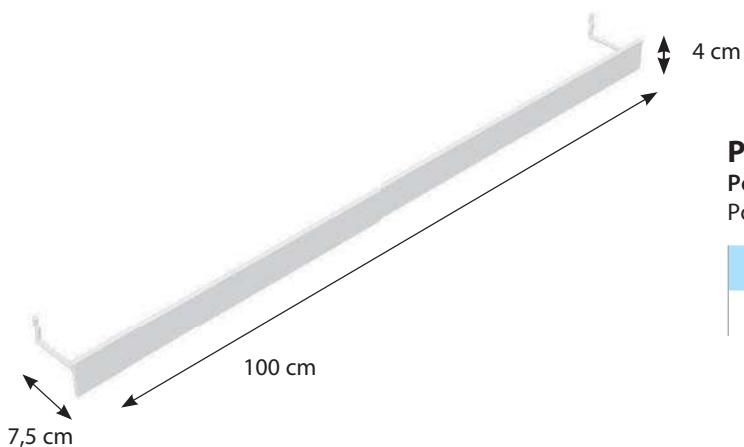
| Nº Art. | € |
|---------|---|
| 71124   |   |

| Nº Art. | € |
|---------|---|
| 71110   |   |

## ACCESORIOS LÍNEAS

Line Accessories

Accessoires ligne

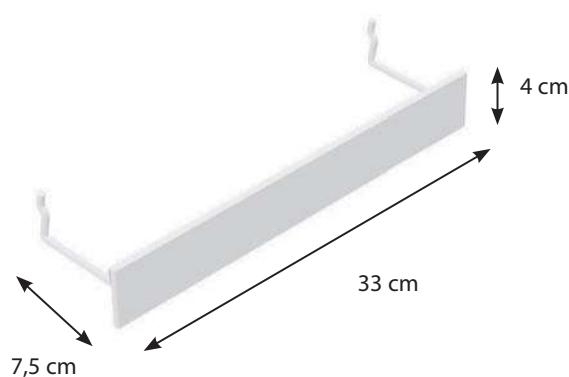


### Porta-Cartel 1m

Poster-Holder

Porte-Affiche

| Nº Art. | € |
|---------|---|
| 69760   |   |



### Porta-Cartel 33cm

Poster-Holder

Porte-Affiche

| Nº Art. | € |
|---------|---|
| 69781   |   |



### Gancho simple

Simple Hook

Crochet simple

| Mod.     | Nº Art. | € |
|----------|---------|---|
| 4x100 mm | 52956   |   |
| 4x150 mm | 57810   |   |



### Gancho doble

Double Hook

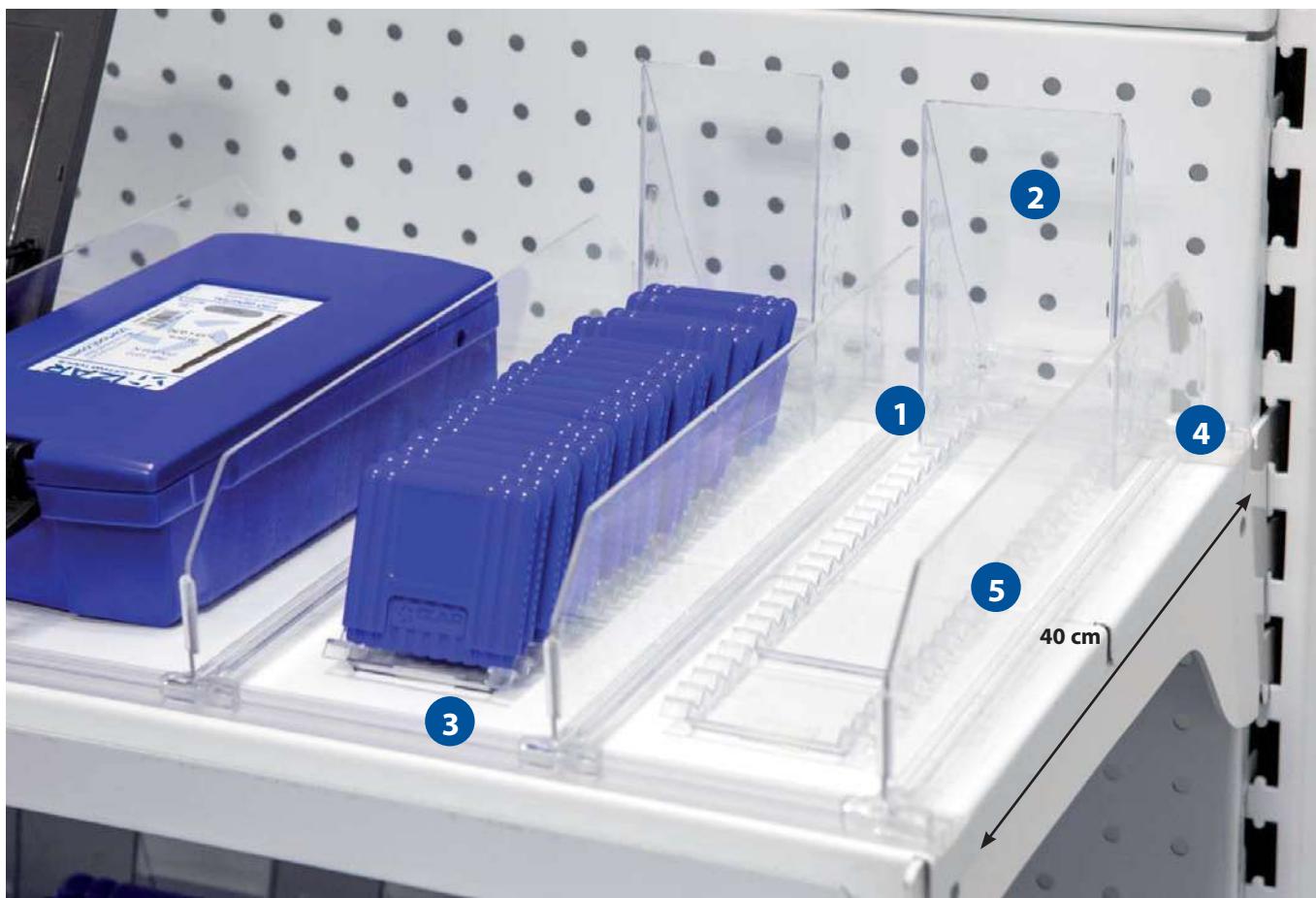
Crochet double

| Mod.     | Nº Art. | € |
|----------|---------|---|
| 4x150 mm | 52957   |   |

## ACCESORIOS LÍNEAS

Line Accessories

Accessoires ligne



### 1 Rail

Rail / Raille

| Nº Art. | € |
|---------|---|
| 72270   |   |

### 3 Tope frontal / Front block

Support adhésif frontal

| Nº Art. | € |
|---------|---|
| 71107   |   |

### 5 Divisor balda

Shelf divider / Diviseur étagère

| Nº Art. | € |
|---------|---|
| 71106   |   |

### 2 Empujador

Pusher / Pousser

| Nº Art. | € |
|---------|---|
| 71109   |   |

### 4 Tope trasero / Back block

Support adhésif arrière

| Nº Art. | € |
|---------|---|
| 71108   |   |

### 6 Cartón Fin Gancho

Hook End Carton / Carton fin crochet



|               | Nº Art. | € |
|---------------|---------|---|
| Plastic Pouch | 71118   |   |
| Doble Blister | 71119   |   |

## IMPLANTACIÓN DISPLAY 2 METROS

2 Metre Display Stock Offer

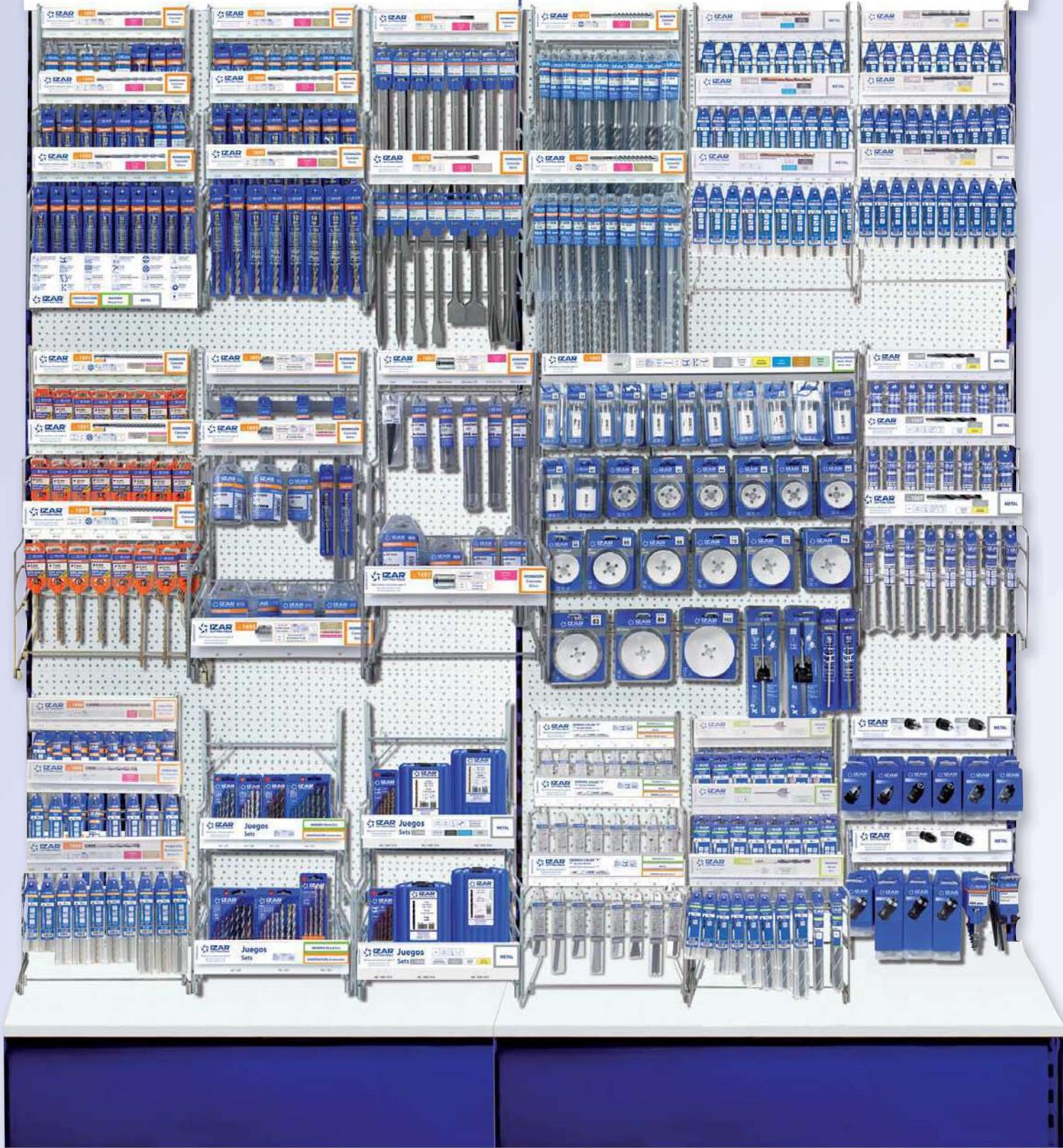
Offre implantation présentoir 2 mètres



**IZAR®**  
CUTTING TOOLS



**IZAR®**  
CUTTING TOOLS



## IMPLANTACIÓN DISPLAY 2 METROS

2 Metre Display Stock Offer  
Offre implantation présentoir 2 mètres

**Display  
01**

**BROCA-MARTILLO SDS PLUS 1**  
SDS plus Rotary Hammer Drill Bit 1  
Foret percussion SDS plus 1

Ref. 4995 - N° Art. 22182: €  
>> Pag. 215

**Display  
02**

**BROCA-MARTILLO SDS PLUS 2**  
SDS plus Rotary Hammer Drill Bit 2  
Foret percussion SDS plus 2

Ref. 4995 - N° Art. 22183: €  
>> Pag. 215

**Display  
03**

**BROCA-MARTILLO SDS MAX 4 PUNTAS**  
4-Cutter SDS max Rotary Hammer Drill Bit  
Foret percussion SDS max 4 pointes

Ref. 4995 - N° Art. 22315: €  
>> Pag. 221

**Display  
04**

**CINCELES SDS MAX / PLUS**  
SDS max / plus Chisels  
Burins SDS max / plus

Ref. 4995 - N° Art. 22289: €  
>> Pag. 228

**Display  
05**

**CORONA LIGERA PARED PROFESIONAL**  
Professional Concrete Light Hollow Core Bit  
Trépan béton professionnel

Ref. 4995 - N° Art. 22418: €  
>> Pag. 219

**Display  
06**

**CORONA PERFORADORA TALADRO PERCUTOR HORMIGÓN**  
Tapered Hollow Hammer Core Bit  
Trépan pour perceuses percussion lourds béton

Ref. 4995 - N° Art. 22463: €  
>> Pag. 223

**Display  
07**

**BROCA PUNTA METAL DURO PARED PROFESIONAL**  
Professional Concrete Carbide Tipped Drill Bit  
Foret pointe carbure béton professionnel

Ref. 4995 - N° Art. 22191: €  
>> Pag. 236

**Display  
10**

**BROCAS MADERA PALA Y 3 PUNTAS**  
Wood Drill Bits Flat & 3-Pointed  
Forets Bois mèches plates & 3-pointes

Ref. 4995 - N° Art. 22184: €  
>> Pag. 271

**Display  
12**

**PORTA-BROCAS TALADROS PORTÁTILES Y ESTACIONARIOS**  
Portable & Stationary Drilling Machine Drill-Chucks  
Mandrins perceuses portables & fixes

Ref. 4995 - N° Art. 22334: €  
>> Pag. 83

**Display  
13**

**BROCA MANGO CILÍNDRICO COBALTO**  
Cobalt Straight Shank Drill Bit  
Foret queue cylindrique Cobalt

Ref. 4995 - N° Art. 22181: €  
>> Pag. 27

**Display  
14**

**BROCA MANGO CILÍNDRICO HSS**  
HSS Straight Shank Drill Bit  
Foret queue cylindrique HSS

Ref. 4995 - N° Art. 22162: €  
>> Pag. 51

**Display  
18**

**BROCA MANGO REBAJADO HSS**  
HSS Reduced Shank Drill Bit  
Foret queue réduit HSS

Ref. 4995 - N° Art. 22352: €  
>> Pag. 65

**Display  
19**

**SIERRA CORONA METAL / MADERA**  
METAL / WOOD Hole Saw  
Trépan MÉTAL / BOIS

Ref. 4995 - N° Art. 22220: €  
>> Pag. 248

**Display  
20**

**SIERRAS CALAR INSERCIÓN "T"**  
"T" Insertion Jig Saw Blades  
Lames scies insertion "T"

Ref. 4995 - N° Art. 22391: €  
>> Pag. 356

**Display  
23**

**JUEGOS CASSETTE MADERA Y CONSTRUCCIÓN**  
Wood & Construction Cassette Sets  
Jeux cassette Bois & Construction

Ref. 4995 - N° Art. 22372: €  
>> Pag. 272

**Display  
24**

**SETS BROCAS MANGO CILINDRICO HSS + HSSE**  
HSS + HSSE Straight Shank Drill Bit Sets  
Jeux forets queue cylindrique HSS + HSSE

Ref. 4995 - N° Art. 22320: €  
>> Pag. 29

**Display  
61**

**BROCA-MARTILLO SDS PLUS 4Z**  
4Z Cutter SDS plus Rotary Hammer Drill Bit  
Foret percussion SDS plus 4Z

Ref. 4995 - N° Art. 29487: €  
>> Pag. 212

**TOTAL:** €

# IMPLANTACIÓN DISPLAY 1 METRO

1 Metre Display Stock Offer

Offre Implantation présentoir 1 metre



Display  
01

## BROCA-MARTILLO SDS PLUS 1

SDS plus Rotary Hammer Drill Bit 1

Foret percussion SDS plus 1

Ref. 4995 - N° Art. 22182: €

>> Pag. 215

Display  
02

## BROCA-MARTILLO SDS PLUS 2

SDS plus Rotary Hammer Drill Bit 2

Foret percussion SDS plus 2

Ref. 4995 - N° Art. 22183: €

>> Pag. 215

Display  
07

## BROCA PUNTA METAL DURO PARED PROFESIONAL

Professional Concrete Carbide Tipped Drill Bit

Foret pointe carbure béton professionnel

Ref. 4995 - N° Art. 22191: €

>> Pag. 236

Display  
10

## BROCAS MADERA PALA Y 3 PUNTAS

Wood Drill Bits Flat & 3-Pointed

Forets bois mèches plates & 3-pointes

Ref. 4995 - N° Art. 22184: €

>> Pag. 271

Display  
13

## BROCA MANGO CILÍNDRICO COBALTO

Cobalt Straight Shank Drill Bit

Foret queue cylindrique Cobalt

Ref. 4995 - N° Art. 22181: €

>> Pag. 27

Display  
14

## BROCA MANGO CILÍNDRICO HSS

HSS Straight Shank Drill Bit

Foret queue cylindrique HSS

Ref. 4995 - N° Art. 22162: €

>> Pag. 51

Display  
19

## SIERRA CORONA METAL / MADERA

METAL / WOOD Hole Saw

Trépan MÉTAL / BOIS

Ref. 4995 - N° Art. 22220: €

>> Pag. 248

Display  
23

## JUEGOS CASSETTE MADERA Y CONSTRUCCIÓN

Wood & Construction Cassette Sets

Jeux cassette Bois & Construction

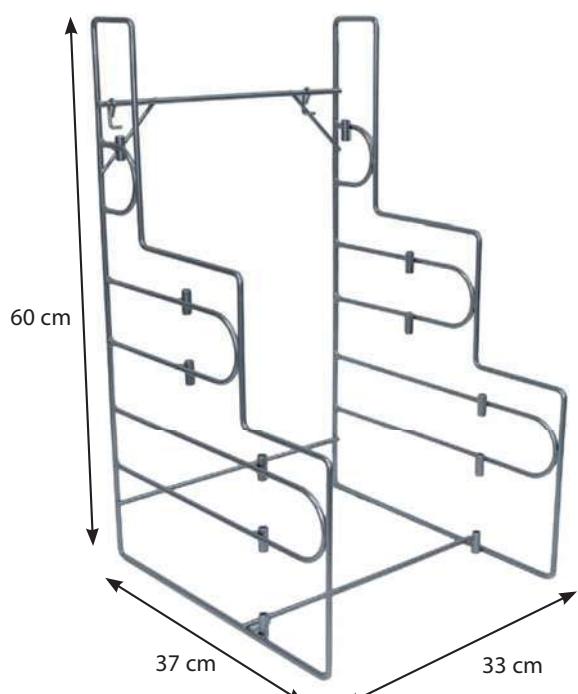
Ref. 4995 - N° Art. 22372: €

>> Pag. 272

TOTAL: €

## ACCESORIOS DISPLAYS

Display Accessories  
Accessoires présentoir



**Display-Cascada**  
Cascade-Display  
Display-Cascade

| Nº Art. | € |
|---------|---|
| 20182   |   |



**Cabezal**  
Header  
Tête

| Nº Art. | € |
|---------|---|
| 22651   |   |



**Display-Línea**  
Line-Display  
Display-Ligne

| Nº Art. | € |
|---------|---|
| 22650   |   |



**Gancho-08**  
Hook-08  
Crochet-08

| Nº Art. | € |
|---------|---|
| 51837   |   |



**Gancho-10**  
Hook-10  
Crochet-10

| Nº Art. | € |
|---------|---|
| 51840   |   |



**Gancho-06-Doble**  
Hook-06-Double  
Crochet-06-Double

| Nº Art. | € |
|---------|---|
| 22653   |   |



**Gancho-08-Doble**  
Hook-08-Double  
Crochet-08-Double

| Nº Art. | € |
|---------|---|
| 33241   |   |

# SISTEMA DE EXPOSITORES APIABLES

Stacking Exhibitors System

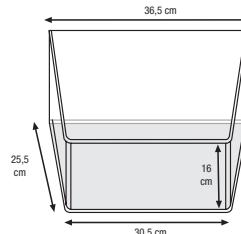
Système présentoirs empilables

Expo  
1602 1.

## EXPOSITOR BROCAS ESCALONADAS

Step Drill Display

Présentoirs forets étagés



15 Pcs

Nº Art.  
65184

€

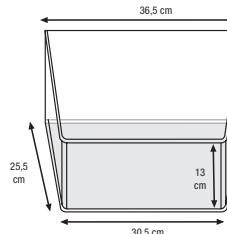
| Cap. mm | Nº Art. | Uds. |
|---------|---------|------|
| 4-12    | 12048   | 2    |
| 4-20    | 12054   | 2    |
| 6-30    | 12060   | 2    |
| 9-36    | 12066   | 2    |
| 12-20   | 56798   | 2    |
| 20-30   | 56799   | 2    |
| 30-40   | 60715   | 1    |
| 40-50   | 60716   | 1    |
| 50-60   | 60717   | 1    |

Expo  
9200 2.

## EXPOSITOR FREAS ROTATIVAS

Rotary Burr Display

Présentoirs fraises limes rotatives carbure



48 Pcs

Nº Art.  
57079

€

| Ref. | Diam. mm    | Nº Art. | Uds. |
|------|-------------|---------|------|
| 9260 | 06,00X06,00 | 44141   | 2    |
|      | 08,00X06,00 | 44142   | 2    |
|      | 09,60X06,00 | 44143   | 2    |
|      | 12,70X06,00 | 44144   | 2    |
| 9251 | 06,00X06,00 | 44438   | 2    |
|      | 08,00X06,00 | 44439   | 2    |
|      | 09,60X06,00 | 44440   | 2    |
|      | 12,70X06,00 | 44441   | 2    |
| 9254 | 06,00X06,00 | 44488   | 2    |
|      | 08,00X06,00 | 44494   | 2    |
|      | 09,60X06,00 | 44500   | 2    |
|      | 12,70X06,00 | 44512   | 2    |
| 9258 | 06,00X06,00 | 44721   | 2    |
|      | 08,00X06,00 | 44722   | 2    |
|      | 09,60X06,00 | 44723   | 2    |
|      | 12,70X06,00 | 44724   | 2    |
| 9267 | 06,00X06,00 | 44792   | 2    |
|      | 08,00X06,00 | 44793   | 2    |
|      | 10,00X06,00 | 44794   | 2    |
|      | 12,70X06,00 | 44795   | 2    |
| 9268 | 06,00X06,00 | 44808   | 2    |
|      | 08,00X06,00 | 44809   | 2    |
|      | 09,60X06,00 | 44811   | 2    |
|      | 12,70X06,00 | 44814   | 2    |

Expo  
1667 3.

## EXPOSITOR CORONAS REAFILABLES HSS

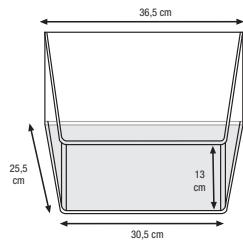
HSS Resharpenable Hole Saw Exhibitor

Présentoir fraises à trépaner HSS

31 Pcs

Nº Art.  
66804

€



| Diam. | Nº Art. | Uds. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12    | 56569   | 1    | 20    | 56154   | 1    | 28    | 56587   | 1    | 39    | 56594   | 1    |
| 13    | 56570   | 1    | 21    | 56582   | 1    | 29    | 56588   | 1    | 40    | 56161   | 1    |
| 14    | 56572   | 1    | 22    | 56155   | 1    | 30    | 56158   | 1    | 42    | 56596   | 1    |
| 15    | 56573   | 1    | 23    | 56583   | 1    | 32    | 56159   | 1    | 45    | 56597   | 1    |
| 16    | 56152   | 1    | 24    | 56584   | 1    | 33    | 56590   | 1    | 48    | 56163   | 1    |
| 17    | 56576   | 1    | 25    | 56156   | 1    | 35    | 56160   | 1    | 50    | 56164   | 1    |
| 18    | 56578   | 1    | 26    | 56585   | 1    | 36    | 56591   | 1    | 65    | 56602   | 1    |
| 19    | 56579   | 1    | 27    | 56157   | 1    | 38    | 56593   | 1    |       |         |      |

# CONDICIONES GENERALES VENTA

General Selling Conditions

Conditions générales de vente en France

## 1. VENCIMIENTOS FIJOS

En caso de fechas fijas de pago que rebasen los plazos estipulados giraremos a la fecha fijada pero inmediata anterior, según corresponda, siendo el plazo máximo en todo caso de 60 días, fecha factura o envío.

## 2. SEGURO

Las mercancías viajarán por exclusiva cuenta y riesgo del comprador, siendo siempre a cargo del mismo la prima del seguro que se realice, en los casos que el cliente deseé asegurarla.

## 3. RECLAMACIONES

Se atenderán aquellas reclamaciones que se planteen dentro de los 8 días siguientes a la recepción del material no aceptando ninguna devolución sin el previo conocimiento de IZAR Cutting Tools S.A.L.

## 4. DEVOLUCIONES

Sólo se aceptarán las devoluciones por defecto de fabricación o error atribuible a IZAR. No se aceptarán devoluciones sin previa autorización de IZAR o de nuestro delegado o representante. Las devoluciones serán a portes pagados e irán acompañadas de la factura original. No se admitirán devoluciones procedentes de promociones ni en estuches defectuosos. Toda devolución originará una nota de cargo del 20% de su valor en concepto de manipulación e inspección de control de calidad.

## 5. CONDICIONALIDAD

La aceptación de las mercancías sin el rechazo inmediato por parte del comprador supone la aprobación de estas condiciones generales de venta y su modificación solamente tendrá validez si consta por escrito la conformidad de IZAR.

## 6. I.V.A.

Los precios están sujetos al Impuesto sobre el Valor Añadido, siendo a cargo del cliente el recargo correspondiente.

## 7. GARANTÍAS

Todas las herramientas están garantizadas contra cualquier defecto de fabricación y materiales, sin responsabilizarse IZAR de su utilización inadecuada. En todo caso, nuestra responsabilidad estará limitada al valor de la herramienta suministrada. Nos reservamos el derecho de modificar, sin previo aviso, las dimensiones, calidades del acero y, en general, todas las características técnicas de las herramientas. No será

## 1. ECHEANCES

Quelle que soit la date fixée pour le paiement des factures, celui-ci doit être effectué au maximum 30 jours après l'envoi ou la date de facture.

## 2. ASSURANCE

Le risque lié à l'envoi des marchandises est assumé exclusivement par l'acheteur, toute latitude lui étant laissée s'il désire les assurer.

## 3. RECLAMATIONS

Seront prises en compte les réclamations portées à la connaissance d'IZAR Cutting Tools S.A.L. dans un délai de 8 jours suivant la réception des marchandises. Aucun retour ne sera accepté si cette condition préliminaire n'est pas satisfaite.

## 4. RETOURS

Seront acceptés les retours de marchandises pour défaut de fabrication ou erreur imputable à IZAR. Ne sera accepté aucun retour de marchandises sans accord préalable de notre part ou de notre représentant.

Les retours s'effectueront port payé et seront accompagnés de la facture originale. En aucun cas ne seront acceptés les retours de marchandises liées à des promotions ou en emballages défectueux. Les avoirs seront minorés de 20% de la valeur de la marchandise pour manipulation et inspection du contrôle de qualité.

## 5. CONDITIONNALITÉ

L'acceptation des marchandises de la part de l'acheteur implique l'acceptation de ces conditions générales de vente et leur modification ne sera valable qu'après approbation écrite de la part d'IZAR.

## 6. T.V.A.

Les prix ne sont pas assujettis à la Taxe sur la Valeur Ajoutée.

## 7. GARANTIES

Tous les outils sont garantis contre les défauts de fabrication, IZAR ne pouvant en aucun cas être rendu responsable en cas d'utilisation

sustituida ninguna herramienta sin el informe previo de nuestro Dpto. de Control de Calidad.

## 8. PORTES

Se suministrarán con franquicia de portes todos aquellos envíos cuyo valor neto de factura supere los 180 € netos por cada envío en territorio peninsular e Islas Baleares; 300 € en Canarias, Ceuta, Melilla y Andorra. En cualquier caso IZAR se reserva el derecho de utilizar el medio de envío más económico. En las capitales donde IZAR tenga establecidos depósitos de distribución, esta cláusula se aplicará para las reexpediciones a otras poblaciones de la provincia.

## 9. IMPORTE MÍNIMO POR PEDIDO

Queda establecido como pedido mínimo la cantidad de 60 € netos. Los pedidos inferiores se cobrarán al contado o por reembolso.

## 10. RESERVA DE DOMINIO

Nuestras ventas se consideran siempre bajo la condición de Reserva de dominio según el artículo 1.506 C.C. hasta que se haya hecho efectivo íntegramente el pago de todo lo adeudado.

## 11. JURISDICCIÓN COMPETENTE

Para cualquier discrepancia acerca de la interpretación de estas condiciones o litigio por razón de incumplimiento por cualquiera de las partes se someten ambas al fuero de los Juzgados y Tribunales de Bilbao, con renuncia al que pudiera corresponderles.

## 12. NOTA IMPORTANTE SOBRE DISPLAYS MODULARES

Los Displays Modulares son propiedad de IZAR y la cesión sin costo para su uso a nuestros clientes se hace bajo las siguientes condiciones:

- Pedido inicial del Programa Completo.
- Uso único y exclusivo para los productos suministrados por IZAR.
- Ejercicio de un mantenimiento razonable que evite daños al Display.

El sistema de Displays modulares está patentado por IZAR. La infracción de dicha patente dará lugar a las acciones legales pertinentes.

inadéquate de ceux-ci. En tout état de cause, notre responsabilité se limitera à la valeur de l'outil fourni. Nous nous réservons le droit de modifier, sans information préalable, les dimensions, qualités d'acier et en général toutes les caractéristiques techniques des outils. Aucun outil ne sera remplacé sans l'avis préalable de notre département de contrôle de qualité.

## 8. PORTS

Seront expédiées en franco de port en France Métropolitaine toutes les commandes dont le montant net dépasse les 300 €. IZAR se réserve le droit d'utiliser le moyen de transport le plus économique.

## 9. MONTANT MINIMUM DES COMMANDES

Le montant minimum des commandes est de 60 € nets.

## 10. RESERVE DE PROPRIETE

IZAR conserve tous les droits de propriété sur ses ventes jusqu'au paiement intégral des sommes dues.

## 11. JURIDITION COMPETENTE

Tout litige relatif à l'interprétation de ces conditions ou au manquement de l'une des parties à ses obligations est de la compétence du Tribunal de Commerce de Bilbao.

## 12. NOTE IMPORTANTE SUR LES PRESENTOIRES MODULAIRES

Les présentoirs modulaires sont propriété d'IZAR et leur cession sans coût à nos clients pour leur utilisation se fait sous les conditions suivantes:

- Commande initiale du programme complet.
- Utilisation exclusive de produits fournis par IZAR.
- Entretien raisonnable qui évite les dommages au présentoir.

Le système de présentoirs modulaires est breveté par IZAR. Le non-respect dudit brevet donnera lieu aux actions légales nécessaires.

# ÍNDICE SÍMBOLOS

Symbol Index  
Index de symboles

|  |                                                                                                    |  |                                                                                                  |  |                                                                           |
|--|----------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------|
|  | <b>Ángulo Punta</b><br>Point Angle<br>Angle de pointe                                              |  | <b>Espesor Material</b><br>Material Thickness<br>Épaisseur materiel                              |  | <b>Corte a Izquierda</b><br>Left hand Cutting<br>Coupe à gauche           |
|  | <b>Ángulo de Hélice</b><br>Helix Angle<br>Angle d'hélice                                           |  | <b>Espesor Tubo</b><br>Pipe Thickness<br>Épaisseur tuyau                                         |  | <b>Magnético</b><br>Magnetic<br>Magnétique                                |
|  | <b>Afilado en Cruz Tipo DIN 1412 "C"</b><br>Split Point<br>DIN 1412 "C" type                       |  | <b>Agujero Pasante</b><br>Through Hole<br>Trou débouchant                                        |  | <b>Cabezal Zentro4</b><br>Zentro4 head<br>Tête Zentro4                    |
|  | <b>Affûtage en croix type DIN 1412 "C"</b><br>Affûtage en croix type DIN 1412 "C"                  |  | <b>Agujero Ciego</b><br>Blind Hole<br>Trou borgne                                                |  | <b>Hormigón Reforzado</b><br>Reinforced Concrete<br>Béton armé            |
|  | <b>Punta Central</b><br>DIN 1412 E<br>Center Point<br>DIN 1412 E<br>Pointe à Centrer<br>DIN 1412 E |  | <b>Agujero Ciego</b><br>Blind Hole<br>Trou borgne                                                |  | <b>Hormigón</b><br>Concrete<br>Béton                                      |
|  | <b>Mango 3 Planos</b><br>3-Flat Shank<br>Attachement 3 plans                                       |  | <b>Rosca Standard</b><br>Standard Thread<br>Filetage standard                                    |  | <b>Hormigón Bloque</b><br>Concrete Block<br>Parpaing                      |
|  | <b>Taladro Portátil</b><br>Portable Drilling Machine<br>Perceuse à main                            |  | <b>Rosca de tubo cilíndrica</b><br>Straight Pipe Thread<br>Filetage tubes cylindriques           |  | <b>Ladrillo</b><br>Brick<br>Brique                                        |
|  | <b>Mango Rebajado</b><br>Reduced Shank<br>Queue reduit                                             |  | <b>Rosca Whitworth cilíndrica</b><br>Straight Whitworth Thread<br>Filetage Whitworth cylindrique |  | <b>Cabezal 4 Puntas</b><br>4-Cutter Head<br>Tête 4 pointes                |
|  | <b>Punta Metal Duro</b><br>Carbide Tipped<br>Pointe carbure                                        |  | <b>Plástico</b><br>Plastic<br>Plastique                                                          |  | <b>Punta MD Afilada</b><br>Carbide Split Point<br>Affûtage pointe carbure |
|  | <b>Afilado Universal</b><br>Universal Point<br>Affûtage universel                                  |  | <b>Angulo Avellanado</b><br>Countersink Angle<br>Angle de fraisage                               |  | <b>Porcelánico</b><br>Porcelain<br>Porcelaine                             |
|  | <b>Sin Percusión</b><br>No Percussion<br>Sans percussion                                           |  | <b>Angulo Avellanado</b><br>Countersink Angle<br>Angle de fraisage                               |  | <b>Refrigeración Agua</b><br>Water Cooling<br>Refrigeration eau           |
|  | <b>Percusión</b><br>Percussion<br>Percussion                                                       |  | <b>Entrada Macho</b><br>Tap Point<br>Entrée de taraud                                            |  | <b>R.P.M.</b><br>R.P.M.<br>R.P.M.                                         |
|  | <b>Angulo Broca Escalonada</b><br>Step Drill Angle<br>Angle de foret etagé                         |  | <b>Angulo de Hélice</b><br>Helix Angle<br>Angle d'hélice                                         |  | <b>Herramienta Diamante</b><br>Diamond Tool<br>Outil diamant              |
|  | <b>Conicidad</b><br>Taper<br>Conicité                                                              |  | <b>Entrada GUN</b><br>GUN Chamfer<br>Entrée GUN                                                  |  | <b>Amoladora</b><br>Disc Grinder<br>Meuleuse                              |
|  | <b>Puntos Soldadura</b><br>Welding Point<br>Points soudure                                         |  | <b>Corte al Centro</b><br>Center Cutting<br>Coupe au centre                                      |  | <b>Cerámica</b><br>Ceramics<br>Céramique                                  |
|  |                                                                                                    |  | <b>Sin Corte al Centro</b><br>Non Center Cutting<br>Sans coupe au centre                         |  | <b>Madera</b><br>Wood<br>Bois                                             |
|  |                                                                                                    |  |                                                                                                  |  | <b>Vidrio</b><br>Glass<br>Verre                                           |

# ÍNDICE SÍMBOLOS

Symbol Index

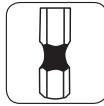
Index de symboles



**Metal**  
Metal  
Métal



**Máquina Perforadora**  
Core Drilling Machine  
Carotteuse électrique



**Inserción Rápida 1/4**  
Quick Shank 1/4  
Attache rapide 1/4



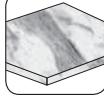
**Bujía**  
Spark Plug  
Bougie



**Abrasivos**  
Abrasives  
Abrasifs



**Pulido**  
Sanding  
Poncer



**Mármol**  
Marble  
Marbre



**Perfil Parabólico "S"**  
S Parabolic Profile  
Profil parabolique S



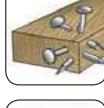
**Madera Blanda**  
Soft Wood  
Bois tendre



**Madera Dura**  
Hard Wood  
Bois dur



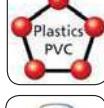
**Contrachapado**  
Plywood  
Contreplaqué



**Madera+Clavos**  
Wood+Nails  
Bois+Clous



**Metal**  
Metal  
Métal



**Plástico**  
Plastics  
Plastique



**Cristal**  
Glass  
Verre



**Válido Mango Multi-Función**  
Multi-Tool  
Multifonction



**Fibra Vidrio**  
Fibreglass  
Fibre verre



**Pladur**  
Drywall  
Plâtre



**No ferrosos**  
Non-ferrous  
Non ferreux



**Perfiles**  
Profiles  
Profils



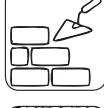
**Parquet-Laminados**  
Laminated-Parquet  
Parquét-laminés



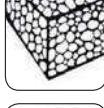
**GFK**



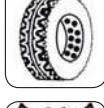
**Cerámica**  
Ceramics  
Céramique



**Grout-Mortero**  
Grout-Mortar  
Coulies-Mortier



**Aislamiento**  
Isolating  
Isolant



**Caucho**  
Rubber  
Caoutchouc



**Cuero**  
Leather  
Cuir

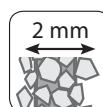


**Restos blandos (pegamento, moqueta, silicona...)**  
Soft remains (glue, carpet, silicone...)

Restes tendres (colle, moquette, silicone...)



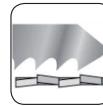
**Distancia entre Dientes**  
Distance among Teeth  
Distance entre les dents



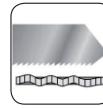
**Espesor Dentado**  
Teeth Thickness  
Épaisseur denture



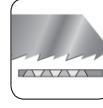
**Tipo Dentado**  
Teeth Type  
Type denture



**Dentado Alterno Basto**  
Rough Side Teeth  
Denture avoyée gros



**Dentado Ondulado Fino**  
Fine Wavy Teeth  
Denture ondulé fin



**Dentado Rectificado Cónico**  
Conically Ground Teeth  
Denture conique dépouillée



**Dentado Alterno Diagonal**  
Diagonally Side Teeth  
Denture avoyée diagonale



**Punta Atornillar HEX**  
HEX Screwdriver Bit  
Embout vissage HEX



**Punta Atornillar PH**  
PH Screwdriver Bit  
Embout vissage PH



**Punta Atornillar PZ**  
PZ Screwdriver Bit  
Embout vissage PZ



**Punta Atornillar SL**  
SL Screwdriver Bit  
Embout vissage SL



**Punta Atornillar Tx**  
Tx Screwdriver Bit  
Embout vissage Tx



**Punta Atornillar Ts**  
Ts Screwdriver Bit  
Embout vissage Ts



**P. Atornillar SQUARE ROBERTSON**  
SQUARE ROBERTSON Screwdriver Bit  
Embout vissage SQUARE ROBERTSON



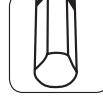
**Punta Atornillar TRIWING**  
TRIWING Screwdriver Bit  
Embout vissage TRIWING



**Punta Atornillar XZN**  
XZN Screwdriver Bit  
Embout vissage XZN



**Entrada Hexagonal**  
HEX Input  
Entrée hexagonale



**Mango 3 Planos**  
3-Flat Shank  
Attachement 3 plans

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| 1009 | 75        | 1489 | 213      | 1673 | 288     | 1881 | 242  | 3020 | 126      | 4074 | 104    |
| 1010 | 45        | 1490 | 75       | 1674 | 286     | 1882 | 230  | 3023 | 131      | 4075 | 97/110 |
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| 1020 | 31        |      |          | 1681 | 288     | 1891 | 210  | 3037 | 125      |      |        |
| 1021 | 16        |      |          | 1682 | 289     | 1892 | 220  | 3040 | 132      | 4223 | 187    |
| 1025 | 67        | 1500 | 368      | 1684 | 285     | 1894 | 222  |      |          | 4228 | 189    |
| 1027 | 37        | 1510 | 365      | 1686 | 289     | 1899 | 218  | 3100 | 136      | 4229 | 191    |
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| 1090 | 75        | 1527 | 365      | 1697 | 223     | 1930 | 352  | 3181 | 156      | 7001 | 295    |
|      |           | 1529 | 366      | 1698 | 223     | 1940 | 338  | 3184 | 156      | 7002 | 294    |
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| 1110 | 76        | 1605 | 95       | 1804 | 80      | 1996 | 192  | 3217 | 142      | 8302 | 202    |
|      |           | 1606 | 95       | 1806 | 80      | 1997 | 192  | 3247 | 146      | 8303 | 202    |
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| 1438 | 273       | 1621 | 282      | 1853 | 260     | 2900 | 316  | 3404 | 157      | 8330 | 206    |
|      |           | 1625 | 292      | 1854 | 259     | 2910 | 305  | 3405 | 157      | 8331 | 266    |
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|      | 44-52-55- | 1637 | 284      | 1857 | 261     | 2940 | 301  | 3407 | 367      | 8341 | 206    |
| 1459 | 21-28-36- | 1639 | 283      | 1863 | 259     | 2950 | 318  | 3409 | 155      | 8342 | 207    |
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