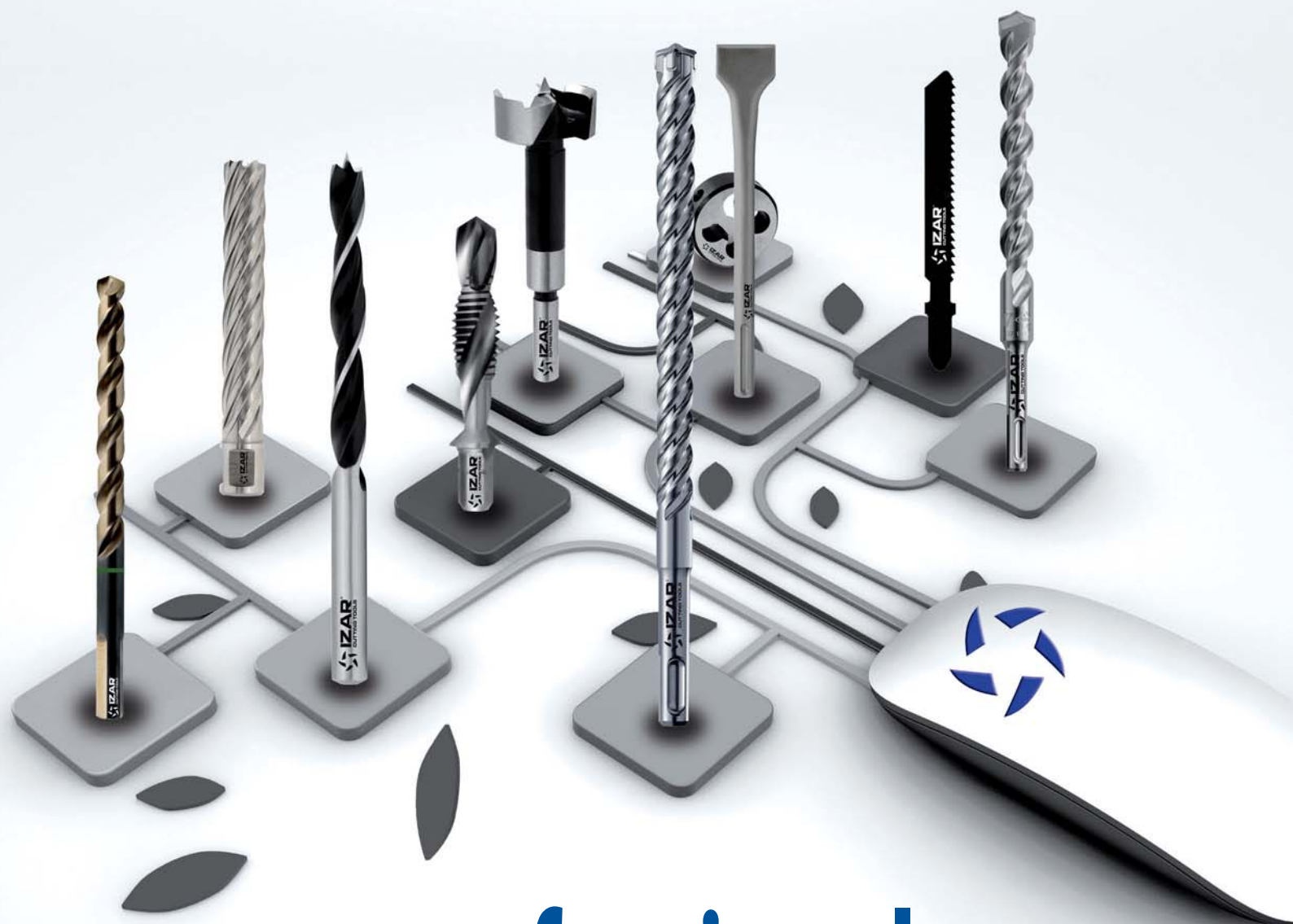




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## ENFOCADOS HACIA EL CLIENTE

Customer focus

Orientés vers le client

**Carlos Pujana**

**DIRECTOR GERENTE**

Managing Director

Directeur Gérant

izar@izartool.com

Amorebieta 17.02.2014

### Estimados clientes, amigos y colaboradores,

Tengo la enorme satisfacción de poner en sus manos el nuevo catálogo profesional 2014, que incluye importantes novedades.

En primer lugar, hemos llevado a cabo un cambio de imagen total, tanto en el propio diseño del catálogo, como en los estuchados, para transmitir de forma clara y directa, la calidad de las herramientas que ponemos en sus manos.

Porque fabricamos soluciones para aquellos que viven del trabajo que desarrollan con sus propias manos y con nuestras herramientas y, saben bien, que de su rendimiento depende el resultado de su propia actividad.

Este nuevo catálogo, recupera la función de catálogo / tarifa. A pesar de ello, no plantea incrementos de precios y si ajustes a la baja en algunas referencias concretas.

Por otra parte, incluimos más de 1.000 artículos nuevos, que reflejan nuestra apuesta por la innovación y por la escucha activa, porque la opinión de nuestros clientes nos importa.

Hoy, todos parecen haber entendido la importancia de la industria en la generación y el mantenimiento del bienestar de un país. Nosotros siempre hemos defendido su importancia y por ello, seguimos:

**"Comprometidos con la fabricación y con el empleo"**

### Dear customers, friends and business partners,

It's a great pleasure for me to introduce to you our new Professional catalogue 2014, that includes important changes.

First, we've totally changed the image, both in the catalogue design as well as in packaging design, in order to send a clear and direct message about the quality of the tools we put in your hands.

Since we manufacture solutions for those who live from their own work using cutting tools, we all know well, their success depends on the performance of the tools they use.

This new catalogue gets back to the catalogue / price list role. It does not present any price increase but, on the contrary, reductions in a significant number of references.

On the other hand, more than 1.000 new articles are included, reflecting our commitment to innovation and active listening, because we care about our customers opinion.

Today, everybody seems to have understood the importance of industry in generating and maintaining high quality living standards. We always have defended this view, so we keep:

**"Committed to manufacturing and jobs"**

### Chers clients, amis et collaborateurs,

J'ai l'énorme plaisir de vous présenter le nouveau catalogue professionnel 2014, où vous trouverez des nouveautés importantes.

Dans un premier terme, on a changé totalement l'image dans le dessin et création du catalogue et dans tous les emballages pour transmettre d'une façon nette et directe la qualité de nos outils de coupe qu'on met dans vos mains.

Parce qu'on fabrique des solutions pour ceux qui vivent du travail qui font avec leur mains et avec nos outils et savent bien que le rendement et performance de ceux ci conditionne le résultat de sa propre activité.

Dans ce nouveau exemplaire on retourne au catalogue / tarif. Malgré tout ça on maintient les prix et mêmes dans certaines références on les baisse.

D'une autre part, on rajoute dans cette nouvelle éditions 1000 articles nouveaux, image de notre désir innovateur et pour l'écoute au marché car nos clients et leurs opinions c'est très important pour nous.

Aujourd'hui tout le monde est conscient de l'importance de l'industrie pour notre génération et le maintien du mode de vie et du bien être d'un pays. On est toujours dans cette ligne :

**"Engagés dans la fabrication et l'emploi"**





## Valores IZAR

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

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- Honesty
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- Interest for technology and innovation
- Adaptation to change
- Team-work
- Simplicity over complexity
- Customer focus

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- L'engagement pour le travail bien fait
- L'intérêt pour la technologie et l'innovation
- L'adaptation au changement
- Le travail en équipe
- La simplicité sur la complexité
- L'orientation client

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skill performance  
commitment quality innovation  
improvement interest reliability  
technology pride development sustainability  
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## METAL

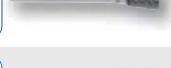
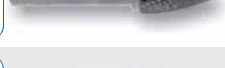
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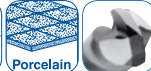
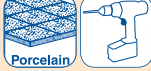
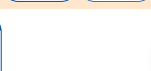
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| Ref. 1681 | MD/HM     |    | 172  | Ref. 1682 | MD/HM |    | 172  |
| Ref. 1684 | MD/HM     |    | 172  | Ref. 1639 | HSS   |    | 173  |
| Ref. 1615 | Diente MD |    | 174  | Ref. 1620 | HSS   |    | 174  |
| Ref. 1625 |           |   | 174  | Ref. 7009 | MD/HM |   | 175  |
| Ref. 7002 | HSS       |  | 175  | Ref. 7003 | HSS   |  | 176  |
| Ref. 7001 | HSS       |  | 176  |           |       |                                                                                       |      |

## MANGO HEXAGONAL HEX Shank Tools Outils Queue Hexagonal

|           |         |                                                                                     |     |           |         |          |                                                                                       |     |
|-----------|---------|-------------------------------------------------------------------------------------|-----|-----------|---------|----------|---------------------------------------------------------------------------------------|-----|
| Ref. 1611 | HSS     |  | 178 | Ref. 1610 | HSS     | DIN 3126 |  | 178 |
| Ref. 1601 | MD/HM   | TCT                                                                                 | 179 | Ref. 1621 | CrV     |          |  | 179 |
| Ref. 1520 | Std.    | DIN 3126                                                                            | 180 | Ref. 1521 | Torsión | DIN 3126 |  | 182 |
| Ref. 1522 | ISO TIN | DIN 3126                                                                            | 183 |           |         |          |                                                                                       |     |

## SIERRAS Saw Blades Lames Scies

|           |       |               |                                                                                     |     |           |       |               |                                                                                       |     |
|-----------|-------|---------------|-------------------------------------------------------------------------------------|-----|-----------|-------|---------------|---------------------------------------------------------------------------------------|-----|
| Ref. 1940 | Calar | Inserción "T" |  | 188 | Ref. 1910 | Calar | Inserción "T" |  | 193 |
| Ref. 1930 | Calar | Inserción "T" | Especial                                                                            | 196 | Ref. 1945 | Calar | Inserción "U" |  | 197 |
| Ref. 1915 | Calar | Inserción "U" |  | 199 | Ref. 1935 | Calar | Inserción "U" | Especial                                                                              | 200 |
| Ref. 1950 | Sable |               |  | 201 | Ref. 1920 | Sable |               |  | 202 |
| Ref. 1960 | Sable |               | Especial                                                                            | 203 |           |       |               |                                                                                       |     |



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**Calidad fabricada aquí**  
*para endulzar tu trabajo*

**Quality made in Europe**  
*that will sweeten your job*

**Qualité fabriquée ici**  
*pour vous faire plaisir*  
*dans votre travail*





## METAL

Metal

Metal

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Brazed Turning Tools

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# BROCAS

## Twist Drills

### Forets

Ref. **1021**

### BROCA UNIVERSAL COBALTO MULTI INOX

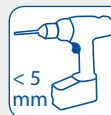
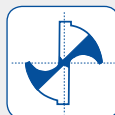
**Multi-STAINLESS** Cobalt Universal Twist Drill  
Foret Universel Cobalt **Multi INOX**



### BROA

HSSE  
5% Co

DIN  
338 W



Chapa  
Sheets  
Tôle

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

INOX / Stainless Steel

Cobre / Copper / Cuivre

Aluminio / Aluminium



#### Ángulo de Punta 135°:

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

#### 135° Point Angle:

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

#### Angle de pointe 135°:

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



#### Hélice 40°:

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

#### 40° Helix:

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

#### Helix 40°:

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



#### Mango De 3 Planos:

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

#### 3-Flat Shank:

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

#### Queue 3 plans:

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

| Ø<br>mm | L<br>mm | I<br>mm | ISO | Nº Art. | €     |
|---------|---------|---------|-----|---------|-------|
| 1,00    | 34      | 12      | 10  | 25641   | 2,32  |
| 1,50    | 40      | 18      | 10  | 25644   | 2,21  |
| 2,00    | 49      | 24      | 10  | 25645   | 2,21  |
| 2,50    | 57      | 30      | 10  | 25647   | 2,21  |
| 3,00    | 61      | 33      | 10  | 25650   | 2,16  |
| 3,20    | 65      | 36      | 10  | 25710   | 2,66  |
| 3,25    | 65      | 36      | 10  | 25728   | 2,66  |
| 3,30    | 65      | 36      | 10  | 25730   | 2,66  |
| 3,50    | 70      | 39      | 10  | 25733   | 2,61  |
| 4,00    | 75      | 43      | 10  | 25744   | 2,84  |
| 4,20    | 75      | 43      | 10  | 25751   | 3,15  |
| 4,25    | 75      | 43      | 10  | 25756   | 3,15  |
| 4,50    | 80      | 47      | 10  | 25762   | 3,15  |
| 5,00    | 86      | 52      | 10  | 25769   | 3,38  |
| 5,20    | 86      | 52      | 10  | 25774   | 3,95  |
| 5,50    | 93      | 57      | 10  | 25780   | 4,28  |
| 6,00    | 93      | 57      | 10  | 25788   | 4,55  |
| 6,50    | 101     | 63      | 10  | 25793   | 5,32  |
| 6,80    | 109     | 69      | 10  | 25798   | 6,22  |
| 7,00    | 109     | 69      | 10  | 25801   | 5,80  |
| 7,50    | 109     | 69      | 10  | 25805   | 6,17  |
| 8,00    | 117     | 75      | 10  | 25807   | 7,22  |
| 8,50    | 117     | 75      | 5   | 25811   | 7,54  |
| 9,00    | 125     | 81      | 5   | 25813   | 9,60  |
| 9,50    | 125     | 81      | 5   | 25815   | 9,93  |
| 10,00   | 133     | 87      | 5   | 25817   | 10,96 |
| 10,20   | 133     | 87      | 1   | 32666   | 14,78 |
| 10,50   | 133     | 87      | 1   | 25821   | 14,78 |
| 11,00   | 142     | 94      | 1   | 25823   | 16,32 |
| 11,50   | 142     | 94      | 1   | 25825   | 18,77 |
| 12,00   | 151     | 101     | 1   | 25827   | 20,13 |
| 12,50   | 151     | 101     | 1   | 25829   | 22,41 |
| 13,00   | 151     | 101     | 1   | 25831   | 22,74 |





# Cabinet 1021

## BROCA UNIVERSAL COBALTO MULTI INOX

Multi-STAINLESS Cobalt Universal Twist Drill

Foret Universel Cobalt Multi INOX

no  
ve  
dad  
new



|     |      |     |     |     |    |     |      |     |   |    |  |
|-----|------|-----|-----|-----|----|-----|------|-----|---|----|--|
| 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 |     | 5    |     | 5 |    |  |
| ø   | 7,5  |     |     | 8   |    |     | 8,5  |     |   | 9  |  |
| Pcs | 5    |     |     | 5   |    |     | 5    |     |   | 5  |  |
| ø   | 9,5  |     |     | 10  |    |     | 10,5 |     |   | 11 |  |
| Pcs | 5    |     |     | 5   |    |     | 1    |     |   | 1  |  |
| ø   | 11,5 |     |     | 12  |    |     | 12,5 |     |   | 13 |  |
| Pcs | 1    |     |     | 1   |    |     | 1    |     |   | 1  |  |

Nº Art. 55448: **747,05 €**

Ref. **1004**

## BROCA UNIVERSAL COBALTO MULTI INOX

Multi-STAINLESS Cobalt Universal Twist Drill

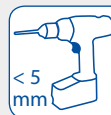
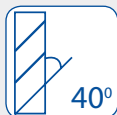
Foret Universel Cobalt Multi INOX



### BOROA

HSSE  
5% Co

DIN  
338 W



Chapa  
Sheets  
Tôle

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

INOX / Stainless Steel

Cobre / Copper / Cuivre

Aluminio / Aluminium



| Ø<br>mm | L<br>mm | I<br>mm |   | Nº Art. | €     |
|---------|---------|---------|---|---------|-------|
| 2,00    | 2,00    | 24      | 2 | 34051   | 5,12  |
| 2,50    | 2,50    | 30      | 2 | 34052   | 5,12  |
| 3,00    | 3,00    | 33      | 2 | 34053   | 5,01  |
| 3,25    | 3,25    | 36      | 2 | 34054   | 5,93  |
| 3,30    | 3,30    | 36      | 2 | 39917   | 5,93  |
| 3,50    | 3,50    | 39      | 2 | 34055   | 5,85  |
| 4,00    | 4,00    | 43      | 2 | 34056   | 6,30  |
| 4,20    | 4,20    | 43      | 1 | 39918   | 3,53  |
| 4,25    | 4,25    | 43      | 1 | 34057   | 3,53  |
| 4,50    | 4,50    | 47      | 1 | 34058   | 3,53  |
| 5,00    | 5,00    | 52      | 1 | 34059   | 3,77  |
| 5,50    | 5,50    | 57      | 1 | 34060   | 4,77  |
| 6,00    | 6,00    | 57      | 1 | 34061   | 5,08  |
| 6,50    | 6,50    | 63      | 1 | 34062   | 5,73  |
| 6,80    | 6,80    | 69      | 1 | 39919   | 6,70  |
| 7,00    | 7,00    | 69      | 1 | 34063   | 6,25  |
| 7,50    | 7,50    | 69      | 1 | 34064   | 6,66  |
| 8,00    | 8,00    | 75      | 1 | 34065   | 7,80  |
| 8,50    | 8,50    | 75      | 1 | 34066   | 8,14  |
| 9,00    | 9,00    | 81      | 1 | 34067   | 10,37 |
| 10,00   | 10,00   | 87      | 1 | 34068   | 11,52 |
| 10,20   | 10,20   | 87      | 1 | 39920   | 15,53 |
| 11,00   | 11,00   | 94      | 1 | 34069   | 17,12 |
| 12,00   | 12,00   | 101     | 1 | 34070   | 21,14 |
| 13,00   | 13,00   | 101     | 1 | 34071   | 23,87 |

## Display 62

### BROCA UNIVERSAL COBALTO MULTI INOX

Multi-STAINLESS Cobalt Universal Twist Drill

Foret Universel Cobalt Multi INOX



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

Ref. 4995 - N° Art. 34377: **603, 28 €**

## Display 50

### BROCA UNIVERSAL COBALTO MULTI INOX + PREVIOS ROSCADO

Multi-STAINLESS Cobalt Universal Twist Drill + Before Threading

Foret Universel Cobalt Multi INOX + Pré-Taradage



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

Ref. 4995 - N° Art. 55633: **708,08 €**

## Sets 1021

### BROCA UNIVERSAL COBALTO MULTI INOX

Multi-STAINLESS Cobalt Universal Twist Drill

Foret Universel Cobalt Multi INOX

Ref. **1462**



Ref. **1466**

Ø1  
Ø1,5  
**¡SIN CARGO!**  
Free!  
Gratuits!



Ref. **1456**

Ø1  
Ø1,5  
**¡SIN CARGO!**  
Free!  
Gratuits!



Cont. Ø    N° Art.    €  
6 Pcs: 2 - 3 - 4 - 5 - 6 - 8 mm    34204    **28,13**

Cont. Ø    N° Art.    €  
19 Pcs: 1 - 10 x 0,5 mm    34201    **92,39**

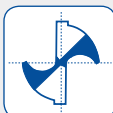
Cont. Ø    N° Art.    €  
25 Pcs: 1 - 13 x 0,5 mm    34199    **208,70**



Ref. **1016****BROCA MANGO CILÍNDRICO COBALTO**

Cobalt Straight Shank Twist Drill

Foret Queue Cylindrique Cobalt

**PROFESSIONAL**HSSE  
5% CoDIN  
338 NMateriales Duros  
Hard Materials  
Materiaux DursAceros <1300 N/mm<sup>2</sup> Steel

INOX Martensítico Stainless

Titanio / Titanium



| Ø<br>mm | L<br>mm | I<br>mm |  | Nº Art. | €    |
|---------|---------|---------|-----------------------------------------------------------------------------------|---------|------|
| 0,50    | 22      | 6       | 10                                                                                | 37442   | 1,59 |
| 0,60    | 27      | 7       | 10                                                                                | 37443   | 2,04 |
| 0,70    | 28      | 9       | 10                                                                                | 37444   | 2,04 |
| 0,75    | 28      | 9       | 10                                                                                | 37445   | 1,47 |
| 0,80    | 30      | 10      | 10                                                                                | 37446   | 1,51 |
| 0,90    | 32      | 11      | 10                                                                                | 37447   | 1,51 |
| 1,00    | 34      | 12      | 10                                                                                | 27309   | 1,18 |
| 1,10    | 36      | 14      | 10                                                                                | 20107   | 1,45 |
| 1,20    | 38      | 16      | 10                                                                                | 28861   | 1,44 |
| 1,25    | 38      | 16      | 10                                                                                | 20112   | 1,39 |
| 1,30    | 38      | 16      | 10                                                                                | 20116   | 1,44 |
| 1,40    | 40      | 18      | 10                                                                                | 20125   | 1,44 |
| 1,50    | 40      | 18      | 10                                                                                | 27170   | 1,12 |
| 1,60    | 43      | 20      | 10                                                                                | 20133   | 1,44 |
| 1,70    | 43      | 20      | 10                                                                                | 20142   | 1,44 |
| 1,75    | 46      | 22      | 10                                                                                | 20146   | 1,39 |
| 1,80    | 46      | 22      | 10                                                                                | 20151   | 1,44 |
| 1,90    | 46      | 22      | 10                                                                                | 20155   | 1,44 |
| 2,00    | 49      | 24      | 10                                                                                | 19247   | 1,17 |
| 2,10    | 49      | 24      | 10                                                                                | 20161   | 1,50 |
| 2,20    | 53      | 27      | 10                                                                                | 20166   | 1,50 |
| 2,25    | 53      | 27      | 10                                                                                | 20170   | 1,44 |
| 2,30    | 53      | 27      | 10                                                                                | 20175   | 1,50 |
| 2,40    | 57      | 30      | 10                                                                                | 20184   | 1,50 |
| 2,50    | 57      | 30      | 10                                                                                | 19251   | 1,17 |
| 2,60    | 57      | 30      | 10                                                                                | 20199   | 1,46 |
| 2,70    | 61      | 33      | 10                                                                                | 20203   | 1,46 |
| 2,75    | 61      | 33      | 10                                                                                | 19262   | 1,44 |
| 2,80    | 61      | 33      | 10                                                                                | 20209   | 1,46 |
| 2,90    | 61      | 33      | 10                                                                                | 20214   | 1,46 |
| 3,00    | 61      | 33      | 10                                                                                | 19256   | 1,14 |
| 3,10    | 65      | 36      | 10                                                                                | 20220   | 1,39 |
| 3,20    | 65      | 36      | 10                                                                                | 20224   | 1,39 |
| 3,25    | 65      | 36      | 10                                                                                | 19259   | 1,39 |
| 3,30    | 65      | 36      | 10                                                                                | 20230   | 1,39 |
| 3,40    | 70      | 39      | 10                                                                                | 20235   | 1,46 |
| 3,50    | 70      | 39      | 10                                                                                | 19268   | 1,38 |
| 3,60    | 70      | 39      | 10                                                                                | 20241   | 1,75 |
| 3,70    | 70      | 39      | 10                                                                                | 20245   | 1,75 |
| 3,75    | 70      | 39      | 10                                                                                | 19269   | 1,64 |
| 3,80    | 75      | 43      | 10                                                                                | 20251   | 1,75 |
| 3,90    | 75      | 43      | 10                                                                                | 20256   | 1,75 |
| 4,00    | 75      | 43      | 10                                                                                | 19286   | 1,48 |
| 4,10    | 75      | 43      | 10                                                                                | 20265   | 1,64 |
| 4,20    | 75      | 43      | 10                                                                                | 20269   | 1,64 |
| 4,25    | 75      | 43      | 10                                                                                | 19271   | 1,64 |

| Ø<br>mm | L<br>mm | I<br>mm |  | Nº Art. | €    |
|---------|---------|---------|-----------------------------------------------------------------------------------|---------|------|
| 4,30    | 80      | 47      | 10                                                                                | 20278   | 1,75 |
| 4,40    | 80      | 47      | 10                                                                                | 20283   | 1,75 |
| 4,50    | 80      | 47      | 10                                                                                | 19274   | 1,69 |
| 4,60    | 80      | 47      | 10                                                                                | 20289   | 1,95 |
| 4,70    | 80      | 47      | 10                                                                                | 20293   | 1,95 |
| 4,75    | 80      | 47      | 10                                                                                | 20298   | 1,84 |
| 4,80    | 86      | 52      | 10                                                                                | 20302   | 1,95 |
| 4,90    | 86      | 52      | 10                                                                                | 20311   | 1,95 |
| 5,00    | 86      | 52      | 10                                                                                | 19277   | 1,77 |
| 5,10    | 86      | 52      | 10                                                                                | 20320   | 2,11 |
| 5,20    | 86      | 52      | 10                                                                                | 20328   | 2,11 |
| 5,25    | 86      | 52      | 10                                                                                | 19280   | 2,09 |
| 5,30    | 86      | 52      | 10                                                                                | 20340   | 2,11 |
| 5,40    | 93      | 57      | 10                                                                                | 20349   | 2,11 |
| 5,50    | 93      | 57      | 10                                                                                | 19290   | 2,24 |
| 5,60    | 93      | 57      | 10                                                                                | 20361   | 2,67 |
| 5,70    | 93      | 57      | 10                                                                                | 20370   | 2,67 |
| 5,75    | 93      | 57      | 10                                                                                | 20379   | 2,52 |
| 5,80    | 93      | 57      | 10                                                                                | 20388   | 2,67 |
| 5,90    | 93      | 57      | 10                                                                                | 20397   | 2,67 |
| 6,00    | 93      | 57      | 10                                                                                | 19301   | 2,39 |
| 6,10    | 101     | 63      | 10                                                                                | 20415   | 2,96 |
| 6,20    | 101     | 63      | 10                                                                                | 20424   | 2,96 |
| 6,25    | 101     | 63      | 10                                                                                | 20433   | 2,80 |
| 6,30    | 101     | 63      | 10                                                                                | 20442   | 2,96 |
| 6,40    | 101     | 63      | 10                                                                                | 20451   | 2,96 |
| 6,50    | 101     | 63      | 10                                                                                | 27290   | 2,87 |
| 6,60    | 101     | 63      | 10                                                                                | 20466   | 3,55 |
| 6,70    | 101     | 63      | 10                                                                                | 20475   | 3,55 |
| 6,75    | 109     | 69      | 10                                                                                | 20481   | 3,34 |
| 6,80    | 109     | 69      | 10                                                                                | 20488   | 3,34 |
| 6,90    | 109     | 69      | 10                                                                                | 20493   | 3,55 |
| 7,00    | 109     | 69      | 10                                                                                | 19305   | 3,13 |
| 7,10    | 109     | 69      | 10                                                                                | 20499   | 4,52 |
| 7,20    | 109     | 69      | 10                                                                                | 20503   | 4,52 |
| 7,25    | 109     | 69      | 10                                                                                | 20508   | 4,26 |
| 7,30    | 109     | 69      | 10                                                                                | 20512   | 4,52 |
| 7,40    | 109     | 69      | 10                                                                                | 20517   | 4,52 |
| 7,50    | 109     | 69      | 10                                                                                | 19292   | 3,34 |
| 7,60    | 117     | 75      | 10                                                                                | 20523   | 5,46 |
| 7,70    | 117     | 75      | 10                                                                                | 20527   | 5,46 |
| 7,75    | 117     | 75      | 10                                                                                | 20532   | 5,15 |
| 7,80    | 117     | 75      | 10                                                                                | 20536   | 5,46 |
| 7,90    | 117     | 75      | 10                                                                                | 20541   | 5,46 |
| 8,00    | 117     | 75      | 10                                                                                | 20208   | 3,91 |
| 8,10    | 117     | 75      | 5                                                                                 | 22734   | 5,21 |

| Ø<br>mm | L<br>mm | I<br>mm |  | Nº Art. | €     |
|---------|---------|---------|-------------------------------------------------------------------------------------|---------|-------|
| 8,20    | 117     | 75      | 5                                                                                   | 22737   | 5,21  |
| 8,25    | 117     | 75      | 5                                                                                   | 22740   | 4,92  |
| 8,30    | 117     | 75      | 5                                                                                   | 22743   | 5,21  |
| 8,40    | 117     | 75      | 5                                                                                   | 22746   | 5,21  |
| 8,50    | 117     | 75      | 5                                                                                   | 19298   | 4,07  |
| 8,60    | 125     | 81      | 5                                                                                   | 22752   | 6,63  |
| 8,70    | 125     | 81      | 5                                                                                   | 22755   | 6,63  |
| 8,75    | 125     | 81      | 5                                                                                   | 22758   | 6,26  |
| 8,80    | 125     | 81      | 5                                                                                   | 22761   | 6,63  |
| 8,90    | 125     | 81      | 5                                                                                   | 22764   | 6,63  |
| 9,00    | 125     | 81      | 5                                                                                   | 20358   | 5,19  |
| 9,10    | 125     | 81      | 5                                                                                   | 22768   | 7,35  |
| 9,20    | 125     | 81      | 5                                                                                   | 22771   | 7,35  |
| 9,25    | 125     | 81      | 5                                                                                   | 22774   | 6,92  |
| 9,30    | 125     | 81      | 5                                                                                   | 22777   | 7,35  |
| 9,40    | 125     | 81      | 5                                                                                   | 22780   | 7,35  |
| 9,50    | 125     | 81      | 5                                                                                   | 20545   | 5,38  |
| 9,60    | 133     | 87      | 5                                                                                   | 22784   | 8,65  |
| 9,70    | 133     | 87      | 5                                                                                   | 23567   | 8,65  |
| 9,75    | 133     | 87      | 5                                                                                   | 26697   | 8,16  |
| 9,80    | 133     | 87      | 5                                                                                   | 26809   | 8,65  |
| 9,90    | 133     | 87      | 5                                                                                   | 27121   | 8,65  |
| 10,00   | 133     | 87      | 5                                                                                   | 27291   | 5,91  |
| 10,10   | 133     | 87      | 5                                                                                   | 27318   | 9,93  |
| 10,20   | 133     | 87      | 5                                                                                   | 27541   | 8,37  |
| 10,25   | 133     | 87      | 5                                                                                   | 27544   | 10,30 |
| 10,30   | 133     | 87      | 5                                                                                   | 27585   | 9,93  |
| 10,40   | 133     | 87      | 5                                                                                   | 27682   | 9,93  |
| 10,50   | 133     | 87      | 5                                                                                   | 27685   | 8,37  |
| 10,60   | 133     | 87      | 5                                                                                   | 27690   | 11,55 |
| 10,70   | 142     | 94      | 5                                                                                   | 27693   | 11,55 |
| 10,75   | 142     | 94      | 5                                                                                   | 27696   | 11,99 |
| 10,80   | 142     | 94      | 5                                                                                   | 27699   | 11,55 |
| 10,90   | 142     | 94      | 5                                                                                   | 27702   | 11,55 |
| 11,00   | 142     | 94      | 5                                                                                   | 27705   | 9,25  |
| 11,10   | 142     | 94      | 5                                                                                   | 27708   | 13,15 |
| 11,20   | 142     | 94      | 5                                                                                   | 27711   | 13,15 |
| 11,25   | 142     | 94      | 5                                                                                   | 27714   | 13,65 |
| 11,30   | 142     | 94      | 5                                                                                   | 27717   | 13,15 |
| 11,40   | 142     | 94      | 5                                                                                   | 27720   | 13,15 |
| 11,50   | 142     | 94      | 5                                                                                   | 19307   | 11,06 |
| 11,60   | 142     | 94      | 5                                                                                   | 27724   | 13,61 |
| 11,70   | 142     | 94      | 5                                                                                   | 27727   | 13,61 |
| 11,75   | 142     | 94      | 5                                                                                   | 27730   | 14,12 |
| 11,80   | 142     | 94      | 5                                                                                   | 27733   | 13,61 |
| 11,90   | 151     | 101     | 5                                                                                   | 27736   | 13,61 |

Ref. **1016****BROCA MANGO CILÍNDRICO COBALTO**

Cobalt Straight Shank Twist Drill

Foret Queue Cylindrique Cobalt



| Ø<br>mm | L<br>mm | I<br>mm |   | Nº Art. | €     |
|---------|---------|---------|---|---------|-------|
| 12,00   | 151     | 101     | 5 | 19311   | 11,83 |
| 12,10   | 151     | 101     | 5 | 27742   | 15,77 |
| 12,20   | 151     | 101     | 5 | 27745   | 15,77 |
| 12,25   | 151     | 101     | 5 | 19313   | 16,37 |
| 12,30   | 151     | 101     | 5 | 27749   | 15,77 |
| 12,40   | 151     | 101     | 5 | 27752   | 15,77 |
| 12,50   | 151     | 101     | 5 | 27755   | 14,41 |
| 12,60   | 151     | 101     | 5 | 27758   | 16,47 |
| 12,70   | 151     | 101     | 5 | 27761   | 16,47 |
| 12,75   | 151     | 101     | 5 | 19316   | 17,10 |
| 12,80   | 151     | 101     | 5 | 27765   | 16,47 |
| 12,90   | 151     | 101     | 5 | 27768   | 16,47 |

| Ø<br>mm | L<br>mm | I<br>mm |   | Nº Art. | €     |
|---------|---------|---------|---|---------|-------|
| 13,00   | 151     | 101     | 5 | 27771   | 14,76 |
| 13,25   | 160     | 108     | 1 | 27777   | 20,40 |
| 13,50   | 160     | 108     | 1 | 27774   | 16,25 |
| 13,75   | 160     | 108     | 1 | 27780   | 20,40 |
| 14,00   | 160     | 108     | 1 | 27783   | 16,08 |
| 14,25   | 169     | 114     | 1 | 27786   | 26,81 |
| 14,50   | 169     | 114     | 1 | 27789   | 22,79 |
| 14,75   | 169     | 114     | 1 | 27792   | 26,81 |
| 15,00   | 169     | 114     | 1 | 27795   | 23,14 |
| 15,25   | 178     | 120     | 1 | 27798   | 37,02 |
| 15,50   | 178     | 120     | 1 | 27801   | 26,78 |
| 15,75   | 178     | 120     | 1 | 27804   | 37,02 |

| Ø<br>mm | L<br>mm | I<br>mm |   | Nº Art. | €     |
|---------|---------|---------|---|---------|-------|
| 16,00   | 178     | 120     | 1 | 27807   | 27,74 |
| 16,50   | 184     | 125     | 1 | 27811   | 31,71 |
| 17,00   | 184     | 125     | 1 | 27814   | 31,71 |
| 17,50   | 191     | 130     | 1 | 27817   | 35,15 |
| 18,00   | 191     | 130     | 1 | 27820   | 38,28 |
| 18,50   | 198     | 135     | 1 | 27823   | 42,29 |
| 19,00   | 198     | 135     | 1 | 27826   | 42,29 |
| 19,50   | 205     | 140     | 1 | 27829   | 46,89 |
| 20,00   | 205     | 140     | 1 | 27832   | 50,22 |

Ref. **1016**  
MASTER PACK**BROCA MANGO CILÍNDRICO COBALTO MASTER PACK**

Master Pack Cobalt Straight Shank Twist Drill

Foret Queue Cylindrique Cobalt Master Pack

| Ø<br>mm |    | Nº Art. | €     |
|---------|----|---------|-------|
| 1,00    | 30 | 44446   | 1,06  |
| 1,50    | 30 | 44456   | 1,01  |
| 2,00    | 60 | 44459   | 1,05  |
| 2,50    | 60 | 44462   | 1,05  |
| 3,00    | 60 | 44478   | 1,03  |
| 3,25    | 60 | 44481   | 1,25  |
| 3,50    | 60 | 44484   | 1,24  |
| 4,00    | 60 | 44490   | 1,33  |
| 4,25    | 60 | 44493   | 1,48  |
| 4,50    | 60 | 44496   | 1,52  |
| 5,00    | 60 | 44497   | 1,59  |
| 5,50    | 30 | 44499   | 2,02  |
| 6,00    | 60 | 44502   | 2,15  |
| 6,50    | 30 | 44505   | 2,58  |
| 7,00    | 30 | 44506   | 2,82  |
| 8,00    | 30 | 44508   | 3,52  |
| 8,50    | 30 | 44511   | 3,66  |
| 9,00    | 30 | 44514   | 4,67  |
| 10,00   | 30 | 44517   | 5,32  |
| 10,50   | 10 | 44523   | 7,53  |
| 11,00   | 10 | 44520   | 8,33  |
| 12,00   | 10 | 44526   | 10,65 |
| 13,00   | 10 | 44529   | 13,28 |

Ahorro por  
cantidadQuantity  
DiscountRemise sur  
quantité

Pedido mínimo 6 diámetros diferentes

Minimum order 6 different diameters

Minimum de commande 6 diamètres différents



# Cabinet 1016

## BROCA MANGO CILÍNDRICO COBALTO

Cobalt Straight Shank Twist Drill

Foret Queue Cylindrique Cobalt



|     |      |     |     |     |    |     |      |     |    |    |  |
|-----|------|-----|-----|-----|----|-----|------|-----|----|----|--|
| 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  |    |     | 10   |     |    | 10 |  |
| Ø   | 9,5  |     |     | 10  |    |     | 10,5 |     |    | 11 |  |
| Pcs | 10   |     |     | 10  |    |     | 5    |     |    | 5  |  |
| Ø   | 11,5 |     |     | 12  |    |     | 12,5 |     |    | 13 |  |
| Pcs | 5    |     |     | 5   |    |     | 5    |     |    | 5  |  |

Nº Art. 55449: **853,70 €**



Ref. **1006**

## BROCA MANGO CILÍNDRICO COBALTO

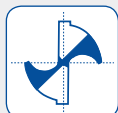
Cobalt Straight Shank Twist Drill  
Foret Queue Cylindrique Cobalt



**PROFESSIONAL**

HSSE  
5% Co

DIN  
338 N



Materiales Duros  
Hard Materials  
Materiaux Durs

Aceros <1300 N/mm<sup>2</sup> Steel

INOX Martensítico Stainless

Titanio / Titanium



| Ø<br>mm | L<br>mm | I<br>mm |   | Nº Art. | €     |
|---------|---------|---------|---|---------|-------|
| 1,00    | 34      | 12      | 2 | 30163   | 2,67  |
| 1,50    | 40      | 18      | 2 | 30164   | 2,54  |
| 2,00    | 49      | 24      | 2 | 18480   | 2,64  |
| 2,50    | 57      | 30      | 2 | 30165   | 2,64  |
| 3,00    | 61      | 33      | 2 | 18481   | 2,52  |
| 3,25    | 65      | 36      | 2 | 30166   | 3,05  |
| 3,30    | 65      | 36      | 2 | 34035   | 3,05  |
| 3,50    | 70      | 39      | 2 | 30167   | 3,02  |
| 4,00    | 75      | 43      | 2 | 18483   | 3,24  |
| 4,20    | 75      | 43      | 1 | 34036   | 1,80  |
| 4,25    | 75      | 43      | 1 | 30168   | 1,80  |
| 4,50    | 80      | 47      | 1 | 30169   | 1,86  |
| 5,00    | 86      | 52      | 1 | 18484   | 1,94  |
| 5,50    | 93      | 57      | 1 | 30170   | 2,47  |
| 6,00    | 93      | 57      | 1 | 18486   | 2,53  |
| 6,50    | 101     | 63      | 1 | 30171   | 3,02  |
| 6,80    | 109     | 69      | 1 | 34037   | 3,55  |
| 7,00    | 109     | 69      | 1 | 18487   | 3,31  |
| 7,50    | 109     | 69      | 1 | 30172   | 3,54  |
| 8,00    | 117     | 75      | 1 | 18489   | 4,14  |
| 8,50    | 117     | 75      | 1 | 30162   | 4,33  |
| 9,00    | 125     | 81      | 1 | 18490   | 5,50  |
| 10,00   | 133     | 87      | 1 | 18492   | 6,09  |
| 10,20   | 133     | 87      | 1 | 34038   | 8,62  |
| 11,00   | 142     | 94      | 1 | 30161   | 9,51  |
| 12,00   | 151     | 101     | 1 | 18493   | 12,19 |
| 13,00   | 151     | 101     | 1 | 30160   | 15,20 |

## Display 13

### BROCA MANGO CILÍNDRICO COBALTO

Cobalt Straight Shank Twist Drill

Foret Queue Cylindrique Cobalt



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

Ref. 4995 - Nº Art. 22181: **528,65 €**

## Display 48

### BROCA MANGO CILÍNDRICO COBALTO + PREVIOS ROSCADO

Cobalt Straight Shank Twist Drill + Before Threading

Foret Queue Cylindrique Cobalt + Pré-Taraudage

no  
ve  
dad  
new



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

Ref. 4995 - Nº Art. 55621: **559,06 €**

## Display 24

### SETS BROCAS MANGO CILINDRICO HSS + HSSE

HSS + HSSE Straight Shank Twist Drill Sets

Jeux Forets Queue Cylindrique HSS + HSSE



#### HSSE

Pcs

Ref. 1462 - 1016  
Metal Pro 5 Pcs.

5

Ref. 1466 - 1016  
Metal Pro 19 Pcs.

1

Ref. 1456 - 1016  
Metal Pro 25 Pcs.

1

#### HSS

Pcs

Ref. 1462 - 1010  
Metal 5 Pcs.

5

Ref. 1466 - 1010  
Metal 19 Pcs.

2

Ref. 1456 - 1010  
Metal 25 Pcs.

2

Ref. 4995 - Nº Art. 22320: **480,63 €**



# Sets 1016

## BROCA MANGO CILÍNDRICO COBALTO

Cobalt Straight Shank Twist Drill

Foret Queue Cylindrique Cobalt

Ref. **1462**



| Cont. Ø                         | Nº Art. | €     |
|---------------------------------|---------|-------|
| 6 Pcs: 2 - 3 - 4 - 5 - 6 - 8 mm | 30231   | 13,13 |

Ref. **1466**



| Cont. Ø                      | Nº Art.      | €              |
|------------------------------|--------------|----------------|
| 19 Pcs: 1 - 10 x 0,5 mm      | 25274        | 52,98          |
| <b>Master Pack (10 sets)</b> | <b>44538</b> | <b>47,69 *</b> |

Ahorro por cantidad  
Quantity Discount  
Remise sur quantité  
\* 1 set

Ref. **1456**



| Cont. Ø                     | Nº Art.      | €               |
|-----------------------------|--------------|-----------------|
| 25 Pcs: 1 - 13 x 0,5 mm     | 18370        | 123,83          |
| <b>Master Pack (5 sets)</b> | <b>44544</b> | <b>111,45 *</b> |

Ahorro por cantidad  
Quantity Discount  
Remise sur quantité  
\* 1 set

Ref. **1407**



| Cont. Ø                  | Nº Art. | €      |
|--------------------------|---------|--------|
| 37 Pcs: 1 - 10 x 0,25 mm | 18367   | 128,29 |

Ref. **1409**



| Cont. Ø                  | Nº Art. | €      |
|--------------------------|---------|--------|
| 49 Pcs: 1 - 13 x 0,25 mm | 18369   | 283,31 |

Ref. **1405**



| Cont. Ø                  | Nº Art. | €     |
|--------------------------|---------|-------|
| 50 Pcs: 1 - 5,9 x 0,1 mm | 10788   | 94,27 |

Ref. **1408**



| Cont. Ø                 | Nº Art. | €      |
|-------------------------|---------|--------|
| 41 Pcs: 6 - 10 x 0,1 mm | 18366   | 236,60 |

Ref. **1470**

no  
ve  
dad  
new



| Cont. Ø                   | Nº Art. | €      |
|---------------------------|---------|--------|
| 170 Pcs: 1-10 x 0,5 mm    |         |        |
| Ø 1-8: 10 pcs/Ø           | 10676   | 411,20 |
| Ø 8,5-10: 5 pcs/Ø         |         |        |
| 220 Pcs:                  |         |        |
| 1-13 x 0,5 + 3,3 + 4,2 mm | 25391   | 798,74 |
| Ø 1-8: 10 pcs/Ø           |         |        |
| Ø 8,5-13: 5 pcs/Ø         |         |        |



Ref. **1020**

## BROCA MANGO CILÍNDRICO COBALTO INOX

**STAINLESS** Cobalt Straight Shank Twist Drill

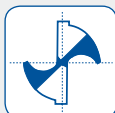
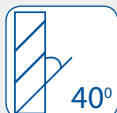
Foret Queue Cylindrique Cobalt INOX



### SPEED MAX

HSSE  
5% Co

DIN  
338 W



Chapa  
Sheets  
Tôle

INOX Austenítico Stainless

Aluminio / Aluminium



| Ø<br>mm | L<br>mm | I<br>mm |    | Nº Art. | €    |
|---------|---------|---------|----|---------|------|
| 1,00    | 34      | 12      | 10 | 14115   | 1,77 |
| 1,25    | 38      | 16      | 10 | 14116   | 2,10 |
| 1,50    | 40      | 18      | 10 | 14117   | 1,69 |
| 2,00    | 49      | 24      | 10 | 21615   | 1,69 |
| 2,25    | 53      | 27      | 10 | 21616   | 2,05 |
| 2,50    | 57      | 30      | 10 | 21618   | 1,69 |
| 2,75    | 61      | 33      | 10 | 21625   | 2,05 |
| 2,80    | 61      | 33      | 10 | 12964   | 2,21 |
| 3,00    | 61      | 33      | 10 | 16283   | 1,66 |
| 3,10    | 65      | 36      | 10 | 17970   | 2,04 |
| 3,20    | 65      | 36      | 10 | 16284   | 2,04 |
| 3,25    | 65      | 36      | 10 | 16285   | 2,04 |
| 3,30    | 65      | 36      | 10 | 16286   | 2,04 |
| 3,50    | 70      | 39      | 10 | 16287   | 2,01 |
| 3,70    | 70      | 39      | 10 | 14120   | 2,65 |
| 3,75    | 70      | 39      | 10 | 16288   | 2,40 |
| 3,80    | 75      | 43      | 10 | 12507   | 2,65 |
| 4,00    | 75      | 43      | 10 | 16289   | 2,16 |
| 4,10    | 75      | 43      | 10 | 16290   | 2,40 |
| 4,20    | 75      | 43      | 10 | 16291   | 2,40 |
| 4,25    | 75      | 43      | 10 | 16292   | 2,40 |
| 4,30    | 80      | 47      | 10 | 14122   | 2,65 |
| 4,50    | 80      | 47      | 10 | 16293   | 2,40 |
| 4,75    | 80      | 47      | 10 | 16294   | 2,68 |
| 4,80    | 86      | 52      | 10 | 14123   | 2,95 |
| 5,00    | 86      | 52      | 10 | 16295   | 2,58 |
| 5,10    | 86      | 52      | 10 | 16296   | 3,06 |
| 5,20    | 86      | 52      | 10 | 28626   | 3,19 |

| Ø<br>mm | L<br>mm | I<br>mm |    | Nº Art. | €     |
|---------|---------|---------|----|---------|-------|
| 5,25    | 86      | 52      | 10 | 16297   | 3,01  |
| 5,50    | 93      | 57      | 10 | 16298   | 3,27  |
| 5,70    | 93      | 57      | 10 | 25134   | 4,02  |
| 5,75    | 93      | 57      | 10 | 16299   | 3,64  |
| 6,00    | 93      | 57      | 10 | 16302   | 3,47  |
| 6,25    | 101     | 63      | 10 | 21627   | 3,98  |
| 6,50    | 101     | 63      | 10 | 16304   | 4,05  |
| 6,75    | 109     | 69      | 10 | 21628   | 4,75  |
| 6,80    | 109     | 69      | 10 | 16306   | 4,75  |
| 7,00    | 109     | 69      | 10 | 16307   | 4,42  |
| 7,25    | 109     | 69      | 10 | 21631   | 6,06  |
| 7,50    | 109     | 69      | 10 | 16309   | 4,71  |
| 8,00    | 117     | 75      | 10 | 16311   | 5,51  |
| 8,25    | 117     | 75      | 5  | 21633   | 6,99  |
| 8,50    | 117     | 75      | 5  | 16313   | 5,75  |
| 9,00    | 125     | 81      | 5  | 16314   | 7,32  |
| 9,10    | 125     | 81      | 5  | 14023   | 10,23 |
| 9,50    | 125     | 81      | 5  | 16316   | 7,58  |
| 10,00   | 133     | 87      | 5  | 16318   | 8,37  |
| 10,20   | 133     | 87      | 5  | 14248   | 11,28 |
| 10,25   | 133     | 87      | 5  | 21634   | 14,69 |
| 10,50   | 133     | 87      | 5  | 16320   | 11,28 |
| 11,00   | 142     | 94      | 5  | 16321   | 12,46 |
| 11,50   | 142     | 94      | 5  | 16322   | 14,33 |
| 12,00   | 151     | 101     | 5  | 16323   | 15,37 |
| 12,50   | 151     | 101     | 5  | 16324   | 17,10 |
| 13,00   | 151     | 101     | 5  | 16325   | 17,36 |



# Cabinet 1020

## BROCA MANGO CILÍNDRICO COBALTO INOX

**STAINLESS** Cobalt Straight Shank Twist Drill

Foret Queue Cylindrique Cobalt **INOX**

no  
ve  
dad  
new



|     |      |     |     |     |    |     |      |     |    |    |  |
|-----|------|-----|-----|-----|----|-----|------|-----|----|----|--|
| 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  |    |     | 10   |     |    | 10 |  |
| ø   | 9,5  |     |     | 10  |    |     | 10,5 |     |    | 11 |  |
| Pcs | 10   |     |     | 10  |    |     | 5    |     |    | 5  |  |
| ø   | 11,5 |     |     | 12  |    |     | 12,5 |     |    | 13 |  |
| Pcs | 5    |     |     | 5   |    |     | 5    |     |    | 5  |  |

Nº Art. 55446: **1160,50 €**

Ref. **1005**

## BROCA MANGO CILÍNDRICO COBALTO INOX

**STAINLESS** Cobalt Straight Shank Twist Drill

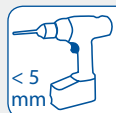
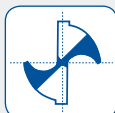
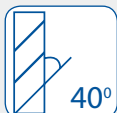
Foret Queue Cylindrique Cobalt **INOX**



### SPEED MAX

HSSE  
5% Co

DIN  
338 W



Chapa  
Sheets  
Tôle

INOX Austenítico Stainless

Aluminio / Aluminium



| Ø<br>mm | L<br>mm | I<br>mm |   | Nº Art. | €     |
|---------|---------|---------|---|---------|-------|
| 2,00    | 49      | 24      | 2 | 24757   | 3,92  |
| 2,50    | 57      | 30      | 2 | 24758   | 3,92  |
| 3,00    | 61      | 33      | 2 | 24759   | 3,83  |
| 3,25    | 65      | 36      | 2 | 24760   | 4,54  |
| 3,30    | 65      | 36      | 2 | 55632   | 4,54  |
| 3,50    | 70      | 39      | 2 | 24761   | 4,46  |
| 4,00    | 75      | 43      | 2 | 24762   | 4,81  |
| 4,20    | 75      | 43      | 1 | 55635   | 2,69  |
| 4,25    | 75      | 43      | 1 | 24763   | 2,69  |
| 4,50    | 80      | 47      | 1 | 24764   | 2,69  |
| 5,00    | 86      | 52      | 1 | 24765   | 2,88  |
| 5,50    | 93      | 57      | 1 | 24766   | 3,64  |
| 6,00    | 93      | 57      | 1 | 24767   | 3,89  |
| 6,50    | 101     | 63      | 1 | 24768   | 4,38  |
| 6,80    | 109     | 69      | 1 | 55636   | 5,13  |
| 7,00    | 109     | 69      | 1 | 24769   | 4,77  |
| 7,50    | 109     | 69      | 1 | 24770   | 5,08  |
| 8,00    | 117     | 75      | 1 | 24771   | 5,94  |
| 8,50    | 117     | 75      | 1 | 24772   | 6,21  |
| 9,00    | 125     | 81      | 1 | 24773   | 7,92  |
| 10,00   | 133     | 87      | 1 | 24774   | 8,79  |
| 10,20   | 133     | 87      | 1 | 55638   | 11,82 |
| 11,00   | 142     | 94      | 1 | 24775   | 13,06 |
| 12,00   | 151     | 101     | 1 | 24776   | 16,13 |
| 13,00   | 151     | 101     | 1 | 24777   | 18,23 |



## Display 16

### BROCA MANGO CILÍNDRICO COBALTO INOX

**STAINLESS** Cobalt Straight Shank Twist Drill

Foret Queue Cylindrique Cobalt **INOX**



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

Ref. 4995 - N° Art. 22497: **556,66 €**

## Display 49

### BROCA MANGO CILÍNDRICO COBALTO INOX + PREVIOS ROSCADO

**STAINLESS** Cobalt Straight Shank Twist Drill + Before Threading

Foret Queue Cylindrique Cobalt **INOX** + Pré-Taradage

no  
ve  
dad  
new



|     |      |     |     |     |      |    |      |     |     |     |   |     |
|-----|------|-----|-----|-----|------|----|------|-----|-----|-----|---|-----|
| Ø   | 8    | 8,5 | 9   | 10  | 10,2 | 11 | 12   | 13  |     |     |   |     |
| Pcs | 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 |   |     |
| Pcs | 5    | 5   | 5   | 5   | 5    | 10 | 5    | 5   | 5   | 3   |   |     |
| Ø   | 2    | 2   | 2,5 | 2,5 | 3    | 3  | 3,25 | 3,3 | 3,5 | 4   | 4 | 4,2 |
| Pcs | 3    | 2   | 3   | 2   | 5    | 5  | 5    | 5   | 5   | 5   | 5 | 5   |

Ref. 4995 - N° Art. 55629: **634,95 €**

## Sets 1020

### BROCA MANGO CILÍNDRICO COBALTO INOX

**STAINLESS** Cobalt Straight Shank Twist Drill

Foret Queue Cylindrique Cobalt **INOX**

Ref. **1462**



Ref. **1466**



Ref. **1456**



| Cont. Ø mm                   | N° Art. | €            |
|------------------------------|---------|--------------|
| 6 Pcs: 2 - 3 - 4 - 5 - 6 - 8 | 25367   | <b>21,48</b> |

| Cont. Ø mm           | N° Art. | €            |
|----------------------|---------|--------------|
| 19 Pcs: 1 - 10 x 0,5 | 24636   | <b>74,56</b> |

| Cont. Ø mm           | N° Art. | €             |
|----------------------|---------|---------------|
| 25 Pcs: 1 - 13 x 0,5 | 24638   | <b>163,62</b> |

Ref. **1027**

## BROCA MANGO REBAJADO COBALTO

Cobalt Reduced Shank Twist Drill

Foret Queue Reduit Cobalt



HSSE  
5% Co

DIN  
338 N



Aceros <1300 N/mm<sup>2</sup> Steel

INOX Martensítico Stainless

Titanio / Titanium

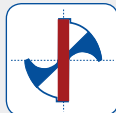


| Ø<br>mm | d<br>mm | L<br>mm | l<br>mm |   | Nº Art. | €     |
|---------|---------|---------|---------|---|---------|-------|
| 10,50   | 10,00   | 133     | 87      | 1 | 54954   | 10,88 |
| 11,00   | 10,00   | 142     | 94      | 1 | 54955   | 12,03 |
| 11,50   | 10,00   | 142     | 94      | 1 | 54956   | 14,38 |
| 12,00   | 10,00   | 151     | 101     | 1 | 22346   | 15,39 |
| 12,50   | 10,00   | 151     | 101     | 1 | 54957   | 18,73 |
| 13,00   | 10,00   | 151     | 101     | 1 | 22347   | 19,75 |
| 13,50   | 12,70   | 160     | 108     | 1 | 49200   | 21,13 |
| 14,00   | 12,70   | 160     | 108     | 1 | 22344   | 21,53 |
| 14,50   | 12,70   | 169     | 114     | 1 | 49201   | 29,63 |
| 15,00   | 12,70   | 169     | 114     | 1 | 22348   | 30,96 |
| 15,50   | 12,70   | 178     | 120     | 1 | 49223   | 34,81 |
| 16,00   | 12,70   | 178     | 120     | 1 | 22349   | 35,71 |
| 16,50   | 12,70   | 184     | 125     | 1 | 54979   | 41,22 |
| 17,00   | 12,70   | 184     | 125     | 1 | 22350   | 40,82 |
| 17,50   | 12,70   | 191     | 130     | 1 | 54958   | 45,70 |
| 18,00   | 12,70   | 191     | 130     | 1 | 22351   | 49,29 |
| 18,50   | 12,70   | 198     | 135     | 1 | 54959   | 54,98 |
| 19,00   | 12,70   | 198     | 135     | 1 | 22353   | 54,43 |
| 19,50   | 12,70   | 205     | 140     | 1 | 54960   | 60,96 |
| 20,00   | 12,70   | 205     | 140     | 1 | 22354   | 64,63 |

Ref. **9100****BROCA MANGO CILÍNDRICO PUNTA METAL DURO**

Carbide Tipped Straight Shank Twist Drill

Foret Queue Cylindrique Pointe Carbure

MD  
HM  
CarbureDIN  
338 N

Aceros &lt;1000 N/mm² Steel

Aceros &lt;1300 N/mm² Steel

Fundición / Cast Iron / Fonte

Titanio / Titanium

Cobre / Copper / Cuivre

Duro-Plásticos

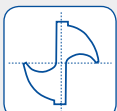


| Ø<br>mm | L<br>mm | I<br>mm |   | Nº Art. | €      |
|---------|---------|---------|---|---------|--------|
| 2,00    | 49      | 24      | 1 | 71429   | 15,03  |
| 2,50    | 57      | 30      | 1 | 71444   | 15,03  |
| 2,70    | 57      | 30      | 1 | 46916   | 15,03  |
| 3,00    | 61      | 33      | 1 | 71459   | 15,03  |
| 3,10    | 61      | 33      | 1 | 46917   | 15,03  |
| 3,20    | 65      | 36      | 1 | 23058   | 15,03  |
| 3,50    | 70      | 39      | 1 | 71474   | 15,03  |
| 3,60    | 70      | 39      | 1 | 52285   | 15,03  |
| 4,00    | 75      | 43      | 1 | 71489   | 15,03  |
| 4,10    | 75      | 43      | 1 | 46918   | 15,03  |
| 4,20    | 75      | 43      | 1 | 22016   | 15,03  |
| 4,50    | 80      | 47      | 1 | 71504   | 15,41  |
| 4,70    | 80      | 47      | 1 | 17101   | 15,41  |
| 5,00    | 86      | 52      | 1 | 71516   | 15,41  |
| 5,10    | 86      | 52      | 1 | 23059   | 16,26  |
| 5,50    | 93      | 57      | 1 | 71531   | 16,26  |
| 5,70    | 93      | 57      | 1 | 23889   | 17,05  |
| 5,80    | 93      | 57      | 1 | 54039   | 17,05  |
| 6,00    | 93      | 57      | 1 | 71543   | 17,05  |
| 6,50    | 101     | 63      | 1 | 71558   | 20,31  |
| 6,80    | 109     | 69      | 1 | 23893   | 20,33  |
| 7,00    | 109     | 69      | 1 | 71573   | 20,33  |
| 7,50    | 109     | 69      | 1 | 71585   | 21,12  |
| 8,00    | 117     | 75      | 1 | 71600   | 21,12  |
| 8,50    | 117     | 75      | 1 | 71615   | 23,05  |
| 8,60    | 125     | 81      | 1 | 27007   | 35,85  |
| 9,00    | 125     | 81      | 1 | 71630   | 23,05  |
| 9,50    | 125     | 81      | 1 | 71645   | 25,18  |
| 10,00   | 133     | 87      | 1 | 71660   | 25,18  |
| 10,20   | 133     | 87      | 1 | 27008   | 32,45  |
| 10,50   | 133     | 87      | 1 | 71663   | 32,45  |
| 11,00   | 142     | 94      | 1 | 71666   | 32,45  |
| 11,50   | 142     | 94      | 1 | 71672   | 37,32  |
| 12,00   | 151     | 101     | 1 | 71675   | 37,32  |
| 12,50   | 151     | 101     | 1 | 71681   | 44,65  |
| 13,00   | 151     | 101     | 1 | 71684   | 44,65  |
| 14,00   | 160     | 108     | 1 | 71690   | 51,95  |
| 15,00   | 169     | 114     | 1 | 71696   | 59,26  |
| 16,00   | 178     | 120     | 1 | 71702   | 68,21  |
| 17,00   | 184     | 125     | 1 | 71705   | 74,69  |
| 18,00   | 191     | 130     | 1 | 71711   | 80,38  |
| 19,00   | 198     | 135     | 1 | 71717   | 99,87  |
| 20,00   | 205     | 140     | 1 | 71723   | 113,66 |

Ref. **1010****BROCA MANGO CILÍNDRICO HSS**

HSS Straight Shank Twist Drill

Foret Queue Cylindrique HSS

**CLASSIQUE**HSS  
+  
TINDIN  
338 N
**Uso General**  
**General Purpose**  
**Utilisation Générale**
Aceros <850 N/mm<sup>2</sup> Steel

Fundición / Cast Iron / Fonte

Aluminio / Aluminium



| Ø<br>mm | L<br>mm | I<br>mm |    | Nº Art.<br>HSS | €    | Nº Art.<br>TIN | €    | Ø<br>mm | L<br>mm | I<br>mm |    | Nº Art.<br>HSS | €    | Nº Art.<br>TIN | €    |
|---------|---------|---------|----|----------------|------|----------------|------|---------|---------|---------|----|----------------|------|----------------|------|
| 0,30    | 19      | 4       | 10 | 17996          | 1,64 |                |      | 2,50    | 57      | 30      | 10 | 10055          | 0,67 | 18350          | 1,57 |
| 0,35    | 19      | 4       | 10 | 17999          | 1,68 |                |      | 2,55    | 57      | 30      | 10 | 18086          | 0,82 |                |      |
| 0,40    | 20      | 5       | 10 | 18002          | 1,64 |                |      | 2,60    | 57      | 30      | 10 | 10058          | 0,82 | 18353          | 1,68 |
| 0,45    | 20      | 5       | 10 | 18005          | 1,64 |                |      | 2,65    | 57      | 30      | 10 | 18089          | 0,82 |                |      |
| 0,50    | 22      | 6       | 10 | 18008          | 1,14 |                |      | 2,70    | 61      | 33      | 10 | 10061          | 0,82 | 27166          | 1,68 |
| 0,55    | 24      | 7       | 10 | 18011          | 1,46 |                |      | 2,75    | 61      | 33      | 10 | 10064          | 0,70 | 18356          | 1,63 |
| 0,60    | 24      | 7       | 10 | 18014          | 1,46 |                |      | 2,80    | 61      | 33      | 10 | 10067          | 0,82 | 18359          | 1,68 |
| 0,65    | 26      | 8       | 10 | 18017          | 1,46 |                |      | 2,85    | 61      | 33      | 10 | 18092          | 0,82 |                |      |
| 0,70    | 28      | 9       | 10 | 18020          | 1,46 |                |      | 2,90    | 61      | 33      | 10 | 10070          | 0,82 | 27088          | 1,68 |
| 0,75    | 28      | 9       | 10 | 18023          | 1,06 |                |      | 2,95    | 61      | 33      | 10 | 18095          | 0,82 |                |      |
| 0,80    | 30      | 10      | 10 | 18026          | 1,09 |                |      | 3,00    | 61      | 33      | 10 | 10073          | 0,61 | 18362          | 1,48 |
| 0,85    | 30      | 10      | 10 | 18029          | 1,09 |                |      | 3,05    | 65      | 36      | 10 | 18098          | 0,79 |                |      |
| 0,90    | 32      | 11      | 10 | 18032          | 1,09 |                |      | 3,10    | 65      | 36      | 10 | 10076          | 0,70 | 18365          | 1,87 |
| 0,95    | 32      | 11      | 10 | 18035          | 1,09 |                |      | 3,15    | 65      | 36      | 10 | 27343          | 0,79 | 29078          | 1,91 |
| 1,00    | 34      | 12      | 10 | 10001          | 0,84 | 18305          | 1,72 | 3,20    | 65      | 36      | 10 | 10079          | 0,70 | 18368          | 1,87 |
| 1,05    | 34      | 12      | 10 | 18038          | 0,93 |                |      | 3,25    | 65      | 36      | 10 | 10082          | 0,70 | 18371          | 1,87 |
| 1,10    | 36      | 14      | 10 | 10004          | 0,93 | 15056          | 1,75 | 3,30    | 65      | 36      | 10 | 10085          | 0,70 | 18374          | 1,87 |
| 1,15    | 36      | 14      | 10 | 18041          | 0,93 |                |      | 3,35    | 65      | 36      | 10 | 27345          | 0,90 |                |      |
| 1,20    | 38      | 16      | 10 | 10007          | 0,93 | 18308          | 1,75 | 3,40    | 70      | 39      | 10 | 10088          | 0,91 | 27322          | 2,00 |
| 1,25    | 38      | 16      | 10 | 10010          | 0,73 | 27087          | 1,63 | 3,45    | 70      | 39      | 10 | 27346          | 0,91 |                |      |
| 1,30    | 38      | 16      | 10 | 10013          | 0,82 | 18311          | 1,68 | 3,50    | 70      | 39      | 10 | 10091          | 0,69 | 18377          | 1,84 |
| 1,35    | 40      | 18      | 10 | 18050          | 0,82 |                |      | 3,55    | 70      | 39      | 10 | 18101          | 0,94 |                |      |
| 1,40    | 40      | 18      | 10 | 10016          | 0,82 | 27337          | 1,68 | 3,60    | 70      | 39      | 10 | 10094          | 0,94 | 27323          | 2,02 |
| 1,45    | 40      | 18      | 10 | 18053          | 0,82 |                |      | 3,65    | 70      | 39      | 10 | 18104          | 0,94 |                |      |
| 1,50    | 40      | 18      | 10 | 10019          | 0,64 | 18314          | 1,48 | 3,70    | 70      | 39      | 10 | 10097          | 0,94 | 18380          | 2,02 |
| 1,55    | 43      | 20      | 10 | 18059          | 0,79 |                |      | 3,75    | 70      | 39      | 10 | 10100          | 0,80 | 18383          | 1,96 |
| 1,60    | 43      | 20      | 10 | 10022          | 0,79 | 18317          | 1,66 | 3,80    | 75      | 43      | 10 | 10103          | 0,97 | 18386          | 2,05 |
| 1,65    | 43      | 20      | 10 | 18062          | 0,79 |                |      | 3,85    | 75      | 43      | 10 | 18107          | 0,97 |                |      |
| 1,70    | 43      | 20      | 10 | 10025          | 0,79 | 18320          | 1,66 | 3,90    | 75      | 43      | 10 | 10106          | 0,97 | 27165          | 2,05 |
| 1,75    | 46      | 22      | 10 | 10028          | 0,70 | 18323          | 1,61 | 3,95    | 75      | 43      | 10 | 18110          | 0,97 |                |      |
| 1,80    | 46      | 22      | 10 | 10031          | 0,70 | 18326          | 1,57 | 4,00    | 75      | 43      | 10 | 10109          | 0,78 | 18389          | 1,93 |
| 1,85    | 46      | 22      | 10 | 18068          | 0,70 |                |      | 4,05    | 75      | 43      | 10 | 27349          | 0,97 |                |      |
| 1,90    | 46      | 22      | 10 | 10034          | 0,70 | 18329          | 1,57 | 4,10    | 75      | 43      | 10 | 10112          | 0,87 | 18392          | 2,00 |
| 1,95    | 49      | 24      | 10 | 18071          | 0,70 |                |      | 4,15    | 75      | 43      | 10 | 27350          | 0,97 |                |      |
| 2,00    | 49      | 24      | 10 | 10037          | 0,61 | 18332          | 1,48 | 4,20    | 75      | 43      | 10 | 10115          | 0,87 | 18395          | 2,00 |
| 2,05    | 49      | 24      | 10 | 18074          | 0,69 |                |      | 4,25    | 75      | 43      | 10 | 10118          | 0,87 | 18398          | 2,00 |
| 2,10    | 49      | 24      | 10 | 10040          | 0,69 | 18335          | 1,56 | 4,30    | 80      | 47      | 10 | 10121          | 1,15 | 18401          | 2,22 |
| 2,15    | 53      | 27      | 10 | 18077          | 0,69 |                |      | 4,35    | 80      | 47      | 10 | 18113          | 1,15 |                |      |
| 2,20    | 53      | 28      | 10 | 10043          | 0,69 | 18338          | 1,56 | 4,40    | 80      | 47      | 10 | 10124          | 1,15 | 18404          | 2,22 |
| 2,25    | 53      | 29      | 10 | 10046          | 0,64 | 18341          | 1,51 | 4,45    | 80      | 47      | 10 | 18116          | 1,15 |                |      |
| 2,30    | 53      | 30      | 10 | 10049          | 0,80 | 18344          | 1,67 | 4,50    | 80      | 47      | 10 | 10127          | 0,90 | 18407          | 2,03 |
| 2,35    | 53      | 31      | 10 | 18080          | 0,80 |                |      | 4,55    | 80      | 47      | 10 | 27288          | 1,16 |                |      |
| 2,40    | 57      | 30      | 10 | 10052          | 0,80 | 18347          | 1,67 | 4,60    | 80      | 47      | 10 | 10130          | 1,16 | 18410          | 2,24 |
| 2,45    | 57      | 30      | 10 | 18083          | 0,80 |                |      | 4,65    | 80      | 47      | 10 | 27352          | 1,16 |                |      |



Ref. **1010****BROCA MANGO CILÍNDRICO HSS**

HSS Straight Shank Twist Drill

Foret Queue Cylindrique HSS



| Ø<br>mm | L<br>mm | I<br>mm |  | Nº Art.<br>HSS | €    | Nº Art.<br>TIN | €    | Ø<br>mm | L<br>mm | I<br>mm |  | Nº Art.<br>HSS | €    | Nº Art.<br>TIN | €     |
|---------|---------|---------|-----------------------------------------------------------------------------------|----------------|------|----------------|------|---------|---------|---------|-------------------------------------------------------------------------------------|----------------|------|----------------|-------|
| 4,70    | 80      | 47      | 10                                                                                | 10133          | 1,16 | 18413          | 2,24 | 7,70    | 117     | 75      | 10                                                                                  | 10241          | 3,40 | 18506          | 6,31  |
| 4,75    | 80      | 47      | 10                                                                                | 10136          | 1,04 | 18416          | 2,16 | 7,75    | 117     | 75      | 10                                                                                  | 10244          | 2,63 | 27272          | 5,71  |
| 4,80    | 86      | 52      | 10                                                                                | 10139          | 1,30 | 18419          | 2,37 | 7,80    | 117     | 75      | 10                                                                                  | 10247          | 3,44 | 18509          | 6,33  |
| 4,85    | 86      | 52      | 10                                                                                | 18119          | 1,27 |                |      | 7,85    | 117     | 75      | 10                                                                                  | 27370          | 3,44 |                |       |
| 4,90    | 86      | 52      | 10                                                                                | 10142          | 1,27 | 18422          | 2,33 | 7,90    | 117     | 75      | 10                                                                                  | 10250          | 3,44 | 18512          | 6,33  |
| 4,95    | 86      | 52      | 10                                                                                | 18122          | 1,27 |                |      | 7,95    | 117     | 75      | 10                                                                                  | 27372          | 3,44 |                |       |
| 5,00    | 86      | 52      | 10                                                                                | 10145          | 0,96 | 18425          | 2,07 | 8,00    | 117     | 75      | 10                                                                                  | 10253          | 2,24 | 18515          | 5,27  |
| 5,05    | 86      | 52      | 10                                                                                | 18125          | 1,31 |                |      | 8,05    | 117     | 75      | 5                                                                                   | 27373          | 3,50 |                |       |
| 5,10    | 86      | 52      | 10                                                                                | 10148          | 1,31 | 18428          | 2,36 | 8,10    | 117     | 75      | 5                                                                                   | 10256          | 3,50 | 26675          | 6,93  |
| 5,15    | 86      | 52      | 10                                                                                | 27330          | 1,31 |                |      | 8,15    | 117     | 75      | 5                                                                                   | 27374          | 3,50 |                |       |
| 5,20    | 86      | 52      | 10                                                                                | 10151          | 1,31 | 18431          | 2,36 | 8,20    | 117     | 75      | 5                                                                                   | 10259          | 3,50 | 26678          | 6,93  |
| 5,25    | 86      | 52      | 10                                                                                | 10154          | 1,23 | 18434          | 2,34 | 8,25    | 117     | 75      | 5                                                                                   | 10262          | 2,63 | 18518          | 6,24  |
| 5,30    | 86      | 52      | 10                                                                                | 10157          | 1,62 | 18437          | 2,67 | 8,30    | 117     | 75      | 5                                                                                   | 10265          | 3,66 | 27311          | 7,08  |
| 5,35    | 93      | 57      | 10                                                                                | 18131          | 1,62 |                |      | 8,35    | 117     | 75      | 5                                                                                   | 27376          | 3,66 |                |       |
| 5,40    | 93      | 57      | 10                                                                                | 10160          | 1,62 | 27292          | 2,67 | 8,40    | 117     | 75      | 5                                                                                   | 10268          | 3,66 | 26681          | 7,08  |
| 5,45    | 93      | 57      | 10                                                                                | 27354          | 1,62 |                |      | 8,45    | 117     | 75      | 5                                                                                   | 27377          | 3,66 |                |       |
| 5,50    | 93      | 57      | 10                                                                                | 10163          | 1,28 | 18440          | 2,39 | 8,50    | 117     | 75      | 5                                                                                   | 10271          | 2,42 | 18521          | 5,96  |
| 5,55    | 93      | 57      | 10                                                                                | 27356          | 1,72 |                |      | 8,55    | 125     | 81      | 5                                                                                   | 27378          | 4,59 |                |       |
| 5,60    | 93      | 57      | 10                                                                                | 10166          | 1,72 | 18443          | 2,78 | 8,60    | 125     | 81      | 5                                                                                   | 10274          | 4,59 | 18524          | 7,97  |
| 5,65    | 93      | 57      | 10                                                                                | 18134          | 1,72 |                |      | 8,65    | 125     | 81      | 5                                                                                   | 27379          | 4,59 |                |       |
| 5,70    | 93      | 57      | 10                                                                                | 10169          | 1,72 | 18446          | 2,78 | 8,70    | 125     | 81      | 5                                                                                   | 10277          | 4,59 | 18527          | 7,97  |
| 5,75    | 93      | 57      | 10                                                                                | 10172          | 1,66 | 18449          | 2,76 | 8,75    | 125     | 81      | 5                                                                                   | 10280          | 3,52 | 18530          | 7,09  |
| 5,80    | 93      | 57      | 10                                                                                | 10175          | 1,62 | 18452          | 2,67 | 8,80    | 125     | 81      | 5                                                                                   | 10283          | 4,61 | 18533          | 7,98  |
| 5,85    | 93      | 57      | 10                                                                                | 27357          | 1,62 |                |      | 8,85    | 125     | 81      | 5                                                                                   | 27381          | 4,61 |                |       |
| 5,90    | 93      | 57      | 10                                                                                | 10178          | 1,62 | 18455          | 2,67 | 8,90    | 125     | 81      | 5                                                                                   | 10286          | 4,61 | 18536          | 7,98  |
| 5,95    | 93      | 57      | 10                                                                                | 27358          | 1,62 |                |      | 8,95    | 125     | 81      | 5                                                                                   | 27383          | 4,61 |                |       |
| 6,00    | 93      | 57      | 10                                                                                | 10181          | 1,32 | 18458          | 2,42 | 9,00    | 125     | 81      | 5                                                                                   | 10289          | 2,95 | 18539          | 6,45  |
| 6,05    | 101     | 63      | 10                                                                                | 27359          | 1,86 |                |      | 9,05    | 125     | 81      | 5                                                                                   | 27382          | 4,64 |                |       |
| 6,10    | 101     | 63      | 10                                                                                | 10184          | 1,86 | 18461          | 4,81 | 9,10    | 125     | 81      | 5                                                                                   | 10292          | 4,64 | 26684          | 8,01  |
| 6,15    | 101     | 63      | 10                                                                                | 27360          | 1,86 |                |      | 9,15    | 125     | 81      | 5                                                                                   | 27385          | 4,64 |                |       |
| 6,20    | 101     | 63      | 10                                                                                | 10187          | 1,86 | 18464          | 4,81 | 9,20    | 125     | 81      | 5                                                                                   | 10295          | 4,64 | 27553          | 8,01  |
| 6,25    | 101     | 63      | 10                                                                                | 10190          | 1,77 | 18467          | 4,81 | 9,25    | 125     | 81      | 5                                                                                   | 10298          | 3,55 | 27273          | 7,12  |
| 6,30    | 101     | 63      | 10                                                                                | 10193          | 1,97 | 27324          | 4,88 | 9,30    | 125     | 81      | 5                                                                                   | 10301          | 4,33 | 18542          | 7,71  |
| 6,35    | 101     | 63      | 10                                                                                | 27361          | 1,97 |                |      | 9,40    | 125     | 81      | 5                                                                                   | 10304          | 4,33 | 27149          | 7,71  |
| 6,40    | 101     | 63      | 10                                                                                | 10196          | 2,02 | 18470          | 4,97 | 9,45    | 125     | 81      | 5                                                                                   | 27387          | 4,33 |                |       |
| 6,45    | 101     | 63      | 10                                                                                | 18137          | 1,97 |                |      | 9,50    | 125     | 81      | 5                                                                                   | 10307          | 3,21 | 18545          | 6,72  |
| 6,50    | 101     | 63      | 10                                                                                | 10199          | 1,53 | 18473          | 4,59 | 9,55    | 133     | 87      | 5                                                                                   | 27389          | 5,54 |                |       |
| 6,55    | 101     | 63      | 10                                                                                | 18140          | 2,46 |                |      | 9,60    | 133     | 87      | 5                                                                                   | 10310          | 5,54 | 26687          | 8,87  |
| 6,60    | 101     | 63      | 10                                                                                | 10202          | 2,46 | 18476          | 5,36 | 9,65    | 133     | 87      | 5                                                                                   | 27390          | 5,54 |                |       |
| 6,65    | 101     | 63      | 10                                                                                | 27362          | 2,46 |                |      | 9,70    | 133     | 87      | 5                                                                                   | 10313          | 5,54 | 27151          | 8,87  |
| 6,70    | 101     | 63      | 10                                                                                | 10205          | 2,46 | 27333          | 5,36 | 9,75    | 133     | 87      | 5                                                                                   | 10316          | 4,01 | 18548          | 7,55  |
| 6,75    | 109     | 69      | 10                                                                                | 10208          | 1,85 | 18479          | 4,90 | 9,80    | 133     | 87      | 5                                                                                   | 10319          | 5,43 | 18551          | 8,77  |
| 6,80    | 109     | 69      | 10                                                                                | 10211          | 1,85 | 18482          | 4,90 | 9,85    | 133     | 87      | 5                                                                                   | 27391          | 5,43 |                |       |
| 6,85    | 109     | 69      | 10                                                                                | 18143          | 2,72 |                |      | 9,90    | 133     | 87      | 5                                                                                   | 10322          | 5,43 | 18554          | 8,77  |
| 6,90    | 109     | 69      | 10                                                                                | 10214          | 2,72 | 18485          | 5,59 | 9,95    | 133     | 87      | 5                                                                                   | 27393          | 5,43 |                |       |
| 6,95    | 109     | 69      | 10                                                                                | 27316          | 2,72 |                |      | 10,00   | 133     | 87      | 5                                                                                   | 10325          | 3,46 | 18557          | 6,96  |
| 7,00    | 109     | 69      | 10                                                                                | 10217          | 1,85 | 18488          | 4,90 | 10,10   | 133     | 87      | 5                                                                                   | 10328          | 4,64 |                |       |
| 7,05    | 109     | 69      | 10                                                                                | 27363          | 2,87 |                |      | 10,20   | 133     | 87      | 5                                                                                   | 10331          | 4,31 |                |       |
| 7,10    | 109     | 69      | 10                                                                                | 10220          | 2,87 | 18491          | 5,76 | 10,25   | 133     | 87      | 5                                                                                   | 10334          | 4,83 | 27274          | 12,31 |
| 7,15    | 109     | 69      | 10                                                                                | 27364          | 2,87 |                |      | 10,30   | 133     | 87      | 5                                                                                   | 10337          | 5,41 | 29151          | 12,59 |
| 7,20    | 109     | 69      | 10                                                                                | 10223          | 2,87 | 18494          | 5,76 | 10,40   | 133     | 87      | 5                                                                                   | 10340          | 5,41 |                |       |
| 7,25    | 109     | 69      | 10                                                                                | 10226          | 2,36 | 18497          | 5,37 | 10,50   | 133     | 87      | 5                                                                                   | 10343          | 4,31 | 18563          | 11,53 |
| 7,30    | 109     | 69      | 10                                                                                | 10229          | 2,87 | 18500          | 5,76 | 10,60   | 133     | 87      | 5                                                                                   | 10346          | 5,95 | 29154          | 12,80 |
| 7,35    | 109     | 69      | 10                                                                                | 27365          | 2,87 |                |      | 10,70   | 142     | 94      | 5                                                                                   | 10349          | 5,95 |                |       |
| 7,40    | 109     | 69      | 10                                                                                | 10232          | 2,87 | 27150          | 5,76 | 10,75   | 142     | 94      | 5                                                                                   | 10352          | 5,59 | 27277          | 12,74 |
| 7,45    | 109     | 69      | 10                                                                                | 27366          | 2,94 |                |      | 10,80   | 142     | 94      | 5                                                                                   | 10355          | 6,60 | 29157          | 13,43 |
| 7,50    | 109     | 69      | 10                                                                                | 10235          | 1,96 | 18503          | 5,01 | 10,90   | 142     | 94      | 5                                                                                   | 10358          | 6,60 |                |       |
| 7,55    | 117     | 75      | 10                                                                                | 27369          | 3,40 |                |      | 11,00   | 142     | 94      | 5                                                                                   | 10361          | 5,04 | 18566          | 12,21 |
| 7,60    | 117     | 75      | 10                                                                                | 10238          | 3,40 | 27313          | 6,31 | 11,10   | 142     | 94      | 5                                                                                   | 10364          | 6,72 |                |       |
| 7,65    | 117     | 75      | 10                                                                                | 27368          | 3,40 |                |      | 11,20   | 142     | 94      | 5                                                                                   | 10367          | 6,72 |                |       |

Ref. **1010****BROCA MANGO CILÍNDRICO HSS**

HSS Straight Shank Twist Drill

Foret Queue Cylindrique HSS

| Ø<br>mm | L<br>mm | I<br>mm |   | Nº Art.<br>HSS | €     | Nº Art.<br>TIN | €     | Ø<br>mm | L<br>mm | I<br>mm |    | Nº Art.<br>HSS | €     | Nº Art.<br>TIN | €     |
|---------|---------|---------|---|----------------|-------|----------------|-------|---------|---------|---------|----|----------------|-------|----------------|-------|
| 11,25   | 142     | 94      | 5 | 10370          | 5,70  | 26801          | 12,84 | 14,40   | 169     | 114     | 1  | 18191          | 15,08 |                |       |
| 11,30   | 142     | 94      | 5 | 10373          | 6,60  |                |       | 14,50   | 169     | 114     | 1  | 10460          | 11,14 | 29198          | 20,66 |
| 11,40   | 142     | 94      | 5 | 10376          | 6,60  |                |       | 14,60   | 169     | 114     | 1  | 18194          | 15,35 |                |       |
| 11,50   | 142     | 94      | 5 | 10379          | 5,38  | 18569          | 12,54 | 14,70   | 169     | 114     | 1  | 18197          | 15,35 |                |       |
| 11,60   | 142     | 94      | 5 | 10382          | 6,60  |                |       | 14,75   | 169     | 114     | 1  | 10463          | 12,12 | 29202          | 21,61 |
| 11,70   | 142     | 94      | 5 | 10385          | 6,60  |                |       | 14,80   | 169     | 114     | 1  | 18200          | 14,80 |                |       |
| 11,75   | 142     | 94      | 5 | 10388          | 5,70  | 27275          | 12,84 | 14,90   | 169     | 114     | 1  | 18203          | 14,80 |                |       |
| 11,80   | 142     | 94      | 5 | 10391          | 7,22  |                |       | 15,00   | 169     | 114     | 1  | 10466          | 11,27 | 29205          | 20,80 |
| 11,90   | 151     | 101     | 5 | 10394          | 7,22  |                |       | 15,20   | 178     | 120     | 1  | 18209          | 19,44 |                |       |
| 12,00   | 151     | 101     | 5 | 10397          | 5,99  | 18572          | 13,12 | 15,25   | 178     | 120     | 1  | 10469          | 16,54 | 29209          | 25,83 |
| 12,10   | 151     | 101     | 5 | 10400          | 8,43  | 29169          | 16,98 | 15,50   | 178     | 120     | 1  | 10472          | 13,18 | 29213          | 22,63 |
| 12,20   | 151     | 101     | 5 | 10403          | 8,43  |                |       | 15,60   | 178     | 120     | 1  | 18218          | 22,74 |                |       |
| 12,25   | 151     | 101     | 5 | 10406          | 7,43  | 18578          | 16,38 | 15,70   | 178     | 120     | 1  | 18221          | 22,74 |                |       |
| 12,30   | 151     | 101     | 5 | 10409          | 7,93  |                |       | 15,75   | 178     | 120     | 1  | 10475          | 16,76 |                |       |
| 12,40   | 151     | 101     | 5 | 10412          | 7,93  |                |       | 15,80   | 178     | 120     | 1  | 18224          | 21,23 |                |       |
| 12,50   | 151     | 101     | 5 | 10415          | 6,58  | 18581          | 15,55 | 15,90   | 178     | 120     | 1  | 18227          | 21,23 |                |       |
| 12,60   | 151     | 101     | 5 | 10418          | 8,23  |                |       | 16,00   | 178     | 120     | 1  | 10478          | 13,73 | 29220          | 23,14 |
| 12,70   | 151     | 101     | 5 | 10421          | 8,23  |                |       | 16,20   | 184     | 125     | 1  | 27289          | 29,05 |                |       |
| 12,75   | 151     | 101     | 5 | 10424          | 7,32  | 27276          | 16,28 | 16,25   | 184     | 125     | 1  | 10481          | 24,70 |                |       |
| 12,80   | 151     | 101     | 5 | 10427          | 9,18  |                |       | 16,50   | 184     | 125     | 1  | 10484          | 15,97 |                |       |
| 12,90   | 151     | 101     | 5 | 10430          | 9,18  |                |       | 16,75   | 184     | 125     | 1  | 10487          | 25,81 |                |       |
| 13,00   | 151     | 101     | 1 | 10433          | 6,81  | 18584          | 15,79 | 16,80   | 184     | 125     | 1  | 27676          | 39,02 |                |       |
| 13,10   | 151     | 101     | 1 | 10436          | 9,38  |                |       | 17,00   | 184     | 125     | 1  | 10490          | 15,97 |                |       |
| 13,20   | 151     | 101     | 1 | 18164          | 9,38  |                |       | 17,25   | 191     | 130     | 1  | 10493          | 26,80 |                |       |
| 13,25   | 160     | 108     | 1 | 10439          | 10,70 | 29180          | 20,26 | 17,50   | 191     | 130     | 1  | 10496          | 18,36 |                |       |
| 13,30   | 160     | 108     | 1 | 18167          | 14,52 |                |       | 17,75   | 191     | 130     | 1  | 10499          | 29,68 |                |       |
| 13,40   | 160     | 108     | 1 | 18170          | 14,52 |                |       | 18,00   | 191     | 130     | 1  | 10502          | 19,42 |                |       |
| 13,50   | 160     | 108     | 1 | 10442          | 9,64  | 29184          | 19,24 | 18,25   | 198     | 135     | 1  | 10505          | 29,11 |                |       |
| 13,60   | 160     | 108     | 1 | 18173          | 14,52 |                |       | 18,50   | 198     | 135     | 1  | 10508          | 21,56 |                |       |
| 13,70   | 160     | 108     | 1 | 10445          | 14,52 |                |       | 18,75   | 198     | 135     | 1  | 10511          | 29,95 |                |       |
| 13,75   | 160     | 108     | 1 | 10448          | 10,85 |                |       | 19,00   | 198     | 135     | 1  | 10514          | 21,56 |                |       |
| 13,80   | 160     | 108     | 1 | 18176          | 13,89 |                |       | 19,25   | 205     | 140     | 1  | 10517          | 39,17 |                |       |
| 13,90   | 160     | 108     | 1 | 10451          | 13,89 |                |       | 19,50   | 205     | 140     | 1  | 10520          | 23,12 |                |       |
| 14,00   | 160     | 108     | 1 | 10454          | 10,34 | 29007          | 19,91 | 19,75   | 205     | 140     | 1  | 10523          | 38,00 |                |       |
| 14,10   | 169     | 114     | 1 | 18179          | 14,80 |                |       | 20,00   | 205     | 140     | 10 | 10526          | 26,34 |                |       |
| 14,20   | 169     | 114     | 1 | 18185          | 14,80 |                |       |         |         |         |    |                |       |                |       |
| 14,25   | 169     | 114     | 1 | 10457          | 12,12 | 29194          | 21,61 |         |         |         |    |                |       |                |       |
| 14,30   | 169     | 114     | 1 | 18188          | 15,08 |                |       |         |         |         |    |                |       |                |       |

Ref. **1010**  
MASTER PACK**BROCA MANGO CILÍNDRICO HSS MASTER PACK**

Master Pack HSS Straight Shank Twist Drill

Foret Queue Cylindrique HSS Master Pack

| Ø<br>mm |     | Nº Art. | €    | Ø<br>mm |     | Nº Art. | €    |
|---------|-----|---------|------|---------|-----|---------|------|
| 1,00    | 50  | 43329   | 0,76 | 6,00    | 100 | 43361   | 1,19 |
| 1,50    | 50  | 43330   | 0,58 | 6,50    | 50  | 43362   | 1,38 |
| 2,00    | 100 | 43332   | 0,55 | 7,00    | 50  | 43363   | 1,67 |
| 2,50    | 100 | 43333   | 0,60 | 8,00    | 50  | 43365   | 2,02 |
| 3,00    | 100 | 43336   | 0,55 | 8,50    | 50  | 43366   | 2,18 |
| 3,25    | 100 | 43337   | 0,63 | 9,00    | 50  | 43367   | 2,66 |
| 3,50    | 100 | 43340   | 0,62 | 10,00   | 50  | 43369   | 3,11 |
| 4,00    | 100 | 43341   | 0,70 | 10,50   | 20  | 43370   | 3,88 |
| 4,25    | 100 | 43342   | 0,78 | 11,00   | 20  | 43371   | 4,54 |
| 4,50    | 100 | 43344   | 0,81 | 12,00   | 20  | 43372   | 5,39 |
| 5,00    | 100 | 43358   | 0,86 | 13,00   | 20  | 43375   | 6,13 |
| 5,50    | 50  | 43360   | 1,15 |         |     |         |      |

Ahorro por  
cantidadQuantity  
DiscountRemise sur  
quantité

Pedido mínimo 6 diámetros diferentes

Minimum order 6 different diameters

Minimum de commande 6 diamètres différents



# Cabinet 1010

## BROCA MANGO CILÍNDRICO HSS

HSS Straight Shank Twist Drill

Foret Queue Cylindrique HSS

no  
ve  
dad  
new



|     |             |            |            |            |          |            |             |            |          |           |  |  |
|-----|-------------|------------|------------|------------|----------|------------|-------------|------------|----------|-----------|--|--|
| ø   | <b>1</b>    | <b>1,5</b> | <b>2</b>   | <b>2,5</b> | <b>3</b> | <b>3,5</b> | <b>4</b>    | <b>4,5</b> |          |           |  |  |
| Pcs | 10          | 10         | 20         | 20         | 50       | 30         | 40          | 20         |          |           |  |  |
| ø   | <b>5</b>    |            | <b>5,5</b> |            | <b>6</b> |            | <b>6,5</b>  |            | <b>7</b> |           |  |  |
| Pcs | 40          |            | 10         |            | 30       |            | 10          |            | 10       |           |  |  |
| ø   | <b>7,5</b>  |            |            | <b>8</b>   |          |            | <b>8,5</b>  |            |          | <b>9</b>  |  |  |
| Pcs | 10          |            |            | 20         |          |            | 10          |            |          | 10        |  |  |
| ø   | <b>9,5</b>  |            |            | <b>10</b>  |          |            | <b>10,5</b> |            |          | <b>11</b> |  |  |
| Pcs | 10          |            |            | 10         |          |            | 5           |            |          | 5         |  |  |
| ø   | <b>11,5</b> |            |            | <b>12</b>  |          |            | <b>12,5</b> |            |          | <b>13</b> |  |  |
| Pcs | 5           |            |            | 5          |          |            | 5           |            |          | 5         |  |  |

Nº Art. 55440: **620,75 €**

Ref. **1001**

## BROCA MANGO CILÍNDRICO HSS

HSS Straight Shank Twist Drill

Foret Queue Cylindrique HSS

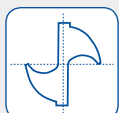
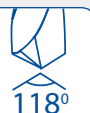


**CLASSIQUE**



HSS  
+  
TIN

DIN  
338 N



Usos General  
General Purpose  
Utilisation Générale

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

Fundición / Cast Iron / Fonte

Aluminio / Aluminium



| Ø<br>mm | L<br>mm | I<br>mm |   | Nº Art.<br>HSS | €    | Nº Art.<br>TIN | €     |
|---------|---------|---------|---|----------------|------|----------------|-------|
| 1,00    | 34      | 12      | 2 | 18781          | 1,94 | 16527          | 3,96  |
| 1,50    | 40      | 18      | 2 | 18783          | 1,46 | 16528          | 3,41  |
| 2,00    | 49      | 24      | 2 | 18792          | 1,39 | 16529          | 3,41  |
| 2,50    | 57      | 30      | 2 | 18793          | 1,53 | 16530          | 3,61  |
| 3,00    | 61      | 33      | 2 | 18687          | 1,39 | 16531          | 3,41  |
| 3,25    | 65      | 36      | 2 | 30156          | 1,58 | 16532          | 4,22  |
| 3,30    | 65      | 36      | 2 | 34039          | 1,58 |                |       |
| 3,50    | 70      | 39      | 2 | 18688          | 1,54 | 16533          | 4,14  |
| 4,00    | 75      | 43      | 2 | 18589          | 1,75 | 16534          | 4,32  |
| 4,20    | 75      | 43      | 1 | 34040          | 0,98 |                |       |
| 4,25    | 75      | 43      | 1 | 30157          | 0,98 | 16535          | 2,24  |
| 4,50    | 80      | 47      | 1 | 18591          | 1,00 | 16536          | 2,27  |
| 5,00    | 86      | 52      | 1 | 18592          | 1,07 | 16537          | 2,32  |
| 5,50    | 93      | 57      | 1 | 18594          | 1,43 | 16538          | 2,67  |
| 6,00    | 93      | 57      | 1 | 18595          | 1,47 | 16539          | 2,72  |
| 6,50    | 101     | 63      | 1 | 18597          | 1,67 | 16540          | 4,97  |
| 6,80    | 109     | 69      | 1 | 34041          | 2,02 |                |       |
| 7,00    | 109     | 69      | 1 | 18645          | 2,02 | 16541          | 5,30  |
| 7,50    | 109     | 69      | 1 | 18646          | 2,11 | 16542          | 5,41  |
| 8,00    | 117     | 75      | 1 | 18655          | 2,43 | 16543          | 5,70  |
| 8,50    | 117     | 75      | 1 | 18657          | 2,61 | 16544          | 6,45  |
| 9,00    | 125     | 81      | 1 | 18666          | 3,19 | 16545          | 6,97  |
| 10,00   | 133     | 87      | 1 | 18667          | 3,62 | 16546          | 7,30  |
| 10,20   | 133     | 87      | 1 | 34042          | 4,53 |                |       |
| 11,00   | 142     | 94      | 1 | 30158          | 5,27 | 16547          | 12,81 |
| 12,00   | 151     | 101     | 1 | 18676          | 6,28 | 16549          | 13,78 |
| 13,00   | 151     | 101     | 1 | 30159          | 7,13 | 16550          | 16,57 |





## Display 14

### BROCA MANGO CILÍNDRICO HSS

HSS Straight Shank Twist Drill  
Foret Queue Cylindrique HSS



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

Ref. 4995 - Nº Art. 22162: **393,40 €**

## Display 46

### BROCA MANGO CILÍNDRICO HSS + PREVIOS ROSCADO

HSS Straight Shank Twist Drill + Before Threading  
Foret Queue Cylindrique HSS + Pré-Taraudage

no  
ve  
dad  
new



|     |      |     |    |     |      |    |      |     |     |     |   |     |
|-----|------|-----|----|-----|------|----|------|-----|-----|-----|---|-----|
| 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  | 6,8 | 7   | 7,5 |   |     |
| Pcs | 15   | 8   | 8  | 7   | 5    | 10 | 5    | 5   | 5   | 5   |   |     |
| ø   | 1    | 1,5 | 2  | 2,5 | 3    | 3  | 3,25 | 3,3 | 3,5 | 4   | 4 | 4,2 |
| Pcs | 10   | 10  | 10 | 8   | 8    | 7  | 15   | 8   | 15  | 8   | 7 | 8   |

Ref. 4995 - Nº Art. 55618: **395,86 €**

## Display 24

### SETS BROCAS MANGO CILINDRICO HSS + HSSE

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



#### HSSE

|     | Ref. 1462 - 1016<br>Metal Pro 5 Pcs. | Ref. 1466 - 1016<br>Metal Pro 19 Pcs. | Ref. 1456 - 1016<br>Metal Pro 25 Pcs. |
|-----|--------------------------------------|---------------------------------------|---------------------------------------|
| Pcs | 5                                    | 1                                     | 1                                     |
|     | Ref. 1462 - 1010<br>Metal 5 Pcs.     | Ref. 1466 - 1010<br>Metal 19 Pcs.     | Ref. 1456 - 1010<br>Metal 25 Pcs.     |
| Pcs | 5                                    | 2                                     | 2                                     |

Ref. 4995 - Nº Art. 22320: **480,63 €**



# Sets 1010

## BROCA MANGO CILÍNDRICO HSS

HSS Straight Shank Twist Drill

Foret Queue Cylindrique HSS

Ref. **1462**



| Cont. Ø                         | Nº Art. | €    |
|---------------------------------|---------|------|
| 6 Pcs: 2 - 3 - 4 - 5 - 6 - 8 mm | 30230   | 8,30 |

Ref. **1466**



| Cont. Ø                      | Nº Art. | €       |
|------------------------------|---------|---------|
| 19 Pcs: 1 - 10 x 0,5 mm      | 25271   | 31,68   |
| <b>Master Pack (10 sets)</b> | 44535   | 28,51 * |

Ahorro por cantidad  
Quantity Discount  
Remise sur quantité  
\* 1 set

Ref. **1456**



| Cont. Ø                     | Nº Art. | €       |
|-----------------------------|---------|---------|
| 25 Pcs: 1 - 13 x 0,5 mm     | 25235   | 66,65   |
| <b>Master Pack (5 sets)</b> | 44541   | 59,99 * |

Ahorro por cantidad  
Quantity Discount  
Remise sur quantité  
\* 1 set

Ref. **1407**



| Cont. Ø                  | Nº Art. | €     |
|--------------------------|---------|-------|
| 37 Pcs: 1 - 10 x 0,25 mm | 26768   | 91,60 |

Ref. **1409**



| Cont. Ø                  | Nº Art. | €      |
|--------------------------|---------|--------|
| 49 Pcs: 1 - 13 x 0,25 mm | 26802   | 164,38 |

Ref. **1405**



| Cont. Ø                  | Nº Art. | €     |
|--------------------------|---------|-------|
| 50 Pcs: 1 - 5,9 x 0,1 mm | 26765   | 64,16 |

Ref. **1408**



| Cont. Ø                 | Nº Art. | €      |
|-------------------------|---------|--------|
| 41 Pcs: 6 - 10 x 0,1 mm | 26771   | 167,23 |

Ref. **1470**

no  
ve  
dad  
new



| Cont. Ø                | Nº Art. | €      |
|------------------------|---------|--------|
| 170 Pcs: 1-10 x 0,5 mm |         |        |
| Ø 1-8: 10 pcs/Ø        | 19590   | 237,65 |
| Ø 8,5-10: 5 pcs/Ø      |         |        |

| Cont. Ø                   | Nº Art. | €      |
|---------------------------|---------|--------|
| 220 Pcs:                  |         |        |
| 1-13 x 0,5 + 3,3 + 4,2 mm | 56676   | 432,74 |
| Ø 1-8: 10 pcs/Ø           |         |        |
| Ø 8,5-13: 5 pcs/Ø         |         |        |



Sets  
**1010**

## BROCA MANGO CILÍNDRICO HSS+TIN

HSS+TIN Straight Shank Twist Drill

Foret Queue Cylindrique HSS+TIN

Ref. **1466**



**TIN**

| Cont. Ø                 | Nº Art. | €     |
|-------------------------|---------|-------|
| 19 Pcs: 1 - 10 x 0,5 mm | 27132   | 68,73 |

Ref. **1456**



**TIN**

| Cont. Ø                 | Nº Art. | €      |
|-------------------------|---------|--------|
| 25 Pcs: 1 - 13 x 0,5 mm | 27133   | 150,63 |

Ref. **1407**



**TIN**

| Cont. Ø                  | Nº Art. | €      |
|--------------------------|---------|--------|
| 37 Pcs: 1 - 10 x 0,25 mm | 27134   | 161,08 |

Ref. **1409**



**TIN**

| Cont. Ø                  | Nº Art. | €      |
|--------------------------|---------|--------|
| 49 Pcs: 1 - 13 x 0,25 mm | 27135   | 330,97 |

Ref. **1405**



**TIN**

| Cont. Ø                  | Nº Art. | €      |
|--------------------------|---------|--------|
| 50 Pcs: 1 - 5,9 x 0,1 mm | 13154   | 112,65 |

Ref. **1408**



**TIN**

| Cont. Ø                 | Nº Art. | €      |
|-------------------------|---------|--------|
| 41 Pcs: 6 - 10 x 0,1 mm | 13152   | 292,40 |

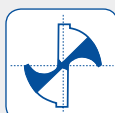
Ref. **1013****BROCA MANGO CILÍNDRICO HSS SPEED POINT**

Speed Point HSS Straight Shank Twist Drill

Foret Queue Cylindrique HSS Speed Point

**SPEED POINT**HSS  
+  
TIALSINDIN  
338 N

130°

Chapa  
Sheets  
Tôle

Aceros &lt;850 N/mm² Steel

Fundición / Cast Iron / Fonte

Aluminio

**TIALSIN**  
 Mayor resistencia al desgaste  
 Higher Wear Resistance  
 Plus haute à l'usure
no  
ve  
dad  
new

| Ø<br>mm | L<br>mm | I<br>mm |    | Nº Art.<br>HSS | €    | Nº Art.<br>TIALSIN | €    | Ø<br>mm | L<br>mm | I<br>mm |    | Nº Art.<br>HSS | €    | Nº Art.<br>TIALSIN | €    |
|---------|---------|---------|----|----------------|------|--------------------|------|---------|---------|---------|----|----------------|------|--------------------|------|
| 1,00    | 34      | 12      | 10 | 17673          | 0,95 | 37620              | 2,24 | 4,60    | 80      | 47      | 10 | 10783          | 1,32 |                    |      |
| 1,10    | 36      | 14      | 10 | 10650          | 1,04 |                    |      | 4,70    | 80      | 47      | 10 | 10786          | 1,32 |                    |      |
| 1,20    | 38      | 16      | 10 | 10656          | 1,04 |                    |      | 4,75    | 80      | 47      | 10 | 10787          | 1,17 |                    |      |
| 1,30    | 38      | 16      | 10 | 10662          | 0,92 |                    |      | 4,80    | 86      | 52      | 10 | 10789          | 1,44 |                    |      |
| 1,40    | 40      | 18      | 10 | 10663          | 0,92 |                    |      | 4,90    | 86      | 52      | 10 | 10792          | 1,42 |                    |      |
| 1,50    | 40      | 18      | 10 | 10666          | 0,70 | 37621              | 2,01 | 5,00    | 86      | 52      | 10 | 10793          | 1,08 | 17442              | 2,81 |
| 1,60    | 43      | 20      | 10 | 10669          | 0,88 |                    |      | 5,10    | 86      | 52      | 10 | 10795          | 1,45 |                    |      |
| 1,70    | 43      | 20      | 10 | 10670          | 0,88 |                    |      | 5,20    | 86      | 52      | 10 | 10797          | 1,45 |                    |      |
| 1,75    | 46      | 22      | 10 | 10671          | 0,79 |                    |      | 5,25    | 86      | 52      | 10 | 10798          | 1,39 |                    |      |
| 1,80    | 46      | 22      | 10 | 10672          | 0,78 |                    |      | 5,30    | 86      | 52      | 10 | 10799          | 1,82 |                    |      |
| 1,90    | 46      | 22      | 10 | 10674          | 0,78 |                    |      | 5,40    | 93      | 57      | 10 | 10800          | 1,82 |                    |      |
| 2,00    | 49      | 24      | 10 | 10675          | 0,67 | 37497              | 1,96 | 5,50    | 93      | 57      | 10 | 10801          | 1,43 | 37628              | 3,16 |
| 2,10    | 49      | 24      | 10 | 10677          | 0,77 |                    |      | 5,60    | 93      | 57      | 10 | 10802          | 1,91 |                    |      |
| 2,20    | 53      | 27      | 10 | 13596          | 0,77 |                    |      | 5,70    | 93      | 57      | 10 | 10804          | 1,91 |                    |      |
| 2,25    | 53      | 27      | 10 | 10679          | 0,70 |                    |      | 5,75    | 93      | 57      | 10 | 10807          | 1,87 |                    |      |
| 2,30    | 53      | 27      | 10 | 13608          | 0,91 |                    |      | 5,80    | 93      | 57      | 10 | 10808          | 1,82 |                    |      |
| 2,40    | 57      | 30      | 10 | 10683          | 0,91 |                    |      | 5,90    | 93      | 57      | 10 | 10810          | 1,82 |                    |      |
| 2,50    | 57      | 30      | 10 | 10684          | 0,75 | 37622              | 2,05 | 6,00    | 93      | 57      | 10 | 10811          | 1,47 | 32677              | 3,21 |
| 2,60    | 57      | 30      | 10 | 10685          | 0,92 |                    |      | 6,10    | 101     | 63      | 10 | 10813          | 2,10 |                    |      |
| 2,70    | 61      | 33      | 10 | 10686          | 0,92 |                    |      | 6,20    | 101     | 63      | 10 | 10814          | 2,10 |                    |      |
| 2,75    | 61      | 33      | 10 | 10687          | 0,78 |                    |      | 6,25    | 101     | 63      | 10 | 10815          | 1,97 |                    |      |
| 2,80    | 61      | 33      | 10 | 10690          | 0,92 |                    |      | 6,30    | 101     | 63      | 10 | 10816          | 2,21 |                    |      |
| 2,90    | 61      | 33      | 10 | 10692          | 0,92 |                    |      | 6,40    | 101     | 63      | 10 | 10819          | 2,25 |                    |      |
| 3,00    | 61      | 33      | 10 | 10693          | 0,67 | 37623              | 1,96 | 6,50    | 101     | 63      | 10 | 10822          | 1,72 | 36558              | 6,52 |
| 3,10    | 65      | 36      | 10 | 10695          | 0,78 |                    |      | 6,60    | 101     | 63      | 10 | 11145          | 2,76 |                    |      |
| 3,20    | 65      | 36      | 10 | 10696          | 0,78 | 32571              | 2,51 | 6,70    | 101     | 63      | 10 | 11154          | 2,76 |                    |      |
| 3,25    | 65      | 36      | 10 | 10698          | 0,78 |                    |      | 6,75    | 109     | 69      | 10 | 11157          | 2,09 |                    |      |
| 3,30    | 65      | 36      | 10 | 10699          | 0,78 | 37624              | 2,51 | 6,80    | 109     | 69      | 10 | 11163          | 2,09 | 37629              | 6,89 |
| 3,40    | 70      | 39      | 10 | 10701          | 1,01 |                    |      | 6,90    | 109     | 69      | 10 | 11166          | 3,03 |                    |      |
| 3,50    | 70      | 39      | 10 | 10702          | 0,77 | 37625              | 2,50 | 7,00    | 109     | 69      | 10 | 11172          | 2,09 | 36559              | 6,89 |
| 3,60    | 70      | 39      | 10 | 10704          | 1,05 |                    |      | 7,10    | 109     | 69      | 10 | 11175          | 3,23 |                    |      |
| 3,70    | 70      | 39      | 10 | 10705          | 1,05 |                    |      | 7,20    | 109     | 69      | 10 | 13066          | 3,23 |                    |      |
| 3,75    | 70      | 39      | 10 | 10708          | 0,91 |                    |      | 7,25    | 109     | 69      | 10 | 11184          | 2,64 |                    |      |
| 3,80    | 75      | 43      | 10 | 10710          | 1,10 |                    |      | 7,30    | 109     | 69      | 10 | 11190          | 3,23 |                    |      |
| 3,90    | 75      | 43      | 10 | 10719          | 1,10 |                    |      | 7,40    | 109     | 69      | 10 | 11202          | 3,23 |                    |      |
| 4,00    | 75      | 43      | 10 | 10770          | 0,87 | 32572              | 2,60 | 7,50    | 109     | 69      | 10 | 11217          | 2,19 | 37630              | 6,99 |
| 4,10    | 75      | 43      | 10 | 10774          | 0,97 |                    |      | 7,60    | 117     | 75      | 10 | 14362          | 3,81 |                    |      |
| 4,20    | 75      | 43      | 10 | 10776          | 0,97 | 36557              | 2,69 | 7,70    | 117     | 75      | 10 | 11226          | 3,81 |                    |      |
| 4,25    | 75      | 43      | 10 | 10777          | 0,97 |                    |      | 7,75    | 117     | 75      | 10 | 11229          | 2,94 |                    |      |
| 4,30    | 80      | 47      | 10 | 10779          | 1,30 |                    |      | 7,80    | 117     | 75      | 10 | 11230          | 3,85 |                    |      |
| 4,40    | 80      | 47      | 10 | 10780          | 1,30 |                    |      | 7,90    | 117     | 75      | 10 | 11251          | 3,85 |                    |      |
| 4,50    | 80      | 47      | 10 | 10782          | 1,00 | 37627              | 2,73 | 8,00    | 117     | 75      | 10 | 11268          | 2,51 | 36560              | 7,31 |



Ref. **1013****BROCA MANGO CILÍNDRICO HSS SPEED POINT**

Speed Point HSS Straight Shank Twist Drill

Foret Queue Cylindrique HSS Speed Point

no  
ve  
dad  
new

| Ø<br>mm | L<br>mm | I<br>mm |  | Nº Art.<br>HSS | €    | Nº Art.<br>TIALSIN | €    | Ø<br>mm | L<br>mm | I<br>mm |  | Nº Art.<br>HSS | €     | Nº Art.<br>TIALSIN | €     |
|---------|---------|---------|-----------------------------------------------------------------------------------|----------------|------|--------------------|------|---------|---------|---------|------------------------------------------------------------------------------------|----------------|-------|--------------------|-------|
| 8,10    | 117     | 75      | 5                                                                                 | 11269          | 3,92 |                    |      | 9,90    | 133     | 87      | 5                                                                                  | 11323          | 6,11  |                    |       |
| 8,20    | 117     | 75      | 5                                                                                 | 11287          | 3,92 |                    |      | 10,00   | 133     | 87      | 5                                                                                  | 11324          | 3,87  | 36147              | 9,43  |
| 8,25    | 117     | 75      | 5                                                                                 | 11290          | 2,94 |                    |      | 10,10   | 133     | 87      | 5                                                                                  | 22341          | 5,20  |                    |       |
| 8,30    | 117     | 75      | 5                                                                                 | 11297          | 4,10 |                    |      | 10,20   | 133     | 87      | 5                                                                                  | 17648          | 4,83  | 37633              | 15,65 |
| 8,40    | 117     | 75      | 5                                                                                 | 11302          | 4,10 |                    |      | 10,30   | 133     | 87      | 5                                                                                  | 17506          | 6,07  |                    |       |
| 8,50    | 117     | 75      | 5                                                                                 | 11303          | 2,72 | 37498              | 8,27 | 10,50   | 133     | 87      | 5                                                                                  | 17613          | 4,83  | 38088              | 15,65 |
| 8,60    | 125     | 81      | 5                                                                                 | 11304          | 5,15 |                    |      | 10,70   | 142     | 94      | 5                                                                                  | 22342          | 6,66  |                    |       |
| 8,70    | 125     | 81      | 5                                                                                 | 11305          | 5,15 |                    |      | 11,00   | 142     | 94      | 5                                                                                  | 13783          | 5,64  | 37635              | 16,45 |
| 8,75    | 125     | 81      | 5                                                                                 | 11306          | 3,95 |                    |      | 11,50   | 142     | 94      | 5                                                                                  | 17609          | 6,04  | 37636              | 16,85 |
| 8,80    | 125     | 81      | 5                                                                                 | 11307          | 5,18 |                    |      | 11,70   | 142     | 94      | 5                                                                                  | 19657          | 7,40  |                    |       |
| 8,90    | 125     | 81      | 5                                                                                 | 11308          | 5,18 |                    |      | 12,00   | 151     | 101     | 5                                                                                  | 17611          | 6,72  | 37637              | 17,54 |
| 9,00    | 125     | 81      | 5                                                                                 | 11310          | 3,31 | 37631              | 8,87 | 12,30   | 151     | 101     | 5                                                                                  | 22343          | 8,89  |                    |       |
| 9,10    | 125     | 81      | 5                                                                                 | 14378          | 5,20 |                    |      | 12,50   | 151     | 101     | 5                                                                                  | 17615          | 7,36  | 37638              | 21,00 |
| 9,20    | 125     | 81      | 5                                                                                 | 14304          | 5,20 |                    |      | 12,70   | 151     | 101     | 5                                                                                  | 17081          | 9,24  |                    |       |
| 9,25    | 125     | 81      | 5                                                                                 | 11313          | 4,00 |                    |      | 13,00   | 151     | 101     | 5                                                                                  | 16556          | 7,64  | 36556              | 21,28 |
| 9,30    | 125     | 81      | 5                                                                                 | 14305          | 4,84 |                    |      | 13,50   | 160     | 108     | 1                                                                                  | 22833          | 10,82 |                    |       |
| 9,40    | 125     | 81      | 5                                                                                 | 13007          | 4,84 |                    |      | 14,00   | 160     | 108     | 1                                                                                  | 19224          | 11,61 |                    |       |
| 9,50    | 125     | 81      | 5                                                                                 | 11317          | 3,60 | 37632              | 9,16 | 14,50   | 169     | 114     | 1                                                                                  | 24941          | 12,48 |                    |       |
| 9,60    | 133     | 87      | 5                                                                                 | 11318          | 6,20 |                    |      | 15,00   | 169     | 114     | 1                                                                                  | 19227          | 12,63 |                    |       |
| 9,70    | 133     | 87      | 5                                                                                 | 13440          | 6,20 |                    |      | 16,00   | 178     | 120     | 1                                                                                  | 22306          | 15,39 |                    |       |
| 9,75    | 133     | 87      | 5                                                                                 | 11321          | 4,52 |                    |      |         |         |         |                                                                                    |                |       |                    |       |
| 9,80    | 133     | 87      | 5                                                                                 | 11322          | 6,11 |                    |      |         |         |         |                                                                                    |                |       |                    |       |



# Cabinet 1013

## BROCA MANGO CILÍNDRICO HSS SPEED POINT

Speed Point HSS Straight Shank Twist Drill

Foret Queue Cylindrique HSS Speed Point



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

Nº Art. 55443: **669,05 €**

Ref. **1002**

## BROCA MANGO CILÍNDRICO HSS SPEED POINT

Speed Point HSS Straight Shank Twist Drill

Foret Queue Cylindrique HSS Speed Point



**SPEED POINT**

HSS

DIN  
338 N



Chapa  
Sheets  
Tôle

Aceros <850 N/mm² Steel

Fundición / Cast Iron / Fonte

Aluminio / Aluminium



| Ø<br>mm | L<br>mm | I<br>mm |   | Nº Art. | €           |
|---------|---------|---------|---|---------|-------------|
| 1,00    | 34      | 12      | 2 | 24778   | <b>2,13</b> |
| 1,50    | 40      | 18      | 2 | 16516   | <b>1,59</b> |
| 2,00    | 49      | 24      | 2 | 24779   | <b>1,51</b> |
| 2,50    | 57      | 30      | 2 | 24780   | <b>1,70</b> |
| 3,00    | 61      | 33      | 2 | 24781   | <b>1,51</b> |
| 3,25    | 65      | 36      | 2 | 24782   | <b>1,72</b> |
| 3,30    | 65      | 36      | 2 | 39913   | <b>1,72</b> |
| 3,50    | 70      | 39      | 2 | 24783   | <b>1,70</b> |
| 4,00    | 75      | 43      | 2 | 24784   | <b>1,92</b> |
| 4,20    | 75      | 43      | 1 | 39914   | <b>1,06</b> |

| Ø<br>mm | L<br>mm | I<br>mm |   | Nº Art. | €           |
|---------|---------|---------|---|---------|-------------|
| 4,25    | 75      | 43      | 1 | 24785   | <b>1,06</b> |
| 4,50    | 80      | 47      | 1 | 24786   | <b>1,10</b> |
| 5,00    | 86      | 52      | 1 | 24787   | <b>1,19</b> |
| 5,50    | 93      | 57      | 1 | 24788   | <b>1,58</b> |
| 6,00    | 93      | 57      | 1 | 24789   | <b>1,62</b> |
| 6,50    | 101     | 63      | 1 | 24790   | <b>1,82</b> |
| 6,80    | 109     | 69      | 1 | 39915   | <b>2,22</b> |
| 7,00    | 109     | 69      | 1 | 24791   | <b>2,22</b> |
| 7,50    | 109     | 69      | 1 | 24792   | <b>2,32</b> |
| 8,00    | 117     | 75      | 1 | 24793   | <b>2,66</b> |

| Ø<br>mm | L<br>mm | I<br>mm |   | Nº Art. | €           |
|---------|---------|---------|---|---------|-------------|
| 8,50    | 117     | 75      | 1 | 24794   | <b>2,88</b> |
| 9,00    | 125     | 81      | 1 | 24795   | <b>3,51</b> |
| 10,00   | 133     | 87      | 1 | 24796   | <b>3,99</b> |
| 10,20   | 133     | 87      | 1 | 39916   | <b>4,98</b> |
| 11,00   | 142     | 94      | 1 | 24797   | <b>5,80</b> |
| 12,00   | 151     | 101     | 1 | 24798   | <b>6,91</b> |
| 13,00   | 151     | 101     | 1 | 24799   | <b>7,88</b> |

Display  
**17**

## BROCA MANGO CILÍNDRICO HSS SPEED POINT

Speed Point HSS Straight Shank Twist Drill

Foret Queue Cylindrique HSS Speed Point



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

Ref. 4995 - Nº Art. 22492: **399,19 €**

## Display 47

no  
ve  
dad  
new



## BROCA M. CILÍNDRICO HSS SPEED POINT + PREVIOS ROSCADO

Speed Point HSS Straight Shank Twist Drill + 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  | 6,8 | 7   | 7,5 |   |     |
| Pcs | 10   | 5   | 5  | 5   | 5    | 10 | 5    | 5   | 5   | 5   |   |     |
| Ø   | 1    | 1,5 | 2  | 2,5 | 3    | 3  | 3,25 | 3,3 | 3,5 | 4   | 4 | 4,2 |
| Pcs | 10   | 10  | 10 | 5   | 5    | 5  | 10   | 5   | 10  | 5   | 5 | 5   |

Ref. 4995 - N° Art. 55620: **372,13 €**

## Sets 1013

## BROCA MANGO CILÍNDRICO HSS METAL SPEED POINT

Speed Point METAL HSS Straight Shank Twist Drill

Foret Queue Cylindrique HSS METAL Speed Point

Ref. **1462**



| Cont. Ø                         | N° Art. | €           |
|---------------------------------|---------|-------------|
| 6 Pcs: 2 - 3 - 4 - 5 - 6 - 8 mm | 25365   | <b>8,89</b> |

Ref. **1466**



| Cont. Ø                 | N° Art. | €            |
|-------------------------|---------|--------------|
| 19 Pcs: 1 - 10 x 0,5 mm | 18808   | <b>34,85</b> |

Ref. **1456**



| Cont. Ø                 | N° Art. | €            |
|-------------------------|---------|--------------|
| 25 Pcs: 1 - 13 x 0,5 mm | 18807   | <b>74,22</b> |

Ref. **1470**



| Cont. Ø                                                        | N° Art. | €             |
|----------------------------------------------------------------|---------|---------------|
| 170 Pcs: 1-10 x 0,5 mm<br>Ø 1-8: 10 pcs/Ø<br>Ø 8,5-10: 5 pcs/Ø | 56677   | <b>264,85</b> |

| Cont. Ø                                                                       | N° Art. | €             |
|-------------------------------------------------------------------------------|---------|---------------|
| 220 Pcs:<br>1-13 x 0,5 + 3,3 + 4,2 mm<br>Ø 1-8: 10 pcs/Ø<br>Ø 8,5-13: 5 pcs/Ø | 56679   | <b>482,34</b> |

Ref. **1466**



| Cont. Ø                 | N° Art. | €            |
|-------------------------|---------|--------------|
| 19 Pcs: 1 - 10 x 0,5 mm | 38833   | <b>94,29</b> |

Ref. **1456**



| Cont. Ø                 | N° Art. | €             |
|-------------------------|---------|---------------|
| 25 Pcs: 1 - 13 x 0,5 mm | 38832   | <b>203,06</b> |

TIALSIN

TIALSIN



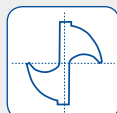
Ref. **1007****BROCA MANGO REBAJADO HSS**

HSS Reduced Shank Twist Drill

Foret Queue Reduit HSS



HSS

DIN  
338 N

Aceros &lt;850 N/mm² Steel

Fundición / Cast Iron / Fonte

Aluminio / Aluminium



| Ø<br>mm | d<br>mm | L<br>mm | l<br>mm |   | Nº Art. | €     |
|---------|---------|---------|---------|---|---------|-------|
| 10,50   | 10,00   | 133     | 87      | 1 | 15976   | 6,42  |
| 11,00   | 10,00   | 142     | 94      | 1 | 15977   | 7,26  |
| 11,50   | 10,00   | 142     | 94      | 1 | 15978   | 7,68  |
| 12,00   | 10,00   | 151     | 101     | 1 | 15979   | 8,37  |
| 12,50   | 10,00   | 151     | 101     | 1 | 15980   | 9,08  |
| 13,00   | 10,00   | 151     | 101     | 1 | 15981   | 9,33  |
| 13,50   | 12,70   | 160     | 108     | 1 | 15982   | 12,62 |
| 14,00   | 12,70   | 160     | 108     | 1 | 15984   | 13,40 |
| 14,50   | 12,70   | 169     | 114     | 1 | 15985   | 14,31 |
| 15,00   | 12,70   | 169     | 114     | 1 | 15987   | 14,46 |
| 15,50   | 12,70   | 178     | 120     | 1 | 15988   | 16,67 |
| 16,00   | 12,70   | 178     | 120     | 1 | 15989   | 17,29 |
| 16,75   | 12,70   | 184     | 125     | 1 | 15990   | 19,39 |
| 17,00   | 12,70   | 184     | 125     | 1 | 15991   | 19,39 |

| Ø<br>mm | d<br>mm | L<br>mm | l<br>mm |   | Nº Art. | €     |
|---------|---------|---------|---------|---|---------|-------|
| 17,50   | 12,70   | 191     | 130     | 1 | 15992   | 22,06 |
| 18,00   | 12,70   | 191     | 130     | 1 | 15993   | 23,23 |
| 18,50   | 12,70   | 198     | 135     | 1 | 15994   | 25,62 |
| 19,00   | 12,70   | 198     | 135     | 1 | 15995   | 25,62 |
| 19,50   | 12,70   | 205     | 140     | 1 | 15996   | 27,92 |
| 20,00   | 12,70   | 205     | 140     | 1 | 15997   | 32,17 |
| 21,00   | 12,70   | 205     | 145     | 1 | 17071   | 34,03 |
| 22,00   | 12,70   | 210     | 150     | 1 | 17072   | 37,53 |
| 23,00   | 12,70   | 210     | 150     | 1 | 36364   | 41,06 |
| 24,00   | 12,70   | 220     | 160     | 1 | 36365   | 45,30 |
| 25,00   | 12,70   | 220     | 160     | 1 | 36366   | 49,40 |

Display  
**18****BROCA MANGO REBAJADO HSS**

HSS Reduced Shank Twist Drill

Foret Queue Reduit 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: **575,02 €**

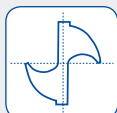
Ref. **1012****BROCA MANGO CILÍNDRICO HSS**

HSS Straight Shank Twist Drill

Foret Queue Cylindrique HSS



HSS

DIN  
338 H

Cobre / Copper / Cuivre

Latón / Brass / Laiton

Bronce / Bronze



| Ø<br>mm | L<br>mm | I<br>mm |  | Nº Art. | €           |
|---------|---------|---------|-----------------------------------------------------------------------------------|---------|-------------|
| 1,00    | 34      | 12      | 10                                                                                | 10586   | <b>2,19</b> |
| 1,25    | 38      | 16      | 10                                                                                | 27590   | <b>2,47</b> |
| 1,50    | 40      | 18      | 10                                                                                | 10589   | <b>2,17</b> |
| 2,00    | 49      | 24      | 10                                                                                | 10592   | <b>1,96</b> |
| 2,25    | 53      | 27      | 10                                                                                | 18908   | <b>2,29</b> |
| 2,50    | 57      | 30      | 10                                                                                | 10595   | <b>1,98</b> |
| 2,75    | 61      | 33      | 10                                                                                | 18917   | <b>2,69</b> |
| 3,00    | 61      | 33      | 10                                                                                | 10598   | <b>2,19</b> |
| 3,25    | 65      | 36      | 10                                                                                | 18932   | <b>2,69</b> |
| 3,50    | 70      | 39      | 10                                                                                | 10601   | <b>2,35</b> |
| 3,75    | 70      | 39      | 10                                                                                | 18941   | <b>3,49</b> |
| 4,00    | 75      | 43      | 10                                                                                | 10604   | <b>2,56</b> |
| 4,25    | 75      | 43      | 10                                                                                | 18953   | <b>3,80</b> |
| 4,50    | 80      | 47      | 10                                                                                | 10607   | <b>3,13</b> |
| 4,75    | 80      | 47      | 10                                                                                | 18968   | <b>4,27</b> |
| 5,00    | 86      | 52      | 10                                                                                | 10610   | <b>3,39</b> |
| 5,25    | 86      | 52      | 10                                                                                | 18977   | <b>5,11</b> |
| 5,50    | 93      | 57      | 10                                                                                | 10613   | <b>4,12</b> |
| 5,75    | 93      | 57      | 10                                                                                | 18980   | <b>6,26</b> |
| 6,00    | 93      | 57      | 10                                                                                | 10616   | <b>4,46</b> |
| 6,25    | 101     | 63      | 10                                                                                | 18986   | <b>6,26</b> |
| 6,50    | 101     | 63      | 10                                                                                | 10619   | <b>4,97</b> |
| 6,75    | 109     | 69      | 10                                                                                | 18998   | <b>7,54</b> |
| 7,00    | 109     | 69      | 10                                                                                | 10622   | <b>5,24</b> |

| Ø<br>mm | L<br>mm | I<br>mm |  | Nº Art. | €            |
|---------|---------|---------|-------------------------------------------------------------------------------------|---------|--------------|
| 7,25    | 109     | 69      | 10                                                                                  | 19013   | <b>9,98</b>  |
| 7,50    | 109     | 69      | 10                                                                                  | 10625   | <b>6,17</b>  |
| 8,00    | 117     | 75      | 10                                                                                  | 10628   | <b>6,56</b>  |
| 8,25    | 117     | 75      | 10                                                                                  | 19031   | <b>12,30</b> |
| 8,50    | 117     | 75      | 10                                                                                  | 10631   | <b>7,61</b>  |
| 9,00    | 125     | 81      | 10                                                                                  | 10634   | <b>8,01</b>  |
| 9,50    | 125     | 81      | 10                                                                                  | 10637   | <b>9,38</b>  |
| 10,00   | 133     | 87      | 10                                                                                  | 10640   | <b>9,78</b>  |
| 10,50   | 133     | 87      | 5                                                                                   | 10643   | <b>11,72</b> |
| 11,00   | 142     | 94      | 5                                                                                   | 10646   | <b>13,08</b> |
| 11,50   | 142     | 94      | 5                                                                                   | 10649   | <b>15,82</b> |
| 12,00   | 151     | 101     | 5                                                                                   | 10652   | <b>17,05</b> |
| 12,50   | 151     | 101     | 5                                                                                   | 10655   | <b>19,33</b> |
| 13,00   | 151     | 101     | 5                                                                                   | 10658   | <b>20,72</b> |
| 14,00   | 160     | 108     | 1                                                                                   | 18863   | <b>31,63</b> |
| 14,50   | 169     | 114     | 1                                                                                   | 46846   | <b>45,42</b> |
| 15,00   | 169     | 114     | 1                                                                                   | 54158   | <b>46,76</b> |
| 16,00   | 178     | 120     | 1                                                                                   | 46847   | <b>49,71</b> |
| 16,50   | 184     | 125     | 1                                                                                   | 46848   | <b>51,12</b> |
| 17,00   | 184     | 125     | 1                                                                                   | 46849   | <b>52,69</b> |
| 18,00   | 191     | 130     | 1                                                                                   | 54159   | <b>55,93</b> |
| 18,50   | 198     | 135     | 1                                                                                   | 46851   | <b>57,40</b> |
| 19,00   | 198     | 135     | 1                                                                                   | 46852   | <b>59,20</b> |
| 20,00   | 205     | 140     | 1                                                                                   | 46850   | <b>62,50</b> |

Ref. **1660**

## BROCA MANGO CILÍNDRICO HSS DOBLE

Double HSS Straight Shank Twist Drill

Foret Queue Cylindrique HSS Double



HSS

IZAR  
Std.



Chapa  
Sheets  
Tôle

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



| Ø<br>mm | L<br>mm | I<br>mm |    | Nº Art. | €    |
|---------|---------|---------|----|---------|------|
| 2,00    | 38      | 9       | 10 | 16028   | 1,69 |
| 2,20    | 40      | 9       | 10 | 27607   | 1,56 |
| 2,30    | 43      | 10      | 10 | 25604   | 2,01 |
| 2,50    | 43      | 10      | 10 | 16034   | 1,68 |
| 2,80    | 46      | 13      | 10 | 16040   | 1,58 |
| 2,90    | 46      | 13      | 10 | 16043   | 1,58 |
| 3,00    | 46      | 13      | 10 | 16046   | 1,47 |
| 3,10    | 52      | 14      | 10 | 16049   | 1,47 |
| 3,20    | 52      | 14      | 10 | 16052   | 1,47 |
| 3,25    | 52      | 14      | 10 | 16055   | 1,47 |
| 3,30    | 52      | 14      | 10 | 16058   | 1,47 |
| 3,40    | 52      | 14      | 10 | 16061   | 1,64 |
| 3,50    | 52      | 14      | 10 | 16064   | 1,64 |
| 3,70    | 55      | 15      | 10 | 16067   | 1,82 |
| 3,75    | 55      | 15      | 10 | 16070   | 1,87 |
| 3,80    | 55      | 15      | 10 | 16073   | 1,82 |
| 4,00    | 55      | 15      | 10 | 16076   | 1,68 |
| 4,10    | 58      | 16      | 10 | 16079   | 1,82 |
| 4,20    | 58      | 16      | 10 | 16082   | 1,82 |
| 4,25    | 58      | 16      | 10 | 16085   | 1,82 |

| Ø<br>mm | L<br>mm | I<br>mm |    | Nº Art. | €    |
|---------|---------|---------|----|---------|------|
| 4,50    | 58      | 16      | 10 | 16088   | 1,87 |
| 4,75    | 62      | 18      | 10 | 16094   | 3,03 |
| 4,80    | 62      | 18      | 10 | 16097   | 2,07 |
| 4,90    | 62      | 18      | 10 | 16100   | 2,07 |
| 5,00    | 62      | 18      | 10 | 16103   | 2,14 |
| 5,10    | 66      | 19      | 10 | 16106   | 2,92 |
| 5,20    | 66      | 19      | 10 | 16109   | 2,92 |
| 5,25    | 66      | 19      | 10 | 16112   | 3,03 |
| 5,50    | 66      | 19      | 10 | 16115   | 2,58 |
| 5,70    | 66      | 19      | 10 | 25634   | 3,44 |
| 5,75    | 66      | 19      | 10 | 16121   | 3,58 |
| 6,00    | 66      | 19      | 10 | 16127   | 2,90 |
| 6,50    | 70      | 21      | 10 | 16133   | 3,20 |
| 7,00    | 74      | 24      | 10 | 16136   | 3,82 |
| 7,40    | 74      | 24      | 10 | 25664   | 5,26 |
| 7,50    | 74      | 24      | 10 | 16139   | 3,91 |
| 8,00    | 79      | 25      | 10 | 16142   | 4,68 |
| 9,00    | 84      | 25      | 10 | 16148   | 6,25 |
| 10,00   | 89      | 27      | 10 | 16154   | 6,74 |

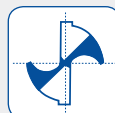
Ref. **1050****BROCA MANGO CILÍNDRICO HSS EXTRA CORTA**

HSS Straight Shank Stub Twist Drill

Foret Queue Cylindrique HSS Extra-Courte



HSS

DIN  
1897 NSerie Extra Corta  
Stub Series  
Série Extra-Courte

Aceros &lt;850 N/mm² Steel

Fundición / Cast Iron / Fonte

Aluminio / Aluminium



| Ø<br>mm | L<br>mm | I<br>mm |    | Nº Art. | €    |
|---------|---------|---------|----|---------|------|
| 1,00    | 26      | 6       | 10 | 20606   | 0,97 |
| 1,25    | 30      | 8       | 10 | 20615   | 0,86 |
| 1,50    | 32      | 9       | 10 | 12302   | 0,86 |
| 1,60    | 34      | 10      | 10 | 12305   | 0,98 |
| 1,75    | 36      | 11      | 10 | 12311   | 0,97 |
| 1,80    | 38      | 12      | 10 | 12314   | 0,98 |
| 2,00    | 38      | 12      | 10 | 12320   | 0,85 |
| 2,10    | 40      | 13      | 10 | 12323   | 0,98 |
| 2,20    | 40      | 13      | 10 | 12326   | 0,98 |
| 2,25    | 40      | 13      | 10 | 12329   | 0,85 |
| 2,30    | 40      | 13      | 10 | 12332   | 0,98 |
| 2,40    | 43      | 14      | 10 | 12335   | 0,98 |
| 2,50    | 43      | 14      | 10 | 12338   | 0,75 |
| 2,60    | 43      | 14      | 10 | 12341   | 0,91 |
| 2,70    | 46      | 16      | 10 | 12344   | 0,91 |
| 2,75    | 46      | 16      | 10 | 12347   | 0,80 |
| 2,80    | 46      | 16      | 10 | 12350   | 0,92 |
| 2,90    | 46      | 16      | 10 | 12353   | 0,92 |
| 3,00    | 46      | 16      | 10 | 12356   | 0,80 |
| 3,10    | 49      | 18      | 10 | 12359   | 0,86 |
| 3,20    | 49      | 18      | 10 | 12362   | 0,86 |
| 3,25    | 49      | 18      | 10 | 12365   | 0,86 |
| 3,30    | 49      | 18      | 10 | 12368   | 0,86 |
| 3,40    | 52      | 20      | 10 | 12371   | 0,98 |
| 3,50    | 52      | 20      | 10 | 12374   | 0,86 |
| 3,60    | 52      | 20      | 10 | 12377   | 1,08 |
| 3,70    | 52      | 20      | 10 | 12380   | 1,08 |
| 3,75    | 52      | 20      | 10 | 12383   | 0,95 |
| 3,80    | 55      | 22      | 10 | 12386   | 1,08 |
| 3,90    | 55      | 22      | 10 | 12389   | 1,08 |
| 4,00    | 55      | 22      | 10 | 12392   | 0,95 |
| 4,10    | 55      | 22      | 10 | 12395   | 1,12 |
| 4,20    | 55      | 22      | 10 | 12398   | 1,12 |
| 4,25    | 55      | 22      | 10 | 12401   | 1,12 |
| 4,30    | 58      | 24      | 10 | 12404   | 1,29 |
| 4,40    | 58      | 24      | 10 | 12407   | 1,29 |
| 4,50    | 58      | 24      | 10 | 12410   | 1,12 |
| 4,60    | 58      | 24      | 10 | 20636   | 1,45 |
| 4,70    | 58      | 24      | 10 | 20639   | 1,45 |
| 4,75    | 58      | 24      | 10 | 12413   | 1,25 |
| 4,80    | 62      | 26      | 10 | 12416   | 1,45 |
| 4,90    | 62      | 26      | 10 | 12419   | 1,45 |
| 5,00    | 62      | 26      | 10 | 12422   | 1,25 |
| 5,10    | 62      | 26      | 10 | 12425   | 1,60 |

| Ø<br>mm | L<br>mm | I<br>mm |    | Nº Art. | €    |
|---------|---------|---------|----|---------|------|
| 5,20    | 62      | 26      | 10 | 12428   | 1,59 |
| 5,25    | 62      | 26      | 10 | 12431   | 1,38 |
| 5,30    | 62      | 26      | 10 | 12434   | 1,61 |
| 5,40    | 66      | 28      | 10 | 12437   | 1,61 |
| 5,50    | 66      | 28      | 10 | 12440   | 1,38 |
| 5,60    | 66      | 28      | 10 | 12443   | 1,84 |
| 5,70    | 66      | 28      | 10 | 12446   | 1,84 |
| 5,75    | 66      | 28      | 10 | 12449   | 1,58 |
| 5,80    | 66      | 28      | 10 | 12452   | 1,84 |
| 5,90    | 66      | 28      | 10 | 12455   | 1,84 |
| 6,00    | 66      | 28      | 10 | 12458   | 1,58 |
| 6,10    | 70      | 31      | 10 | 20651   | 2,16 |
| 6,20    | 70      | 31      | 10 | 20654   | 2,16 |
| 6,25    | 70      | 31      | 10 | 12461   | 1,88 |
| 6,30    | 70      | 31      | 10 | 20657   | 2,16 |
| 6,40    | 70      | 31      | 10 | 20663   | 2,16 |
| 6,50    | 70      | 31      | 10 | 12464   | 1,88 |
| 6,60    | 70      | 31      | 10 | 20666   | 2,52 |
| 6,70    | 70      | 31      | 10 | 20669   | 2,52 |
| 6,75    | 74      | 34      | 10 | 12467   | 2,18 |
| 6,80    | 74      | 34      | 10 | 20672   | 2,18 |
| 7,00    | 74      | 34      | 10 | 12470   | 2,18 |
| 7,20    | 74      | 34      | 10 | 20681   | 2,81 |
| 7,25    | 74      | 34      | 10 | 27317   | 2,47 |
| 7,40    | 74      | 34      | 10 | 30591   | 2,72 |
| 7,50    | 74      | 34      | 10 | 12473   | 2,47 |
| 7,75    | 79      | 37      | 10 | 12476   | 2,72 |
| 7,80    | 79      | 37      | 10 | 20696   | 3,12 |
| 8,00    | 79      | 37      | 10 | 12479   | 2,72 |
| 8,25    | 79      | 37      | 10 | 12482   | 3,23 |
| 8,50    | 79      | 37      | 10 | 12485   | 3,23 |
| 8,75    | 84      | 40      | 10 | 12488   | 3,53 |
| 9,00    | 84      | 40      | 10 | 12491   | 3,53 |
| 9,10    | 84      | 40      | 10 | 30592   | 4,41 |
| 9,25    | 84      | 40      | 10 | 12494   | 3,95 |
| 9,50    | 84      | 40      | 10 | 12497   | 3,95 |
| 9,75    | 89      | 43      | 10 | 27334   | 4,41 |
| 10,00   | 89      | 43      | 10 | 12500   | 4,41 |
| 10,20   | 89      | 43      | 1  | 20756   | 4,99 |
| 10,25   | 89      | 43      | 1  | 12503   | 5,54 |
| 10,50   | 89      | 43      | 1  | 12506   | 4,99 |
| 11,00   | 95      | 47      | 1  | 12512   | 5,54 |
| 11,10   | 95      | 47      | 1  | 30593   | 6,50 |
| 11,25   | 95      | 47      | 1  | 12515   | 6,16 |

| Ø<br>mm | L<br>mm | I<br>mm |   | Nº Art. | €     |
|---------|---------|---------|---|---------|-------|
| 11,50   | 95      | 47      | 1 | 12518   | 6,16  |
| 12,00   | 102     | 51      | 1 | 12527   | 6,50  |
| 12,25   | 102     | 51      | 1 | 12530   | 7,32  |
| 12,50   | 102     | 51      | 1 | 12533   | 7,32  |
| 12,70   | 102     | 51      | 1 | 20813   | 7,70  |
| 13,00   | 102     | 51      | 1 | 12539   | 8,00  |
| 13,50   | 107     | 54      | 1 | 12545   | 10,16 |
| 14,00   | 107     | 54      | 1 | 12551   | 10,98 |
| 14,50   | 111     | 56      | 1 | 12554   | 12,54 |
| 15,00   | 111     | 56      | 1 | 12557   | 14,33 |
| 15,50   | 115     | 58      | 1 | 12560   | 17,27 |
| 16,00   | 115     | 58      | 1 | 12563   | 17,27 |
| 16,50   | 119     | 60      | 1 | 12566   | 20,31 |
| 17,00   | 119     | 60      | 1 | 12569   | 20,31 |
| 17,50   | 123     | 62      | 1 | 12572   | 22,63 |
| 18,00   | 123     | 62      | 1 | 12575   | 22,63 |
| 18,50   | 127     | 64      | 1 | 12578   | 25,20 |
| 19,00   | 127     | 64      | 1 | 12581   | 25,20 |
| 19,50   | 131     | 66      | 1 | 12584   | 30,22 |
| 20,00   | 131     | 66      | 1 | 12587   | 30,22 |

Ref. **1476**

| Cont. Ø                  | Nº Art. | €     |
|--------------------------|---------|-------|
| 19 Pcs: 1 - 10 x 0,50 mm | 11935   | 57,30 |



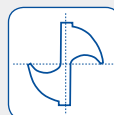
Ref. **1030****BROCA MANGO CILÍNDRICO HSS LARGA**

HSS Straight Shank Long Twist Drill

Foret Queue Cylindrique HSS Longue



HSS

DIN  
340 NSerie Larga  
Long Series  
Série Longue

Aceros &lt;850 N/mm² Steel

Fundición / Cast Iron / Fonte

Aluminio / Aluminium



| Ø<br>mm | L<br>mm | I<br>mm |    | Nº Art. | €    |
|---------|---------|---------|----|---------|------|
| 0,50    | 32      | 12      | 10 | 26656   | 4,65 |
| 0,60    | 35      | 15      | 10 | 26658   | 3,76 |
| 0,70    | 42      | 21      | 10 | 19467   | 3,76 |
| 0,80    | 46      | 25      | 10 | 24592   | 3,76 |
| 0,90    | 51      | 29      | 10 | 26659   | 3,76 |
| 1,00    | 56      | 33      | 10 | 11573   | 3,82 |
| 1,10    | 60      | 37      | 10 | 11576   | 3,71 |
| 1,20    | 65      | 41      | 10 | 11579   | 3,71 |
| 1,25    | 65      | 41      | 10 | 11582   | 3,84 |
| 1,30    | 65      | 41      | 10 | 11585   | 3,71 |
| 1,40    | 70      | 45      | 10 | 11588   | 3,71 |
| 1,50    | 70      | 45      | 10 | 11591   | 2,75 |
| 1,60    | 76      | 50      | 10 | 11594   | 3,71 |
| 1,70    | 76      | 50      | 10 | 11597   | 3,71 |
| 1,75    | 80      | 53      | 10 | 11600   | 3,08 |
| 1,80    | 80      | 53      | 10 | 11603   | 2,95 |
| 1,90    | 80      | 53      | 10 | 11606   | 2,95 |
| 2,00    | 85      | 56      | 10 | 11609   | 1,95 |
| 2,10    | 85      | 56      | 10 | 11612   | 2,95 |
| 2,20    | 90      | 59      | 10 | 11615   | 2,95 |
| 2,25    | 90      | 59      | 10 | 11618   | 2,37 |
| 2,30    | 90      | 59      | 10 | 11621   | 2,86 |
| 2,40    | 95      | 62      | 10 | 11624   | 2,86 |
| 2,50    | 95      | 62      | 10 | 11627   | 2,16 |
| 2,60    | 95      | 62      | 10 | 11630   | 2,86 |
| 2,70    | 100     | 66      | 10 | 11633   | 2,86 |
| 2,75    | 100     | 66      | 10 | 11636   | 2,96 |
| 2,80    | 100     | 66      | 10 | 11639   | 2,86 |
| 2,90    | 100     | 66      | 10 | 11642   | 2,86 |
| 3,00    | 100     | 66      | 10 | 11645   | 2,00 |
| 3,10    | 106     | 69      | 10 | 11648   | 2,22 |
| 3,20    | 106     | 69      | 10 | 11651   | 2,22 |
| 3,25    | 106     | 69      | 10 | 11654   | 2,22 |
| 3,30    | 106     | 69      | 10 | 11657   | 2,22 |
| 3,40    | 112     | 73      | 10 | 11660   | 2,86 |
| 3,50    | 112     | 73      | 10 | 11663   | 2,10 |
| 3,60    | 112     | 73      | 10 | 11666   | 2,86 |
| 3,70    | 112     | 73      | 10 | 11669   | 2,86 |
| 3,75    | 112     | 73      | 10 | 11672   | 2,96 |
| 3,80    | 119     | 78      | 10 | 11675   | 3,55 |
| 3,90    | 119     | 78      | 10 | 11678   | 3,55 |
| 4,00    | 119     | 78      | 10 | 11681   | 2,28 |
| 4,10    | 119     | 78      | 10 | 11684   | 2,98 |
| 4,20    | 119     | 78      | 10 | 11687   | 2,98 |

| Ø<br>mm | L<br>mm | I<br>mm |    | Nº Art. | €    |
|---------|---------|---------|----|---------|------|
| 4,25    | 119     | 78      | 10 | 11690   | 2,98 |
| 4,30    | 126     | 82      | 10 | 11693   | 3,85 |
| 4,40    | 126     | 82      | 10 | 11696   | 3,85 |
| 4,50    | 126     | 82      | 10 | 11699   | 2,72 |
| 4,60    | 126     | 82      | 10 | 11702   | 3,85 |
| 4,70    | 126     | 82      | 10 | 19955   | 3,85 |
| 4,75    | 126     | 82      | 10 | 11705   | 4,01 |
| 4,80    | 132     | 87      | 10 | 11708   | 4,45 |
| 4,90    | 132     | 87      | 10 | 11711   | 4,45 |
| 5,00    | 132     | 87      | 10 | 11714   | 2,91 |
| 5,10    | 132     | 87      | 10 | 11717   | 4,45 |
| 5,20    | 132     | 87      | 10 | 11720   | 4,45 |
| 5,25    | 132     | 87      | 10 | 11723   | 4,62 |
| 5,30    | 132     | 87      | 10 | 11726   | 4,84 |
| 5,40    | 139     | 91      | 10 | 11729   | 4,84 |
| 5,50    | 139     | 91      | 10 | 11732   | 3,84 |
| 5,60    | 139     | 91      | 10 | 11735   | 4,84 |
| 5,70    | 139     | 91      | 10 | 11738   | 4,84 |
| 5,75    | 139     | 91      | 10 | 11741   | 5,03 |
| 5,80    | 139     | 91      | 10 | 11744   | 5,32 |
| 5,90    | 139     | 91      | 10 | 11747   | 5,32 |
| 6,00    | 139     | 91      | 10 | 11750   | 3,56 |
| 6,10    | 148     | 97      | 10 | 11753   | 5,32 |
| 6,20    | 148     | 97      | 10 | 11756   | 5,32 |
| 6,25    | 148     | 97      | 10 | 11759   | 5,52 |
| 6,30    | 148     | 97      | 10 | 11762   | 5,38 |
| 6,40    | 148     | 97      | 10 | 11765   | 5,38 |
| 6,50    | 148     | 97      | 10 | 11768   | 4,56 |
| 6,60    | 148     | 97      | 10 | 11771   | 5,38 |
| 6,70    | 148     | 97      | 10 | 11774   | 5,38 |
| 6,75    | 156     | 102     | 10 | 11777   | 5,58 |
| 6,80    | 156     | 102     | 10 | 11780   | 5,58 |
| 6,90    | 156     | 102     | 10 | 11783   | 5,71 |
| 7,00    | 156     | 102     | 10 | 11786   | 5,31 |
| 7,10    | 156     | 102     | 10 | 11789   | 5,71 |
| 7,20    | 156     | 102     | 10 | 11792   | 5,71 |
| 7,25    | 156     | 102     | 10 | 11795   | 5,93 |
| 7,30    | 156     | 102     | 10 | 11798   | 5,83 |
| 7,40    | 156     | 102     | 10 | 11801   | 5,83 |
| 7,50    | 156     | 102     | 10 | 11804   | 5,66 |
| 7,60    | 165     | 109     | 10 | 11807   | 5,83 |
| 7,70    | 165     | 109     | 10 | 11810   | 5,83 |
| 7,75    | 165     | 109     | 10 | 11813   | 6,06 |
| 7,80    | 165     | 109     | 10 | 11816   | 6,52 |

Ref. **1030****BROCA MANGO CILÍNDRICO HSS LARGA**

HSS Straight Shank Long Twist Drill

Foret Queue Cylindrique HSS Longue



| Ø<br>mm | L<br>mm | I<br>mm |  | Nº Art. | €     | Ø<br>mm | L<br>mm | I<br>mm |  | Nº Art. | €     |
|---------|---------|---------|-----------------------------------------------------------------------------------|---------|-------|---------|---------|---------|-------------------------------------------------------------------------------------|---------|-------|
| 7,90    | 165     | 109     | 10                                                                                | 11819   | 6,52  | 11,80   | 195     | 128     | 1                                                                                   | 11960   | 16,75 |
| 8,00    | 165     | 109     | 10                                                                                | 11822   | 6,30  | 11,90   | 205     | 134     | 1                                                                                   | 11963   | 16,75 |
| 8,10    | 165     | 109     | 5                                                                                 | 11825   | 6,52  | 12,00   | 205     | 134     | 1                                                                                   | 11966   | 14,28 |
| 8,20    | 165     | 109     | 5                                                                                 | 11828   | 6,52  | 12,20   | 205     | 134     | 1                                                                                   | 11972   | 16,14 |
| 8,25    | 165     | 109     | 5                                                                                 | 11831   | 6,77  | 12,25   | 205     | 134     | 1                                                                                   | 11975   | 16,18 |
| 8,30    | 165     | 109     | 5                                                                                 | 11834   | 10,03 | 12,30   | 205     | 134     | 1                                                                                   | 11978   | 19,09 |
| 8,40    | 165     | 109     | 5                                                                                 | 11837   | 10,03 | 12,50   | 205     | 134     | 1                                                                                   | 11984   | 15,03 |
| 8,50    | 165     | 109     | 5                                                                                 | 11840   | 7,01  | 12,75   | 205     | 134     | 1                                                                                   | 11993   | 19,81 |
| 8,60    | 175     | 115     | 5                                                                                 | 11843   | 10,03 | 13,00   | 205     | 134     | 1                                                                                   | 12002   | 17,05 |
| 8,70    | 175     | 115     | 5                                                                                 | 11846   | 10,03 | 13,25   | 214     | 140     | 1                                                                                   | 12005   | 19,81 |
| 8,75    | 175     | 115     | 5                                                                                 | 11849   | 10,43 | 13,50   | 214     | 140     | 1                                                                                   | 12008   | 19,04 |
| 8,80    | 175     | 115     | 5                                                                                 | 11852   | 10,25 | 13,75   | 214     | 140     | 1                                                                                   | 12011   | 19,88 |
| 8,90    | 175     | 115     | 5                                                                                 | 11855   | 10,25 | 14,00   | 214     | 140     | 1                                                                                   | 12014   | 20,54 |
| 9,00    | 175     | 115     | 5                                                                                 | 11858   | 7,63  | 14,25   | 220     | 144     | 1                                                                                   | 12017   | 37,02 |
| 9,10    | 175     | 115     | 5                                                                                 | 11861   | 10,25 | 14,50   | 220     | 144     | 1                                                                                   | 12020   | 24,06 |
| 9,20    | 175     | 115     | 5                                                                                 | 11864   | 10,25 | 14,75   | 220     | 144     | 1                                                                                   | 12023   | 37,02 |
| 9,25    | 175     | 115     | 5                                                                                 | 11867   | 10,66 | 15,00   | 220     | 144     | 1                                                                                   | 12026   | 23,28 |
| 9,30    | 175     | 115     | 5                                                                                 | 11870   | 11,04 | 15,25   | 227     | 149     | 1                                                                                   | 12029   | 41,80 |
| 9,40    | 175     | 115     | 5                                                                                 | 11873   | 11,04 | 15,50   | 227     | 149     | 1                                                                                   | 12032   | 34,55 |
| 9,50    | 175     | 115     | 5                                                                                 | 11876   | 7,71  | 15,75   | 227     | 149     | 1                                                                                   | 12035   | 41,80 |
| 9,60    | 184     | 121     | 5                                                                                 | 11879   | 11,04 | 16,00   | 227     | 149     | 1                                                                                   | 12038   | 27,09 |
| 9,70    | 184     | 121     | 5                                                                                 | 11882   | 11,04 | 16,25   | 235     | 154     | 1                                                                                   | 12041   | 46,12 |
| 9,75    | 184     | 121     | 5                                                                                 | 11885   | 11,45 | 16,50   | 235     | 154     | 1                                                                                   | 12044   | 32,05 |
| 9,80    | 184     | 121     | 5                                                                                 | 11888   | 11,04 | 16,75   | 235     | 154     | 1                                                                                   | 12047   | 46,12 |
| 9,90    | 184     | 121     | 5                                                                                 | 11891   | 11,04 | 17,00   | 235     | 154     | 1                                                                                   | 12050   | 32,19 |
| 10,00   | 184     | 121     | 5                                                                                 | 11894   | 8,34  | 17,25   | 241     | 158     | 1                                                                                   | 12053   | 53,04 |
| 10,20   | 184     | 121     | 1                                                                                 | 11900   | 11,27 | 17,50   | 241     | 158     | 1                                                                                   | 12056   | 47,59 |
| 10,25   | 184     | 121     | 1                                                                                 | 11903   | 10,43 | 17,75   | 241     | 158     | 1                                                                                   | 12059   | 61,83 |
| 10,50   | 184     | 121     | 1                                                                                 | 11912   | 11,27 | 18,00   | 241     | 158     | 1                                                                                   | 12062   | 33,56 |
| 10,75   | 195     | 128     | 1                                                                                 | 11921   | 11,45 | 18,25   | 241     | 158     | 1                                                                                   | 12065   | 72,84 |
| 10,80   | 195     | 128     | 1                                                                                 | 11924   | 14,33 | 18,50   | 247     | 162     | 1                                                                                   | 12068   | 51,98 |
| 11,00   | 195     | 128     | 1                                                                                 | 11930   | 12,53 | 19,00   | 247     | 162     | 1                                                                                   | 12074   | 42,07 |
| 11,10   | 195     | 128     | 1                                                                                 | 30588   | 16,75 | 19,50   | 254     | 166     | 1                                                                                   | 12080   | 80,92 |
| 11,25   | 195     | 128     | 1                                                                                 | 11939   | 14,89 | 19,75   | 254     | 166     | 1                                                                                   | 12083   | 91,40 |
| 11,50   | 195     | 128     | 1                                                                                 | 11948   | 12,77 | 20,00   | 254     | 166     | 1                                                                                   | 12086   | 47,22 |
| 11,75   | 195     | 128     | 1                                                                                 | 11957   | 16,75 |         |         |         |                                                                                     |         |       |

Ref. **1003****BROCA MANGO CILÍNDRICO HSS LARGA**HSS Straight Shank Long Twist Drill  
Foret Queue Cylindrique HSS Longue

HSS

DIN  
340 NSerie Larga  
Long Series  
Série Longue

118°

Aceros &lt;850 N/mm² Steel

Fundición / Cast Iron / Fonte

Aluminio / Aluminium



| Ø<br>mm | L<br>mm | I<br>mm |   | Nº Art. | €     |
|---------|---------|---------|---|---------|-------|
| 2,00    | 85      | 56      | 1 | 10572   | 2,23  |
| 2,50    | 95      | 62      | 1 | 10573   | 2,45  |
| 3,00    | 100     | 66      | 1 | 10581   | 2,28  |
| 3,25    | 106     | 69      | 1 | 10582   | 2,52  |
| 3,50    | 112     | 73      | 1 | 10584   | 2,30  |
| 4,00    | 119     | 78      | 1 | 10585   | 2,50  |
| 4,25    | 119     | 78      | 1 | 10591   | 3,27  |
| 4,50    | 126     | 82      | 1 | 10593   | 2,97  |
| 5,00    | 132     | 87      | 1 | 10596   | 3,19  |
| 5,50    | 139     | 91      | 1 | 10599   | 4,23  |
| 6,00    | 139     | 91      | 1 | 10602   | 3,92  |
| 6,50    | 148     | 97      | 1 | 10605   | 4,82  |
| 7,00    | 156     | 102     | 1 | 10608   | 5,64  |
| 7,50    | 156     | 102     | 1 | 10611   | 5,99  |
| 8,00    | 165     | 109     | 1 | 10614   | 6,70  |
| 8,50    | 165     | 109     | 1 | 10617   | 7,42  |
| 9,00    | 175     | 115     | 1 | 10620   | 8,06  |
| 10,00   | 184     | 121     | 1 | 10623   | 8,57  |
| 11,00   | 195     | 128     | 1 | 10629   | 12,88 |
| 12,00   | 205     | 134     | 1 | 10632   | 14,68 |
| 13,00   | 205     | 134     | 1 | 10635   | 17,55 |

Display  
**15****BROCA MANGO CILÍNDRICO HSS LARGA**HSS Straight Shank Long Twist Drill  
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   | 6,5 | 7 |
| Pcs | 3    | 2    | 5   | 3 | 2    | 3    | 3   | 2   | 5   | 5 |
| Ø   | 2    | 2,5  | 3   | 3 | 3,25 | 3,25 | 3,5 | 3,5 | 4   | 4 |
| Pcs | 5    | 5    | 3   | 2 | 3    | 2    | 3   | 2   | 3   | 2 |

Ref. 4995 - Nº Art. 22328: **428.96 €**

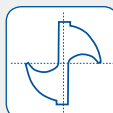
Ref. **1040****BROCA MANGO CILÍNDRICO HSS EXTRA LARGA**

METAL HSS Straight Shank Extra Long Twist Drill

Foret Queue Cylindrique HSS Extra-Longue



HSS

DIN  
1869 NSerie Extra Larga  
Extra Long Series  
Série Extra-Longue

Aceros &lt;850 N/mm² Steel

Fundición / Cast Iron / Fonte

Aluminio / Aluminium



| Ø<br>mm | L<br>mm | I<br>mm |  | Nº Art. | €     |
|---------|---------|---------|-----------------------------------------------------------------------------------|---------|-------|
| 2,00    | 125     | 85      | 1                                                                                 | 12158   | 9,84  |
| 2,50    | 140     | 95      | 1                                                                                 | 12161   | 10,29 |
| 3,00    | 150     | 100     | 1                                                                                 | 12164   | 10,66 |
| 3,00    | 190     | 136     | 1                                                                                 | 12167   | 12,30 |
| 3,50    | 165     | 115     | 1                                                                                 | 12170   | 12,02 |
| 3,50    | 210     | 145     | 1                                                                                 | 12173   | 13,85 |
| 3,50    | 265     | 180     | 1                                                                                 | 12176   | 19,81 |
| 4,00    | 175     | 120     | 1                                                                                 | 12179   | 12,02 |
| 4,00    | 220     | 150     | 1                                                                                 | 12182   | 14,16 |
| 4,00    | 280     | 190     | 1                                                                                 | 12185   | 20,20 |
| 4,50    | 185     | 125     | 1                                                                                 | 12188   | 13,31 |
| 4,50    | 235     | 160     | 1                                                                                 | 12191   | 16,63 |
| 4,50    | 295     | 200     | 1                                                                                 | 12194   | 23,80 |
| 5,00    | 195     | 135     | 1                                                                                 | 12197   | 14,06 |
| 5,00    | 245     | 170     | 1                                                                                 | 12200   | 17,88 |
| 5,00    | 315     | 210     | 1                                                                                 | 12203   | 21,98 |
| 5,50    | 205     | 140     | 1                                                                                 | 12206   | 16,66 |
| 5,50    | 260     | 180     | 1                                                                                 | 12209   | 23,80 |
| 5,50    | 330     | 225     | 1                                                                                 | 12212   | 27,47 |
| 6,00    | 205     | 140     | 1                                                                                 | 12215   | 16,66 |
| 6,00    | 260     | 180     | 1                                                                                 | 12218   | 23,80 |
| 6,00    | 330     | 225     | 1                                                                                 | 12221   | 27,47 |
| 6,50    | 215     | 150     | 1                                                                                 | 12224   | 19,81 |
| 6,50    | 275     | 190     | 1                                                                                 | 12227   | 25,59 |

| Ø<br>mm | L<br>mm | I<br>mm |  | Nº Art. | €     |
|---------|---------|---------|-------------------------------------------------------------------------------------|---------|-------|
| 6,50    | 350     | 235     | 1                                                                                   | 12230   | 31,88 |
| 7,00    | 225     | 155     | 1                                                                                   | 12233   | 20,99 |
| 7,00    | 290     | 200     | 1                                                                                   | 12236   | 29,23 |
| 7,00    | 370     | 250     | 1                                                                                   | 12239   | 39,51 |
| 7,50    | 225     | 155     | 1                                                                                   | 12242   | 23,65 |
| 7,50    | 290     | 200     | 1                                                                                   | 12245   | 31,49 |
| 7,50    | 370     | 250     | 1                                                                                   | 12248   | 45,87 |
| 8,00    | 240     | 165     | 1                                                                                   | 12251   | 26,11 |
| 8,00    | 305     | 210     | 1                                                                                   | 12254   | 36,17 |
| 8,00    | 390     | 265     | 1                                                                                   | 12257   | 47,13 |
| 8,50    | 240     | 165     | 1                                                                                   | 12260   | 35,53 |
| 8,50    | 305     | 210     | 1                                                                                   | 12263   | 48,44 |
| 8,50    | 390     | 265     | 1                                                                                   | 12266   | 66,60 |
| 9,00    | 250     | 175     | 1                                                                                   | 12269   | 33,88 |
| 9,00    | 320     | 220     | 1                                                                                   | 12272   | 44,74 |
| 9,00    | 410     | 280     | 1                                                                                   | 12275   | 65,70 |
| 9,50    | 250     | 175     | 1                                                                                   | 12278   | 39,91 |
| 9,50    | 320     | 220     | 1                                                                                   | 12281   | 54,87 |
| 9,50    | 410     | 280     | 1                                                                                   | 12284   | 73,90 |
| 10,00   | 265     | 185     | 1                                                                                   | 12287   | 39,39 |
| 10,00   | 340     | 235     | 1                                                                                   | 12290   | 51,53 |
| 10,00   | 430     | 295     | 1                                                                                   | 12293   | 71,60 |
| 11,00   | 280     | 195     | 1                                                                                   | 28866   | 49,88 |
| 12,00   | 295     | 205     | 1                                                                                   | 28867   | 65,85 |



Ref. **1090****BROCA MANGO CILÍNDRICO HSS LAMINADA**

HSS Straight Shank Rolled Twist Drill

Foret Queue Cylindrique HSS Laminé



HSS

Laminada  
Rolled  
Laminé

| Ø<br>mm | L<br>mm | I<br>mm |    | Nº Art. | €    |
|---------|---------|---------|----|---------|------|
| 1,00    | 34      | 12      | 10 | 21440   | 0,29 |
| 1,50    | 40      | 18      | 10 | 21446   | 0,29 |
| 2,00    | 49      | 24      | 10 | 21452   | 0,29 |
| 2,50    | 57      | 30      | 10 | 21458   | 0,29 |
| 3,00    | 61      | 33      | 10 | 21464   | 0,29 |
| 3,25    | 65      | 36      | 10 | 21470   | 0,36 |
| 3,50    | 70      | 39      | 10 | 21473   | 0,42 |
| 4,00    | 75      | 43      | 10 | 21482   | 0,42 |
| 4,25    | 75      | 43      | 10 | 21485   | 0,48 |
| 4,50    | 80      | 47      | 10 | 21488   | 0,48 |
| 5,00    | 86      | 52      | 10 | 21494   | 0,50 |
| 5,50    | 93      | 57      | 10 | 21503   | 0,57 |

| Ø<br>mm | L<br>mm | I<br>mm |    | Nº Art. | €    |
|---------|---------|---------|----|---------|------|
| 6,00    | 93      | 57      | 10 | 21509   | 0,61 |
| 6,50    | 101     | 63      | 10 | 21518   | 0,65 |
| 7,00    | 109     | 69      | 10 | 21527   | 0,92 |
| 7,50    | 109     | 69      | 10 | 21533   | 0,98 |
| 8,00    | 117     | 75      | 10 | 21542   | 1,06 |
| 8,50    | 117     | 75      | 10 | 21548   | 1,24 |
| 9,00    | 125     | 81      | 10 | 21554   | 1,55 |
| 10,00   | 133     | 87      | 10 | 21566   | 1,68 |
| 11,00   | 142     | 94      | 5  | 21581   | 2,15 |
| 12,00   | 151     | 101     | 5  | 21593   | 2,37 |
| 13,00   | 151     | 101     | 5  | 21608   | 2,76 |

Ref. **1009****BROCA MANGO CILÍNDRICO HSS LAMINADA**

HSS Straight Shank Rolled Twist Drill

Foret Queue Cylindrique HSS Laminé



HSS

Laminada  
Rolled  
Laminé

| Ø<br>mm | L<br>mm | I<br>mm |   | Nº Art. | €    |
|---------|---------|---------|---|---------|------|
| 1,00    | 34      | 12      | 2 | 30173   | 0,78 |
| 1,50    | 40      | 18      | 2 | 30175   | 0,78 |
| 2,00    | 49      | 24      | 2 | 30177   | 0,81 |
| 2,50    | 57      | 30      | 2 | 30179   | 0,81 |
| 3,00    | 61      | 33      | 2 | 30181   | 0,81 |
| 3,25    | 65      | 36      | 2 | 30182   | 0,92 |
| 3,50    | 70      | 39      | 2 | 30183   | 0,98 |
| 4,00    | 75      | 43      | 2 | 30185   | 0,98 |
| 4,25    | 75      | 43      | 1 | 30186   | 0,66 |
| 4,50    | 80      | 47      | 1 | 30187   | 0,71 |
| 5,00    | 86      | 52      | 1 | 30189   | 0,71 |
| 5,50    | 93      | 57      | 1 | 30191   | 0,78 |

| Ø<br>mm | L<br>mm | I<br>mm |   | Nº Art. | €    |
|---------|---------|---------|---|---------|------|
| 6,00    | 93      | 57      | 1 | 30193   | 0,85 |
| 6,50    | 101     | 63      | 1 | 30195   | 0,89 |
| 7,00    | 109     | 69      | 1 | 30197   | 0,98 |
| 7,50    | 109     | 69      | 1 | 30199   | 1,14 |
| 8,00    | 117     | 75      | 1 | 30201   | 1,30 |
| 8,50    | 117     | 75      | 1 | 30203   | 1,46 |
| 9,00    | 125     | 81      | 1 | 30205   | 1,56 |
| 10,00   | 133     | 87      | 1 | 30209   | 1,93 |
| 11,00   | 142     | 94      | 1 | 30213   | 2,48 |
| 12,00   | 151     | 101     | 1 | 30217   | 3,03 |
| 13,00   | 151     | 101     | 1 | 30221   | 3,34 |

Ref. **1490**Ref. **1491**Ref. **1492**

| Cont. Ø                         | Nº Art. | €    |
|---------------------------------|---------|------|
| 6 Pcs: 2 - 3 - 4 - 5 - 6 - 8 mm | 30204   | 4,36 |

| Cont. Ø                 | Nº Art. | €     |
|-------------------------|---------|-------|
| 19 Pcs: 1 - 10 x 0,5 mm | 30206   | 17,35 |

| Cont. Ø                 | Nº Art. | €     |
|-------------------------|---------|-------|
| 25 Pcs: 1 - 13 x 0,5 mm | 30210   | 34,83 |

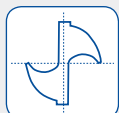
Ref. **1110****BROCA MANGO CÓNICO HSS**

HSS Morse Taper Shank Twist Drill

Foret Queue Cône Morse HSS



HSS

DIN  
345 N

Aceros &lt;850 N/mm² Steel

Aceros &lt;1000 N/mm² Steel

Fundición / Cast Iron / Fonte

Cobre / Copper / Cuivre



| Ø<br>mm | L<br>mm | I<br>mm | CM | Nº Art. | €     |
|---------|---------|---------|----|---------|-------|
| 5,00    | 133     | 52      | 1  | 14426   | 12,11 |
| 5,25    | 133     | 52      | 1  | 14429   | 13,93 |
| 5,50    | 138     | 57      | 1  | 14432   | 12,11 |
| 5,75    | 138     | 57      | 1  | 14435   | 13,93 |
| 6,00    | 138     | 57      | 1  | 14438   | 12,11 |
| 6,25    | 144     | 63      | 1  | 14441   | 15,88 |
| 6,50    | 144     | 63      | 1  | 14444   | 12,89 |
| 6,75    | 150     | 69      | 1  | 14447   | 14,83 |
| 7,00    | 150     | 69      | 1  | 14450   | 12,89 |
| 7,25    | 150     | 69      | 1  | 14453   | 17,05 |
| 7,50    | 150     | 69      | 1  | 14456   | 13,86 |
| 7,75    | 156     | 75      | 1  | 14459   | 17,05 |
| 8,00    | 156     | 75      | 1  | 14462   | 13,82 |
| 8,25    | 156     | 75      | 1  | 14465   | 20,02 |
| 8,50    | 156     | 75      | 1  | 14468   | 15,03 |
| 8,75    | 162     | 81      | 1  | 14471   | 17,98 |
| 9,00    | 162     | 81      | 1  | 14474   | 15,03 |
| 9,25    | 162     | 81      | 1  | 14477   | 19,89 |
| 9,50    | 162     | 81      | 1  | 14480   | 14,85 |
| 9,75    | 168     | 87      | 1  | 14483   | 19,89 |
| 10,00   | 168     | 87      | 1  | 14486   | 14,57 |
| 10,25   | 168     | 87      | 1  | 14489   | 18,62 |
| 10,50   | 168     | 87      | 1  | 14492   | 16,18 |
| 10,75   | 175     | 94      | 1  | 14495   | 18,62 |
| 11,00   | 175     | 94      | 1  | 14498   | 16,18 |
| 11,25   | 175     | 94      | 1  | 14501   | 19,57 |
| 11,50   | 175     | 94      | 1  | 14504   | 17,03 |
| 11,75   | 175     | 94      | 1  | 14507   | 19,57 |
| 12,00   | 182     | 101     | 1  | 14510   | 17,03 |
| 12,25   | 182     | 101     | 1  | 14513   | 21,80 |
| 12,50   | 182     | 101     | 1  | 14516   | 18,22 |
| 12,75   | 182     | 101     | 1  | 14519   | 21,80 |
| 13,00   | 182     | 101     | 1  | 14522   | 18,97 |
| 13,25   | 189     | 108     | 1  | 14525   | 23,98 |
| 13,50   | 189     | 108     | 1  | 14528   | 20,04 |
| 13,75   | 189     | 108     | 1  | 14531   | 23,98 |
| 14,00   | 189     | 108     | 1  | 14534   | 20,04 |
| 14,25   | 212     | 114     | 2  | 14537   | 25,96 |
| 14,50   | 212     | 114     | 2  | 14540   | 22,59 |
| 14,75   | 212     | 114     | 2  | 14543   | 25,96 |
| 15,00   | 212     | 114     | 2  | 14546   | 22,59 |
| 15,25   | 218     | 120     | 2  | 14549   | 26,89 |
| 15,50   | 218     | 120     | 2  | 14552   | 23,37 |
| 15,75   | 218     | 120     | 2  | 14555   | 26,89 |
| 16,00   | 218     | 120     | 2  | 14558   | 23,37 |
| 16,25   | 223     | 125     | 2  | 14561   | 30,41 |

| Ø<br>mm | L<br>mm | I<br>mm | CM | Nº Art. | €     |
|---------|---------|---------|----|---------|-------|
| 16,50   | 223     | 125     | 2  | 14564   | 26,43 |
| 16,75   | 223     | 125     | 2  | 14567   | 30,41 |
| 17,00   | 223     | 125     | 2  | 14570   | 26,43 |
| 17,25   | 228     | 130     | 2  | 14573   | 33,64 |
| 17,50   | 228     | 130     | 2  | 14576   | 29,25 |
| 17,75   | 228     | 130     | 2  | 14579   | 33,64 |
| 18,00   | 228     | 130     | 2  | 14582   | 28,13 |
| 18,25   | 233     | 135     | 2  | 14585   | 37,01 |
| 18,50   | 233     | 135     | 2  | 14588   | 32,20 |
| 18,75   | 233     | 135     | 2  | 14591   | 37,01 |
| 19,00   | 233     | 135     | 2  | 14594   | 32,20 |
| 19,25   | 238     | 140     | 2  | 14597   | 40,29 |
| 19,50   | 238     | 140     | 2  | 14600   | 35,03 |
| 19,75   | 238     | 140     | 2  | 14603   | 40,29 |
| 20,00   | 238     | 140     | 2  | 14606   | 35,03 |
| 20,25   | 243     | 145     | 2  | 14609   | 41,77 |
| 20,50   | 243     | 145     | 2  | 14612   | 36,32 |
| 20,75   | 243     | 145     | 2  | 14615   | 41,77 |
| 21,00   | 243     | 145     | 2  | 14618   | 36,32 |
| 21,25   | 248     | 150     | 2  | 14621   | 46,08 |
| 21,50   | 248     | 150     | 2  | 14624   | 40,06 |
| 21,75   | 248     | 150     | 2  | 14627   | 46,08 |
| 22,00   | 248     | 150     | 2  | 14630   | 40,06 |
| 22,25   | 248     | 150     | 2  | 14633   | 50,41 |
| 22,50   | 253     | 155     | 2  | 14636   | 43,85 |
| 22,75   | 253     | 155     | 2  | 14639   | 50,41 |
| 23,00   | 253     | 155     | 2  | 14642   | 43,85 |
| 23,25   | 276     | 155     | 3  | 14645   | 55,62 |
| 23,50   | 276     | 155     | 3  | 14648   | 48,36 |
| 23,75   | 281     | 160     | 3  | 14651   | 55,62 |
| 24,00   | 281     | 160     | 3  | 14654   | 48,36 |
| 24,25   | 281     | 160     | 3  | 14657   | 60,67 |
| 24,50   | 281     | 160     | 3  | 14660   | 52,74 |
| 24,75   | 281     | 160     | 3  | 14663   | 60,67 |
| 25,00   | 281     | 160     | 3  | 14666   | 52,74 |
| 25,25   | 286     | 165     | 3  | 14669   | 66,00 |
| 25,50   | 286     | 165     | 3  | 14672   | 57,38 |
| 25,75   | 286     | 165     | 3  | 14675   | 66,00 |
| 26,00   | 286     | 165     | 3  | 14678   | 57,38 |
| 26,25   | 286     | 165     | 3  | 14681   | 71,47 |
| 26,50   | 286     | 165     | 3  | 14684   | 62,15 |
| 26,75   | 291     | 170     | 3  | 14687   | 71,47 |
| 27,00   | 291     | 170     | 3  | 14690   | 62,15 |
| 27,25   | 291     | 170     | 3  | 14693   | 76,49 |
| 27,50   | 291     | 170     | 3  | 14696   | 66,53 |
| 27,75   | 291     | 170     | 3  | 14699   | 76,49 |

| Ø<br>mm | L<br>mm | I<br>mm | CM | Nº Art. | €      |
|---------|---------|---------|----|---------|--------|
| 28,00   | 291     | 170     | 3  | 14702   | 66,53  |
| 28,25   | 296     | 175     | 3  | 14705   | 82,06  |
| 28,50   | 296     | 175     | 3  | 14708   | 71,34  |
| 28,75   | 296     | 175     | 3  | 14711   | 82,06  |
| 29,00   | 296     | 175     | 3  | 14714   | 71,34  |
| 29,25   | 296     | 175     | 3  | 14717   | 90,21  |
| 29,50   | 296     | 175     | 3  | 14720   | 78,44  |
| 29,75   | 296     | 175     | 3  | 14723   | 90,21  |
| 30,00   | 296     | 175     | 3  | 14726   | 78,44  |
| 30,25   | 301     | 180     | 3  | 14729   | 100,39 |
| 30,50   | 301     | 180     | 3  | 14732   | 87,30  |
| 30,75   | 301     | 180     | 3  | 14735   | 100,39 |
| 31,00   | 301     | 180     | 3  | 14738   | 87,30  |
| 31,25   | 301     | 180     | 3  | 14741   | 106,32 |
| 31,50   | 301     | 180     | 3  | 14744   | 92,44  |
| 31,75   | 306     | 185     | 3  | 14747   | 106,32 |
| 32,00   | 334     | 185     | 4  | 14750   | 92,44  |
| 32,50   | 334     | 185     | 4  | 14753   | 105,59 |
| 33,00   | 334     | 185     | 4  | 14756   | 105,59 |
| 33,50   | 334     | 185     | 4  | 14759   | 114,81 |
| 34,00   | 339     | 190     | 4  | 14762   | 114,81 |
| 34,50   | 339     | 190     | 4  | 14765   | 125,46 |
| 35,00   | 339     | 190     | 4  | 14768   | 125,46 |
| 35,50   | 339     | 190     | 4  | 14771   | 134,62 |
| 36,00   | 344     | 195     | 4  | 14774   | 134,62 |
| 36,50   | 344     | 195     | 4  | 14777   | 141,90 |
| 37,00   | 344     | 195     | 4  | 14780   | 141,90 |
| 37,50   | 344     | 195     | 4  | 14783   | 149,26 |
| 38,00   | 349     | 200     | 4  | 14786   | 149,26 |
| 38,50   | 349     | 200     | 4  | 14789   | 159,19 |
| 39,00   | 349     | 200     | 4  | 14792   | 159,19 |
| 39,50   | 349     | 200     | 4  | 14795   | 168,09 |
| 40,00   | 349     | 200     | 4  | 14798   | 168,09 |
| 40,50   | 354     | 205     | 4  | 14801   | 176,74 |
| 41,00   | 354     | 205     | 4  | 14804   | 176,74 |
| 41,50   | 354     | 205     | 4  | 14807   | 187,53 |
| 42,00   | 354     | 205     | 4  | 14810   | 187,53 |
| 42,50   | 354     | 205     | 4  | 14813   | 196,72 |
| 43,00   | 359     | 210     | 4  | 14816   | 196,72 |
| 43,50   | 359     | 210     | 4  | 14819   | 205,95 |
| 44,00   | 359     | 210     | 4  | 14822   | 205,95 |
| 44,50   | 359     | 210     | 4  | 14825   | 215,05 |
| 45,00   | 359     | 210     | 4  | 14828   | 215,05 |
| 45,50   | 364     | 215     | 4  | 14831   | 224,11 |
| 46,00   | 364     | 215     | 4  | 14834   | 224,11 |
| 46,50   | 364     | 215     | 4  | 14837   | 233,23 |

Ref. **1110****BROCA MANGO CÓNICO HSS**

HSS Morse Taper Shank Twist Drill

Foret Queue Cône Morse HSS



| Ø<br>mm | L<br>mm | I<br>mm | CM | Nº Art. | €      | Ø<br>mm | L<br>mm | I<br>mm | CM | Nº Art. | €       | Ø<br>mm | L<br>mm | I<br>mm | CM | Nº Art. | €       |
|---------|---------|---------|----|---------|--------|---------|---------|---------|----|---------|---------|---------|---------|---------|----|---------|---------|
| 47,00   | 364     | 215     | 4  | 14840   | 233,23 | 64,00   | 432     | 245     | 5  | 14903   | 609,90  | 84,00   | 519     | 265     | 6  | 14963   | 1301,38 |
| 47,50   | 364     | 215     | 4  | 14843   | 241,09 | 65,00   | 432     | 245     | 5  | 14906   | 585,71  | 85,00   | 519     | 265     | 6  | 14966   | 1333,54 |
| 48,00   | 369     | 220     | 4  | 14846   | 241,09 | 66,00   | 432     | 245     | 5  | 14909   | 658,28  | 86,00   | 524     | 270     | 6  | 14969   | 1362,65 |
| 48,50   | 369     | 220     | 4  | 14849   | 250,34 | 67,00   | 432     | 245     | 5  | 14912   | 679,54  | 87,00   | 524     | 270     | 6  | 14972   | 1391,61 |
| 49,00   | 369     | 220     | 4  | 14852   | 250,34 | 68,00   | 437     | 250     | 5  | 14915   | 697,18  | 88,00   | 524     | 270     | 6  | 14975   | 1427,37 |
| 49,50   | 369     | 220     | 4  | 14855   | 259,43 | 69,00   | 437     | 250     | 5  | 14918   | 718,82  | 89,00   | 524     | 270     | 6  | 14978   | 1454,97 |
| 50,00   | 369     | 220     | 4  | 14858   | 259,43 | 70,00   | 437     | 250     | 5  | 14921   | 681,56  | 90,00   | 524     | 270     | 6  | 14981   | 1496,64 |
| 51,00   | 412     | 225     | 5  | 14864   | 306,25 | 71,00   | 437     | 250     | 5  | 14924   | 786,89  | 91,00   | 529     | 275     | 6  | 14984   | 1578,51 |
| 52,00   | 412     | 225     | 5  | 14867   | 326,52 | 72,00   | 442     | 255     | 5  | 14927   | 803,18  | 92,00   | 529     | 275     | 6  | 14987   | 1587,60 |
| 53,00   | 412     | 225     | 5  | 14870   | 348,41 | 73,00   | 442     | 255     | 5  | 14930   | 824,21  | 93,00   | 529     | 275     | 6  | 14990   | 1644,23 |
| 54,00   | 417     | 230     | 5  | 14873   | 385,27 | 74,00   | 442     | 255     | 5  | 14933   | 848,31  | 94,00   | 529     | 275     | 6  | 14993   | 1677,65 |
| 55,00   | 417     | 230     | 5  | 14876   | 380,15 | 75,00   | 442     | 255     | 5  | 14936   | 799,09  | 95,00   | 529     | 275     | 6  | 14996   | 1712,12 |
| 56,00   | 417     | 230     | 5  | 14879   | 429,10 | 76,00   | 447     | 260     | 5  | 14939   | 940,94  | 96,00   | 534     | 280     | 6  | 14999   | 1768,53 |
| 57,00   | 422     | 235     | 5  | 14882   | 454,06 | 77,00   | 514     | 260     | 6  | 14942   | 1009,75 | 97,00   | 534     | 280     | 6  | 15002   | 1783,35 |
| 58,00   | 422     | 235     | 5  | 14885   | 456,89 | 78,00   | 514     | 260     | 6  | 14945   | 1029,47 | 98,00   | 534     | 280     | 6  | 15005   | 1823,13 |
| 59,00   | 422     | 235     | 5  | 14888   | 471,60 | 79,00   | 514     | 260     | 6  | 14948   | 1050,20 | 99,00   | 534     | 280     | 6  | 15008   | 1856,10 |
| 60,00   | 422     | 235     | 5  | 14891   | 448,39 | 80,00   | 514     | 260     | 6  | 14951   | 1107,95 | 100,00  | 534     | 280     | 6  | 15011   | 1891,50 |
| 61,00   | 427     | 240     | 5  | 14894   | 524,82 | 81,00   | 519     | 265     | 6  | 14954   | 1219,86 |         |         |         |    |         |         |
| 62,00   | 427     | 240     | 5  | 14897   | 546,61 | 82,00   | 519     | 265     | 6  | 14957   | 1250,33 |         |         |         |    |         |         |
| 63,00   | 427     | 240     | 5  | 14900   | 578,07 | 83,00   | 519     | 265     | 6  | 14960   | 1274,34 |         |         |         |    |         |         |



| Cont. Ø                                                                                                 | Nº Art. | €       |
|---------------------------------------------------------------------------------------------------------|---------|---------|
| 25 Pcs: 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   | 1042,69 |



| Cont. Ø                                  | Nº Art. | €      |
|------------------------------------------|---------|--------|
| 10 Pcs: 14-15-16-17-18-19-20-21-22-25 mm | 19346   | 348,16 |



# PORTA-BROCAS Y ACCESORIOS

## Drill Chucks & Accesories

## Mandrins et Accessoires

Ref. **1802**

### PORTA-BROCAS TALADROS PORTÁTILES CON LLAVE

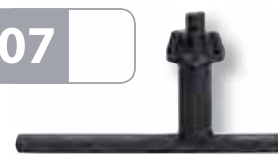
Portable Drilling Machine Drill-Chucks with Key  
Mandrins Perçuses Portables avec clef



- Ideal taladro portátil
- Cierre con llave
- Cuerpo metal
- Agujero interior
- Ideal portable drills
- Key-lock
- Metal body
- Internal hole
- Perçuses à main
- Fermeture à clef
- Corps Métal
- Trou intérieur

| Mod.  | Cap. mm | Fijación Fix. | Nº Art. | €     |
|-------|---------|---------------|---------|-------|
| 00101 | 1-10    | 3/8X24 UNF    | 47490   | 16,60 |
| 00102 | 1-10    | 1/2X20 UNF    | 47491   | 16,60 |
| 00131 | 1,5-13  | 3/8X24 UNF    | 47493   | 18,33 |
| 00132 | 1,5-13  | 1/2X20 UNF    | 47494   | 18,33 |

Ref. **1807**

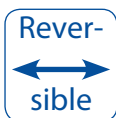


| D mm | L mm | I mm | Nº Art. | €    |
|------|------|------|---------|------|
| 6    | 75   | 39   | 16362   | 2,97 |

Ref. **1805**

### PORTA-BROCAS TALADROS PORTÁTILES - DISEÑO PLÁSTICO

Portable Drilling Machine Drill-Chucks - Plastic Design  
Mandrins Perçuses Portables - Design plastique



- Ideal atornilladores
- Taladros percusión de batería
- Reversible
- Cierre seguridad
- Cuerpo plástico ligero
- Agujero interior
- No apto martillo alta frecuencia (SDS)
- Ideal screwdrivers
- Battery percussion drills
- Reversible
- Security lock
- Light plastic body
- Internal hole
- Not suitable for high frequency hammers (SDS)
- Idéal Tournevis
- Perçuses percusion battérie
- Reversible
- Fermeture sureté
- Corps plastique léger
- Trou intérieur
- Pas recommandés pour marteaux SDS

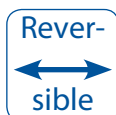
| Mod.  | Cap. mm | Fijación Fix. | Nº Art. | €     |
|-------|---------|---------------|---------|-------|
| 00101 | 1-10    | 3/8X24 UNF    | 18238   | 38,21 |
| 00102 | 1-10    | 1/2X20 UNF    | 18240   | 38,21 |
| 00131 | 2-13    | 3/8X24 UNF    | 18241   | 55,15 |
| 00132 | 2-13    | 1/2X20 UNF    | 18242   | 55,15 |



Ref. **1806****PORTA-BROCAS TALADROS PORTÁTILES - DISEÑO METAL**

Portable Drilling Machine Drill-Chucks - Metal Design

Mandrins Perçuses Portables - Design métallique



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

| Mod.  | Cap. mm | Fijación Fix. | Nº Art. | €     |
|-------|---------|---------------|---------|-------|
| 00101 | 1-10    | 3/8X24 UNF    | 14706   | 38,84 |
| 00102 | 1-10    | 1/2X20 UNF    | 14712   | 38,84 |
| 00131 | 2-13    | 3/8X24 UNF    | 14718   | 56,00 |
| 00132 | 2-13    | 1/2X20 UNF    | 14736   | 56,00 |

Ref. **1803****PORTA-BROCAS TALADROS PORTATILES Y ESTACIONARIOS**

Portable &amp; Stationary Drilling Machine Drill-Chucks

Mandrins Perçuses 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 Perçuses Industrielles et Professionnelles
- Fixations: Filet Perçuse portable et Conique Perçuse à colonne
- Aménagement Automatique
- Tour à droite

| Mod.  | Cap. mm | Fijación Fix. | Nº Art. | €      |
|-------|---------|---------------|---------|--------|
| 00101 | 0,8-10  | B12           | 16349   | 63,54  |
| 00102 | 0,8-10  | 3/8X24 UNF    | 16350   | 63,54  |
| 00103 | 0,8-10  | 1/2X20UNF     | 16351   | 63,54  |
| 00131 | 1-13    | B16           | 16352   | 68,40  |
| 00132 | 1-13    | 3/8X24 UNF    | 16353   | 68,40  |
| 00133 | 1-13    | 1/2X20 UNF    | 16354   | 68,40  |
| 00161 | 3-16    | B16           | 16355   | 116,37 |
| 00162 | 3-16    | B18           | 16356   | 116,37 |
| 00163 | 3-16    | 1/2X20 UNF    | 16357   | 116,37 |
| 00164 | 5-20    | B18           | 19957   | 146,88 |

Ref. **1819**

| Mod.    | Garras Jaws Pines          | Nº Art. | €     |
|---------|----------------------------|---------|-------|
| 1013ROS | 10/13 mm ROSCA (Ref. 1803) | 56894   | 53,34 |
| 13DIN16 | 13DIN / 16 mm (Ref. 1803)  | 24565   | 35,56 |

Ref. **1804****PORTA-BROCAS TALADROS PORTATILES Y ESTACIONARIOS**

Portable &amp; Stationary Drilling Machine Drill-Chucks

Mandrins Perçuses Portables et Fixes



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

| Mod.  | Cap. mm | Fijación Fix. | Nº Art. | €     |
|-------|---------|---------------|---------|-------|
| 00101 | 0-10    | 3/8X24 UNF    | 16358   | 69,87 |
| 00102 | 0-10    | 1/2X20 UNF    | 16359   | 69,87 |
| 00131 | 1-13    | 3/8X24 UNF    | 16360   | 75,24 |
| 00132 | 1-13    | 1/2X20 UNF    | 16361   | 75,24 |

Ref. **1809**

## ADAPTADORES TALADROS

Drilling Machine Adaptors  
Adaptateurs Perçuses



00001



00002



00003



00004



00005



00008

| Mod.  | Entrada<br>Inlet<br>Entrée | Salida<br>Outlet<br>Sortie | Nº Art. | €             |
|-------|----------------------------|----------------------------|---------|---------------|
| 00001 | 3/8X24h                    | 3/8X24h                    | 16363   | <b>3,45</b>   |
| 00002 | 3/8X24h                    | 1/2X20h                    | 16364   | <b>4,05</b>   |
| 00003 | SDS plus                   | 1/2X20h                    | 16365   | <b>19,12</b>  |
| 00004 | SDS max                    | SDS plus                   | 17258   | <b>109,40</b> |
| 00005 | Hex. 13 mm                 | SDS plus                   | 17259   | <b>118,62</b> |
| 00008 | 1/2x20h                    | SDS plus                   | 20485   | <b>59,19</b>  |

| Mod.  | Tornillo<br>Screw<br>Vis |    | Nº Art. | €           |
|-------|--------------------------|----|---------|-------------|
| 00010 | M5x18mm (3/8X24)         | 10 | 25321   | <b>0,39</b> |
| 00011 | M6x25mm (1/2X20)         | 10 | 25323   | <b>0,39</b> |

Display  
**12**

## PORTA-BROCAS TALADROS PORTÁTILES Y ESTACIONARIOS

Portable & Stationary Drilling Machine Drill-Chucks  
Mandrins Perçuses Portables & Fixes



|     |                                                 |                                                   |                                                 |                                                 |                                                 |                                                 |
|-----|-------------------------------------------------|---------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| ø   | <b>Ref. 1802</b><br>Cap. 1-10<br>Fix. 1/2 x 20h | <b>Ref. 1802</b><br>Cap. 1,5-13<br>Fix. 1/2 x 20h | <b>Ref. 1805</b><br>Cap. 1-10<br>Fix. 1/2 x 20h | <b>Ref. 1805</b><br>Cap. 2-13<br>Fix. 1/2 x 20h | <b>Ref. 1806</b><br>Cap. 1-10<br>Fix. 1/2 x 20h | <b>Ref. 1806</b><br>Cap. 2-13<br>Fix. 1/2 x 20h |
| Pcs | 2                                               | 2                                                 | 2                                               | 2                                               | 2                                               | 2                                               |
| ø   | <b>Ref. 1803</b><br>Cap. 0-10<br>Fix. 1/2 x 20h | <b>Ref. 1803</b><br>Cap. 1-13<br>Fix. 1/2 x 20h   | <b>Ref. 1804</b><br>Cap. 0-10<br>Fix. 1/2 x 20h | <b>Ref. 1804</b><br>Cap. 1-13<br>Fix. 1/2 x 20h | <b>Ref. 1809</b><br>SDS plus<br>Mod. 00003      | <b>Ref. 1807</b><br>Llave - Key<br>Mod. 00001   |
| Pcs | 2                                               | 2                                                 | 2                                               | 2                                               | 5                                               | 5                                               |

Ref. 4995 - Nº Art. 22334: **1110,81 €**

Ref. **9994**

## MÁQUINA AFILADORA BROCAS

Twist Drill Sharpening Machine

Machine Affûteuse Forets



Mod. **360**



| Mod. | Cap.<br>mm | Punta<br>Point<br>Pointe | Uso<br>Use<br>Usage | Nº Art. | €      |
|------|------------|--------------------------|---------------------|---------|--------|
| 360  | 2,5-13     | 118°                     | HSS, TIN, MD/HM     | 38416   | 147,14 |

Mod. **500**



| Mod. | Cap.<br>mm | Punta<br>Point<br>Pointe | Uso<br>Use<br>Usage                                                        | Nº Art. | €      |
|------|------------|--------------------------|----------------------------------------------------------------------------|---------|--------|
| 500  | 2,5-13     | 118°-135°                | HSS, TIN, HSSE, MD/HM,<br><b>Pared</b><br>Masonry / Béton<br>+ Split Point | 45121   | 299,20 |

Mod. **750**



| Mod. | Cap.<br>mm | Punta<br>Point<br>Pointe | Uso<br>Use<br>Usage                    | Nº Art. | €      |
|------|------------|--------------------------|----------------------------------------|---------|--------|
| 750  | 2,5-19     | 115°-140                 | HSS, TIN, HSSE, MD/HM<br>+ Split Point | 38418   | 342,58 |

## PIEZAS RECAMBIO - Spare Parts - Pieces Rechange

### Porta Brocas - Drill Chucks - Mandrins

| Mod.    | Cap.<br>mm | Punta<br>Point<br>Pointe | Nº Art. | €     |
|---------|------------|--------------------------|---------|-------|
| 360     | 2,5-13     | 118°                     | 39712   | 68,07 |
| 500     | 2,5-13     | 118°-135°                | 47218   | 68,07 |
| 500-750 | 2,5-19     | 115°-140                 | 40343   | 95,43 |

### Muela - Wheel - Meule

| Mod. | Grano<br>Grain     | Máquina<br>Machine | Cap.<br>mm | Nº Art. | €     |
|------|--------------------|--------------------|------------|---------|-------|
| K180 | Fino Fine Fin      | 360-500-750        | 2,5-19     | 40344   | 47,63 |
| K100 | Grueso Coarse Gros | 750                | 13-19      | 43414   | 47,63 |

Ref. **1101**

## CONO REDUCTOR

Reduction Sleeve  
Douille de Réduction



DIN  
2185

| CM<br>EXT. | CM<br>INT. | L<br>mm |  | Nº Art. | €            |
|------------|------------|---------|-----------------------------------------------------------------------------------|---------|--------------|
| 2          | 1          | 92      | 1                                                                                 | 16415   | <b>17,19</b> |
| 3          | 1          | 99      | 1                                                                                 | 16416   | <b>23,57</b> |
| 3          | 2          | 102     | 1                                                                                 | 16417   | <b>23,90</b> |
| 4          | 1          | 124     | 1                                                                                 | 16418   | <b>37,53</b> |

| CM<br>EXT. | CM<br>INT. | L<br>mm |  | Nº Art. | €            |
|------------|------------|---------|-------------------------------------------------------------------------------------|---------|--------------|
| 4          | 2          | 124     | 1                                                                                   | 16419   | <b>37,53</b> |
| 4          | 3          | 140     | 1                                                                                   | 16420   | <b>37,53</b> |
| 5          | 3          | 156     | 1                                                                                   | 16421   | <b>57,71</b> |
| 5          | 4          | 170     | 1                                                                                   | 16422   | <b>57,94</b> |

Ref. **1102**

## ALARGADOR CONOS

Extension Socket  
Douille d'Augmentation



DIN  
2187

| CM<br>EXT. | CM<br>INT. | L<br>mm |  | Nº Art. | €             |
|------------|------------|---------|-------------------------------------------------------------------------------------|---------|---------------|
| 1          | 2          | 160     | 1                                                                                   | 16423   | <b>41,58</b>  |
| 2          | 1          | 159     | 1                                                                                   | 16427   | <b>32,20</b>  |
| 2          | 2          | 176     | 1                                                                                   | 16433   | <b>42,64</b>  |
| 2          | 3          | 195     | 1                                                                                   | 16424   | <b>54,92</b>  |
| 3          | 1          | 176     | 1                                                                                   | 16428   | <b>34,34</b>  |
| 3          | 2          | 194     | 1                                                                                   | 16429   | <b>40,49</b>  |
| 3          | 3          | 215     | 1                                                                                   | 16434   | <b>62,06</b>  |
| 3          | 4          | 239     | 1                                                                                   | 16425   | <b>82,38</b>  |
| 4          | 1          | 200     | 1                                                                                   | 16430   | <b>57,45</b>  |
| 4          | 2          | 215     | 1                                                                                   | 16431   | <b>58,08</b>  |
| 4          | 3          | 240     | 1                                                                                   | 16432   | <b>67,65</b>  |
| 4          | 4          | 265     | 1                                                                                   | 16435   | <b>97,77</b>  |
| 4          | 5          | 299     | 1                                                                                   | 16426   | <b>193,57</b> |

Ref. **1103**

## ESPIGA SUJECCIÓN

Spike CM Taper  
Arbre d'Attachement



| CM | DIN | L<br>mm |  | Nº Art. | €            |
|----|-----|---------|---------------------------------------------------------------------------------------|---------|--------------|
| 1  | B12 | 90      | 1                                                                                     | 16440   | <b>10,86</b> |
| 2  | B12 | 105     | 1                                                                                     | 16441   | <b>11,71</b> |
| 2  | B16 | 112     | 1                                                                                     | 16442   | <b>11,71</b> |
| 2  | B18 | 119     | 1                                                                                     | 16443   | <b>11,71</b> |
| 3  | B12 | 124     | 1                                                                                     | 16444   | <b>14,25</b> |
| 3  | B16 | 130     | 1                                                                                     | 16445   | <b>14,25</b> |
| 3  | B18 | 138     | 1                                                                                     | 21873   | <b>14,25</b> |
| 4  | B16 | 156     | 1                                                                                     | 16446   | <b>21,88</b> |
| 4  | B18 | 164     | 1                                                                                     | 16447   | <b>21,88</b> |

Ref. **1104**

## CUÑA EXPULSORA

Drill Drift  
Chasse Cône Standard



| CM<br>min. | CM<br>max. | L<br>mm |  | Nº Art. | €            |
|------------|------------|---------|---------------------------------------------------------------------------------------|---------|--------------|
| 1          | 2          | 116     | 1                                                                                     | 16436   | <b>10,26</b> |
| 2          | 3          | 150     | 1                                                                                     | 16437   | <b>12,41</b> |
| 3          | 4          | 199     | 1                                                                                     | 16438   | <b>16,45</b> |
| 4          | 5          | 251     | 1                                                                                     | 16439   | <b>22,20</b> |





# BROCAS ESPECIALES

## Special Twist Drills

## Forets Spéciales

Ref. **1602**

### BROCA ESCALONADA HSS

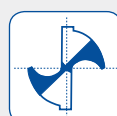
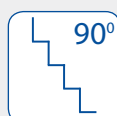
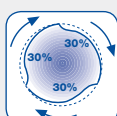
HSS Step Drill  
Foret Étagé HSS



\* Ø Pasos / Steps / Pas Ref. 1602-1607:

- (2) 4-5-6-7-8-9-10-11-12 (6) 9-12-15-18-21-24-27-30-33-36  
(3) 4-6-8-10-12-14-16-18-20 (7) 12-13-14-15-16-17-18-19-20  
(4) 6-8-10-12-14-16-18-20-22-24-26-28-30 (8) 20-21-22-23-24-25-26-27-28-29-30

HSS



Chapa  
<4mm  
Sheet

Metal no ferroso  
Non ferrous Metal  
Met. Non Ferritique

Plástico / Plastics / Plastiques

Aceros <850 N/mm² Steel



| Cap.<br>mm | Nº Pasos*<br>Steps*<br>Étages* | d<br>mm | L<br>mm | Nº Art. | €      |
|------------|--------------------------------|---------|---------|---------|--------|
| 4-12       | 9 (2)                          | 6       | 80      | 12048   | 42,14  |
| 4-20       | 9 (3)                          | 8       | 67      | 12054   | 53,59  |
| 6-30       | 13 (4)                         | 10      | 98      | 12060   | 78,76  |
| 9-36       | 10 (6)                         | 12      | 86      | 12066   | 141,69 |
| 12-20      | 9 (7)                          | 9       | 76      | 56798   | 58,44  |
| 20-30      | 11 (8)                         | 12      | 88      | 56799   | 85,19  |



| Cont.               | Nº Art. | €      |
|---------------------|---------|--------|
| 4-12, 4-20, 6-30 mm | 43518   | 174,49 |

Ref. **1607**

### BROCA ESCALONADA HSSE

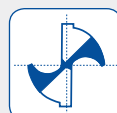
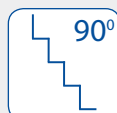
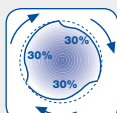
HSSE Step Drill  
Foret Étagé HSSE



\* Ø Pasos / Steps / Pas Ref. 1602-1607:

- (2) 4-5-6-7-8-9-10-11-12 (6) 9-12-15-18-21-24-27-30-33-36  
(3) 4-6-8-10-12-14-16-18-20 (7) 12-13-14-15-16-17-18-19-20  
(4) 6-8-10-12-14-16-18-20-22-24-26-28-30 (8) 20-21-22-23-24-25-26-27-28-29-30

HSSE  
5% Co



Chapa  
<4mm  
Sheet

Metal no ferroso  
Non ferrous Metal  
Met. Non Ferritique

Plástico / Plastics / Plastiques

Aceros <850 N/mm² Steel

INOX / Stainless Steel



| Cap.<br>mm | Nº Pasos*<br>Steps*<br>Étages* | d<br>mm | L<br>mm | Nº Art. | €     |
|------------|--------------------------------|---------|---------|---------|-------|
| 4-12       | 9 (2)                          | 6       | 80      | 12072   | 50,56 |
| 4-20       | 9 (3)                          | 8       | 67      | 12078   | 64,31 |
| 6-30       | 13 (4)                         | 10      | 98      | 12084   | 94,51 |



Otros ø-s bajo demanda / More ø-s upon request / Autres ø-s sur demande

| Cont.               | Nº Art. | €      |
|---------------------|---------|--------|
| 4-12, 4-20, 6-30 mm | 43519   | 209,38 |

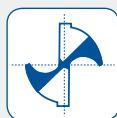
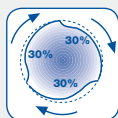
Ref. **1603**

## BROCA TUBO/CHAPA

Tube/Shutter Drill  
Foret Ampli-Trou



HSS



Chapa  
<4mm  
Sheet

Metal no ferroso  
Non ferrous Metal  
Met. pas ferritique

Plástico / Plastics / Plastiques

Aceros <850 N/mm² Steel



| Cap.<br>mm | d<br>mm | L<br>mm | Nº Art. | €      |
|------------|---------|---------|---------|--------|
| 3-14       | 6       | 58      | 12090   | 14,63  |
| 4-20       | 8       | 71      | 12093   | 24,30  |
| 5-31       | 9       | 103     | 12105   | 67,48  |
| 16-30,5    | 9       | 76      | 12096   | 40,14  |
| 24-40      | 10      | 89      | 12099   | 83,08  |
| 36-50      | 12      | 97      | 12100   | 121,21 |
| 40-61      | 13      | 103     | 12102   | 202,23 |

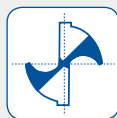
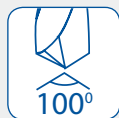
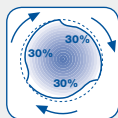
Ref. **1609**

## BROCA TUBO/CHAPA

Tube/Shutter Drill  
Foret Ampli-Trou



HSSE  
5% Co



Chapa  
<4mm  
Sheet

Metal no ferroso  
Non ferrous Metal  
Met. pas ferritique

Plástico / Plastics / Plastiques

Aceros <850 N/mm² Steel

INOX / Stainless Steel



| Cap.<br>mm | d<br>mm | L<br>mm | Nº Art. | €     |
|------------|---------|---------|---------|-------|
| 3-14       | 6       | 58      | 12108   | 28,44 |
| 5-20       | 8       | 71      | 12109   | 37,65 |
| 5-31       | 9       | 103     | 12112   | 95,62 |
| 16-30,5    | 9       | 76      | 12111   | 62,14 |

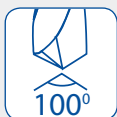
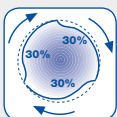
Ref. **1606****BROCA FRESA**

Mill Drill

Foret à Découper la Tôle



HSS

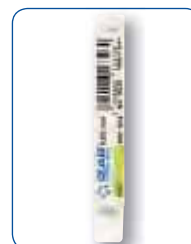


| D<br>mm | L<br>mm | N° Art. | €     |
|---------|---------|---------|-------|
| 6,00    | 90      | 16330   | 12,52 |
| 8,00    | 90      | 16331   | 16,00 |

Ref. **1604****BROCA CORTA PUNTOS SOLDADURA**

Welding Point Jobber Drill Bit

Foret Courte Points Soudure

HSSE  
5% CoSerie Corta  
Jobber Series  
Série Courte

| D<br>mm | L<br>mm | N° Art. | €     |
|---------|---------|---------|-------|
| 6,00    | 66      | 16326   | 9,92  |
| 8,00    | 80      | 16327   | 12,65 |

Ref. **1605****BROCA EXTRA-CORTA PUNTOS SOLDADURA**

Welding Point Stub Drill Bit

Foret Extra-Courte Points Soudure

HSSE  
5% CoS. Extra-Corta  
Stub Series  
Série Extra-Courte

| D<br>mm | L<br>mm | N° Art. | €     |
|---------|---------|---------|-------|
| 8,00    | 40      | 16328   | 15,77 |
| 8,00    | 44      | 16329   | 17,58 |



# FRESAS HUECAS

## Hole-Cutters

### Fraises à Carotter

Ref. **4077**

#### FRESA HUECA MÁQUINAS ELECTROMAGNÉTICAS TCT LARGA

Long TCT Electromagnetic Machine Hole-Cutter

Fraise à Carotter pour Unité de Perçage Electro-Magnetique TCT Longue

no  
ve  
dad  
new



TCT

Serie Larga  
Long Length  
Série Longue

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

Aceros <850 N/mm² Steel

Fundición / Cast Iron / Fonte

INOX / Stainless Steel

Aluminio / Aluminium

Cobre / Copper / Cuivre

Latón / Brass / Laiton

Madera / Wood / Bois



| D<br>mm | d<br>mm | l<br>mm | Nº Art. | €     |
|---------|---------|---------|---------|-------|
| 14      | 19      | 50      | 56746   | 56,84 |
| 15      | 19      | 50      | 56747   | 56,84 |
| 16      | 19      | 50      | 56749   | 56,84 |
| 17      | 19      | 50      | 56750   | 56,84 |
| 18      | 19      | 50      | 56752   | 56,84 |
| 19      | 19      | 50      | 56753   | 56,84 |
| 20      | 19      | 50      | 56754   | 56,84 |
| 21      | 19      | 50      | 56755   | 59,62 |
| 22      | 19      | 50      | 56756   | 59,62 |
| 23      | 19      | 50      | 56757   | 59,62 |
| 24      | 19      | 50      | 56758   | 59,70 |
| 25      | 19      | 50      | 56759   | 59,70 |
| 26      | 19      | 50      | 56760   | 71,48 |
| 27      | 19      | 50      | 56761   | 71,48 |
| 28      | 19      | 50      | 56762   | 71,60 |
| 29      | 19      | 50      | 56763   | 71,60 |

| D<br>mm | d<br>mm | l<br>mm | Nº Art. | €      |
|---------|---------|---------|---------|--------|
| 30      | 19      | 50      | 56764   | 71,60  |
| 31      | 19      | 50      | 56765   | 86,21  |
| 32      | 19      | 50      | 56766   | 86,21  |
| 33      | 19      | 50      | 56767   | 86,21  |
| 34      | 19      | 50      | 56768   | 86,21  |
| 35      | 19      | 50      | 56769   | 86,21  |
| 36      | 19      | 50      | 56770   | 98,43  |
| 37      | 19      | 50      | 56771   | 98,78  |
| 38      | 19      | 50      | 56772   | 98,78  |
| 39      | 19      | 50      | 56773   | 98,78  |
| 40      | 19      | 50      | 56774   | 98,78  |
| 41      | 19      | 50      | 56775   | 119,17 |
| 42      | 19      | 50      | 56776   | 119,17 |
| 43      | 19      | 50      | 56777   | 119,17 |
| 44      | 19      | 50      | 56778   | 119,17 |
| 45      | 19      | 50      | 56779   | 119,17 |

| D<br>mm | d<br>mm | l<br>mm | Nº Art. | €      |
|---------|---------|---------|---------|--------|
| 46      | 19      | 50      | 56780   | 138,73 |
| 47      | 19      | 50      | 56781   | 138,81 |
| 48      | 19      | 50      | 56782   | 138,81 |
| 49      | 19      | 50      | 56783   | 138,81 |
| 50      | 19      | 50      | 56784   | 138,81 |
| 51      | 19      | 50      | 56785   | 156,86 |
| 52      | 19      | 50      | 56786   | 157,45 |
| 53      | 19      | 50      | 56787   | 157,45 |
| 54      | 19      | 50      | 56788   | 157,45 |
| 55      | 19      | 50      | 56789   | 157,45 |
| 56      | 19      | 50      | 56790   | 172,72 |
| 57      | 19      | 50      | 56791   | 172,72 |
| 58      | 19      | 50      | 56792   | 172,72 |
| 59      | 19      | 50      | 56793   | 172,72 |
| 60      | 19      | 50      | 56794   | 172,72 |



Ref. **4070**

## FRESA HUECA MÁQUINAS ELECTROMAGNÉTICAS HSS CORTA

Short HSS Electromagnetic Machine Hole-Cutter

Fraise à Carotter pour Unité de Perçage Electro-Magnetique HSS Courte



HSS

Serie Corta  
Short Length  
Série Courte

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

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

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

Fundición / Cast Iron / Fonte



| D<br>mm | d<br>mm | l<br>mm | Nº Art. | €     |
|---------|---------|---------|---------|-------|
| 12      | 19      | 30      | 21106   | 29,82 |
| 13      | 19      | 30      | 21107   | 29,82 |
| 14      | 19      | 30      | 21108   | 30,91 |
| 15      | 19      | 30      | 21109   | 32,21 |
| 16      | 19      | 30      | 21110   | 33,50 |
| 17      | 19      | 30      | 21111   | 34,57 |
| 18      | 19      | 30      | 21112   | 35,87 |
| 19      | 19      | 30      | 21113   | 36,74 |
| 20      | 19      | 30      | 21114   | 38,46 |
| 21      | 19      | 30      | 21115   | 41,06 |
| 22      | 19      | 30      | 21116   | 42,57 |
| 23      | 19      | 30      | 21117   | 44,30 |
| 24      | 19      | 30      | 21118   | 46,04 |
| 25      | 19      | 30      | 21119   | 47,54 |
| 26      | 19      | 30      | 21120   | 49,27 |
| 27      | 19      | 30      | 21121   | 49,70 |
| 28      | 19      | 30      | 21122   | 52,74 |
| 29      | 19      | 30      | 21123   | 54,48 |

| D<br>mm | d<br>mm | l<br>mm | Nº Art. | €      |
|---------|---------|---------|---------|--------|
| 30      | 19      | 30      | 21124   | 55,97  |
| 31      | 19      | 30      | 21125   | 60,95  |
| 32      | 19      | 30      | 21126   | 65,27  |
| 33      | 19      | 30      | 21127   | 68,73  |
| 34      | 19      | 30      | 21128   | 80,84  |
| 35      | 19      | 30      | 21129   | 89,48  |
| 36      | 19      | 30      | 21130   | 91,65  |
| 37      | 19      | 30      | 21131   | 93,30  |
| 38      | 19      | 30      | 21132   | 94,23  |
| 39      | 19      | 30      | 21133   | 95,10  |
| 40      | 19      | 30      | 21134   | 95,97  |
| 41      | 19      | 30      | 21135   | 97,71  |
| 42      | 19      | 30      | 21136   | 104,18 |
| 43      | 19      | 30      | 21137   | 108,93 |
| 44      | 19      | 30      | 21138   | 112,40 |
| 45      | 19      | 30      | 21139   | 113,70 |
| 46      | 19      | 30      | 21140   | 116,26 |
| 47      | 19      | 30      | 21141   | 118,43 |

| D<br>mm | d<br>mm | l<br>mm | Nº Art. | €      |
|---------|---------|---------|---------|--------|
| 48      | 19      | 30      | 21142   | 123,20 |
| 49      | 19      | 30      | 21143   | 124,07 |
| 50      | 19      | 30      | 21144   | 131,40 |
| 51      | 19      | 30      | 21145   | 134,00 |
| 52      | 19      | 30      | 21146   | 138,32 |
| 53      | 19      | 30      | 21147   | 146,11 |
| 54      | 19      | 30      | 21148   | 153,46 |
| 55      | 19      | 30      | 21149   | 157,33 |
| 56      | 19      | 30      | 21150   | 160,80 |
| 57      | 19      | 30      | 21151   | 165,99 |
| 58      | 19      | 30      | 21152   | 168,59 |
| 59      | 19      | 30      | 21153   | 193,66 |
| 60      | 19      | 30      | 21154   | 211,80 |

+ ø bajo demanda

+ ø upon request

+ ø sur demande



| Cont. Ø              | Nº Art. | €      |
|----------------------|---------|--------|
| 14(2)-18(2)-22(2) mm | 22681   | 235,99 |



| Cont. Ø              | Nº Art. | €      |
|----------------------|---------|--------|
| 13-14-17-18-21-22 mm | 22682   | 237,95 |

Ref. **4071**

## BROCA HUECA MÁQUINAS ELECTROMAGNÉTICAS HSS LARGA

Long HSS Electromagnetic Machine Hole-Cutter

Fraise à Carotter pour Unité de Perçage Electro-Magnetique HSS Longue



HSS

Serie Larga  
Long Length  
Série Longue

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

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

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

Fundición / Cast Iron / Fonte



| D<br>mm | d<br>mm | l<br>mm | Nº Art. | €      |
|---------|---------|---------|---------|--------|
| 14      | 19      | 55      | 21157   | 42,81  |
| 15      | 19      | 55      | 21158   | 44,53  |
| 16      | 19      | 55      | 21159   | 47,54  |
| 17      | 19      | 55      | 21160   | 49,27  |
| 18      | 19      | 55      | 21161   | 52,96  |
| 19      | 19      | 55      | 21162   | 54,03  |
| 20      | 19      | 55      | 21163   | 55,55  |
| 21      | 19      | 55      | 21164   | 61,81  |
| 22      | 19      | 55      | 21165   | 63,55  |
| 23      | 19      | 55      | 21166   | 65,70  |
| 24      | 19      | 55      | 21167   | 67,66  |
| 25      | 19      | 55      | 21168   | 69,59  |
| 26      | 19      | 55      | 21169   | 71,77  |
| 27      | 19      | 55      | 21170   | 75,21  |
| 28      | 19      | 55      | 21171   | 78,68  |
| 29      | 19      | 55      | 21172   | 81,69  |
| 30      | 19      | 55      | 21173   | 85,17  |
| 31      | 19      | 55      | 21174   | 89,48  |
| 32      | 19      | 55      | 21175   | 93,37  |
| 33      | 19      | 55      | 21177   | 97,71  |
| 34      | 19      | 55      | 21178   | 102,02 |
| 35      | 19      | 55      | 21179   | 106,34 |
| 36      | 19      | 55      | 21180   | 109,36 |
| 37      | 19      | 55      | 21181   | 113,48 |

| D<br>mm | d<br>mm | l<br>mm | Nº Art. | €      |
|---------|---------|---------|---------|--------|
| 38      | 19      | 55      | 21182   | 116,71 |
| 39      | 19      | 55      | 21183   | 125,36 |
| 40      | 19      | 55      | 21184   | 131,85 |
| 41      | 19      | 55      | 21185   | 134,00 |
| 42      | 19      | 55      | 21186   | 135,73 |
| 43      | 19      | 55      | 21187   | 139,20 |
| 44      | 19      | 55      | 21188   | 140,92 |
| 45      | 19      | 55      | 21189   | 145,24 |
| 46      | 19      | 55      | 21190   | 146,97 |
| 47      | 19      | 55      | 21191   | 155,19 |
| 48      | 19      | 55      | 21192   | 159,07 |
| 49      | 19      | 55      | 21193   | 159,93 |
| 50      | 19      | 55      | 21194   | 163,40 |
| 51      | 19      | 55      | 21195   | 172,90 |
| 52      | 19      | 55      | 21196   | 179,82 |
| 53      | 19      | 55      | 21197   | 203,60 |
| 54      | 19      | 55      | 21198   | 206,62 |
| 55      | 19      | 55      | 21199   | 210,94 |
| 56      | 19      | 55      | 21200   | 214,84 |
| 57      | 19      | 55      | 21201   | 230,83 |
| 58      | 19      | 55      | 21202   | 236,02 |
| 59      | 19      | 55      | 21203   | 262,39 |
| 60      | 19      | 55      | 21204   | 280,97 |

+ ø bajo demanda / + ø upon request / + ø sur demande

Ref. **4072****FRESA HUECA MÁQUINAS ELECTROMAGNÉTICAS HSS EXTRA LARGA**

Extra Long HSS Electromagnetic Machine Hole-Cutter

Fraise à Carotter pour Unité de Perçage Electro-Magnetique HSS Extra-Longue

no  
ve  
dad  
new

HSS

S. Extra-Larga  
Extra-Long Series  
Série Extra-LongueApto con Poca Lubricación  
Suitable with Minimal Cooling  
Apte avec Lubrification minimale

Aceros &lt;850 N/mm² Steel

Aceros &lt;1000 N/mm² Steel

Fundición / Cast Iron / Fonte



| D<br>mm | d<br>mm | l<br>mm | Nº Art. | €             |
|---------|---------|---------|---------|---------------|
| 20      | 19      | 110     | 56694   | <b>116,75</b> |
| 21      | 19      | 110     | 56695   | <b>118,94</b> |
| 22      | 19      | 110     | 56696   | <b>121,19</b> |
| 23      | 19      | 110     | 56697   | <b>123,60</b> |
| 24      | 19      | 110     | 56698   | <b>130,95</b> |
| 25      | 19      | 110     | 56699   | <b>133,35</b> |
| 26      | 19      | 110     | 56700   | <b>147,24</b> |
| 27      | 19      | 110     | 56701   | <b>149,92</b> |
| 28      | 19      | 110     | 56702   | <b>152,86</b> |
| 29      | 19      | 110     | 56703   | <b>155,73</b> |
| 30      | 19      | 110     | 56704   | <b>158,70</b> |
| 31      | 19      | 110     | 56706   | <b>165,57</b> |
| 32      | 19      | 110     | 56707   | <b>168,49</b> |
| 33      | 19      | 110     | 56708   | <b>180,42</b> |
| 34      | 19      | 110     | 56709   | <b>183,69</b> |
| 35      | 19      | 110     | 56710   | <b>187,05</b> |

| D<br>mm | d<br>mm | l<br>mm | Nº Art. | €             |
|---------|---------|---------|---------|---------------|
| 36      | 19      | 110     | 56711   | <b>190,51</b> |
| 37      | 19      | 110     | 56712   | <b>194,46</b> |
| 38      | 19      | 110     | 56714   | <b>198,11</b> |
| 39      | 19      | 110     | 56715   | <b>201,86</b> |
| 40      | 19      | 110     | 56716   | <b>205,70</b> |
| 41      | 19      | 110     | 56717   | <b>240,79</b> |
| 42      | 19      | 110     | 56718   | <b>244,82</b> |
| 43      | 19      | 110     | 56719   | <b>248,95</b> |
| 44      | 19      | 110     | 56721   | <b>253,18</b> |
| 45      | 19      | 110     | 56722   | <b>305,19</b> |
| 46      | 19      | 110     | 56724   | <b>309,31</b> |
| 47      | 19      | 110     | 56725   | <b>313,66</b> |
| 48      | 19      | 110     | 56727   | <b>317,88</b> |
| 49      | 19      | 110     | 56728   | <b>322,18</b> |
| 50      | 19      | 110     | 56730   | <b>326,58</b> |

Ref. **4075****EXPULSORES**Ejectors  
Ejecteurs

HSS



| l<br>mm | Nº Art. | €            |
|---------|---------|--------------|
| 30      | 21411   | <b>14,64</b> |
| 55      | 21412   | <b>20,61</b> |
| 110     | 56281   | <b>28,08</b> |

no  
ve  
dad  
new



# CORONAS

## Hole Saws

## Trépan

Ref. **1667**

### CORONA REAFILABLE HSS

HSS Resharpenable Hole Saw

Fraise à Trépaner HSS



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

Fundición / Cast Iron / Fonte

Aluminio / Aluminium

Cobre / Copper / Cuivre

Latón / Brass / Laiton

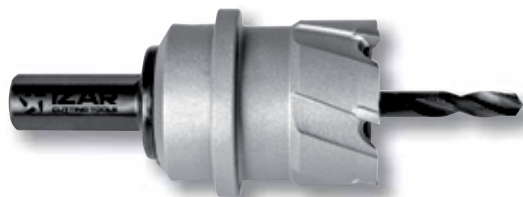
Madera / Wood / Bois



| D<br>mm | d<br>mm | L<br>mm | D mm<br>Broca<br>Drill Bit<br>Foret | Nº Art. | €     | D<br>mm | d<br>mm | L<br>mm | D mm<br>Broca<br>Drill Bit<br>Foret | Nº Art. | €      |
|---------|---------|---------|-------------------------------------|---------|-------|---------|---------|---------|-------------------------------------|---------|--------|
| 12      | 10      | 75,50   | 6                                   | 56569   | 15,83 | 33      | 10      | 75,50   | 6                                   | 56590   | 32,43  |
| 13      | 10      | 75,50   | 6                                   | 56570   | 15,83 | 35      | 10      | 75,50   | 6                                   | 56160   | 33,49  |
| 14      | 10      | 75,50   | 6                                   | 56572   | 15,83 | 36      | 10      | 75,50   | 6                                   | 56591   | 35,59  |
| 15      | 10      | 75,50   | 6                                   | 56573   | 15,83 | 38      | 10      | 75,50   | 6                                   | 56593   | 37,25  |
| 16      | 10      | 75,50   | 6                                   | 56152   | 15,83 | 39      | 10      | 75,50   | 6                                   | 56594   | 38,30  |
| 17      | 10      | 75,50   | 6                                   | 56576   | 16,99 | 40      | 10      | 75,50   | 6                                   | 56161   | 39,36  |
| 18      | 10      | 75,50   | 6                                   | 56578   | 18,22 | 42      | 10      | 75,50   | 6                                   | 56596   | 41,42  |
| 19      | 10      | 75,50   | 6                                   | 56579   | 19,27 | 45      | 10      | 75,50   | 6                                   | 56597   | 44,63  |
| 20      | 10      | 75,50   | 6                                   | 56154   | 20,33 | 48      | 10      | 75,50   | 6                                   | 56163   | 46,86  |
| 21      | 10      | 75,50   | 6                                   | 56582   | 20,33 | 50      | 10      | 75,50   | 6                                   | 56164   | 48,98  |
| 22      | 10      | 75,50   | 6                                   | 56155   | 21,38 | 53      | 10      | 75,50   | 6                                   | 56599   | 59,67  |
| 23      | 10      | 75,50   | 6                                   | 56583   | 22,43 | 55      | 10      | 75,50   | 6                                   | 56600   | 60,86  |
| 24      | 10      | 75,50   | 6                                   | 56584   | 23,62 | 60      | 10      | 75,50   | 6                                   | 56165   | 66,81  |
| 25      | 10      | 75,50   | 6                                   | 56156   | 24,67 | 65      | 10      | 75,50   | 6                                   | 56602   | 81,08  |
| 26      | 10      | 75,50   | 6                                   | 56585   | 25,73 | 70      | 10      | 75,50   | 6                                   | 56166   | 93,58  |
| 27      | 10      | 75,50   | 6                                   | 56157   | 26,78 | 75      | 10      | 75,50   | 6                                   | 56167   | 100,71 |
| 28      | 10      | 75,50   | 6                                   | 56587   | 28,21 | 80      | 10      | 75,50   | 6                                   | 56603   | 117,31 |
| 29      | 10      | 75,50   | 6                                   | 56588   | 29,26 | 85      | 10      | 75,50   | 6                                   | 56605   | 123,63 |
| 30      | 10      | 75,50   | 6                                   | 56158   | 29,26 | 90      | 10      | 75,50   | 6                                   | 56606   | 136,70 |
| 32      | 10      | 75,50   | 6                                   | 56159   | 31,37 | 100     | 10      | 75,50   | 6                                   | 56608   | 149,78 |

Ref. **1665**

**CORONA INOX**  
STAINLESS Hole Saw  
Trépan INOX



Diente MD  
Carbide Tipped  
Dent Carbure

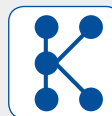
PVC

Fibra Vidrio  
Fiberglass  
Fibre de verre



INOX  
Stain-  
less

Alumin.



INOX / Stainless Steel

Aluminio / Aluminium

Plástico / Plastics / Plastiques



| D mm | Pulgadas<br>Inches<br>Pouces | D mm<br>Broca<br>Drill Bit<br>Foret | Nº Art. | €      |
|------|------------------------------|-------------------------------------|---------|--------|
| 18   | 23/32                        | 10,00                               | 13796   | 55,53  |
| 20   | 25/32                        | 10,00                               | 13798   | 56,39  |
| 21   | 13/16                        | 10,00                               | 13799   | 58,20  |
| 22   | 7/8                          | 10,00                               | 13800   | 58,20  |
| 23   | 14/16                        | 10,00                               | 13801   | 59,04  |
| 24   | 15/16                        | 10,00                               | 13802   | 59,04  |
| 25   | 1                            | 10,00                               | 13803   | 59,04  |
| 26   | 1 1/32                       | 10,00                               | 13804   | 62,40  |
| 27   | 1 1/16                       | 10,00                               | 13805   | 63,42  |
| 28   | 1 3/32                       | 10,00                               | 13806   | 63,42  |
| 29   | 1 1/8                        | 10,00                               | 13807   | 63,42  |
| 30   | 1 3/16                       | 10,00                               | 13808   | 63,42  |
| 31   | 1 7/32                       | 10,00                               | 13809   | 74,61  |
| 32   | 1 1/4                        | 10,00                               | 13810   | 77,28  |
| 33   | 1 5/16                       | 10,00                               | 13811   | 77,28  |
| 34   | 1 11/32                      | 10,00                               | 13812   | 78,12  |
| 35   | 1 3/8                        | 10,00                               | 13813   | 78,12  |
| 38   | 1 1/2                        | 12,30                               | 13816   | 89,72  |
| 40   | 1 9/16                       | 12,30                               | 13818   | 90,65  |
| 42   | 1 21/32                      | 12,30                               | 13820   | 107,39 |
| 45   | 1 25/32                      | 12,30                               | 13823   | 110,44 |
| 50   |                              | 12,30                               | 13828   | 114,25 |
| 52   | 2 1/16                       | 12,30                               | 13830   | 133,07 |
| 53   | 2 3/32                       | 12,30                               | 13831   | 134,01 |
| 55   |                              | 12,30                               | 13833   | 134,01 |
| 60   | 2 3/8                        | 12,30                               | 13838   | 148,85 |
| 63   |                              | 12,30                               | 13841   | 187,57 |

Ref. **1664**

no  
ve  
dad  
new



| D mm | L mm | Nº Art. | €     |
|------|------|---------|-------|
| 6    | 50   | 54906   | 12,12 |





# ESCARIADORES

Reamers

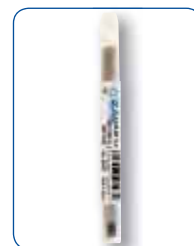
Alésoirs

Ref. **2010**

## ESCARIADOR MANO

Hand Reamer

Alésoir à Main



HSS

DIN  
206 B

ISO  
236

Tol.  
H7

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

Aluminio / Aluminium

| D<br>mm | L<br>mm | I<br>mm | a<br>mm | Nº Art. | €     |
|---------|---------|---------|---------|---------|-------|
| 1,60    | 44      | 21      | 1,25    | 74178   | 20,33 |
| 1,70    | 44      | 21      | 1,25    | 74181   | 20,33 |
| 1,80    | 47      | 23      | 1,40    | 74184   | 20,33 |
| 1,90    | 47      | 23      | 1,40    | 74187   | 20,33 |
| 2,00    | 50      | 25      | 1,60    | 40379   | 15,24 |
| 2,10    | 50      | 25      | 1,60    | 74190   | 20,33 |
| 2,20    | 54      | 27      | 1,80    | 74193   | 20,33 |
| 2,30    | 54      | 27      | 1,80    | 74196   | 20,33 |
| 2,40    | 58      | 29      | 2,10    | 74199   | 20,33 |
| 2,50    | 58      | 29      | 2,10    | 40382   | 15,24 |
| 2,60    | 58      | 29      | 2,10    | 75397   | 20,33 |
| 2,70    | 62      | 31      | 2,10    | 74202   | 20,33 |
| 2,80    | 62      | 31      | 2,10    | 74205   | 20,33 |
| 2,90    | 62      | 31      | 2,10    | 74208   | 20,33 |
| 3,00    | 62      | 31      | 2,10    | 40385   | 15,24 |
| 3,10    | 66      | 33      | 2,40    | 74211   | 20,33 |
| 3,20    | 66      | 33      | 2,40    | 74214   | 20,33 |
| 3,30    | 66      | 33      | 2,40    | 74217   | 20,33 |
| 3,40    | 71      | 35      | 2,70    | 74220   | 20,33 |
| 3,50    | 71      | 35      | 2,70    | 40388   | 15,98 |
| 3,60    | 71      | 35      | 2,70    | 74223   | 20,33 |
| 3,70    | 71      | 35      | 2,70    | 74226   | 20,33 |
| 3,80    | 76      | 38      | 3,00    | 75398   | 20,33 |
| 3,90    | 76      | 38      | 3,00    | 74229   | 20,33 |
| 4,00    | 76      | 38      | 3,00    | 40391   | 15,24 |
| 4,10    | 76      | 38      | 3,00    | 74232   | 21,25 |
| 4,20    | 76      | 38      | 3,00    | 74235   | 21,25 |
| 4,30    | 81      | 41      | 3,40    | 74238   | 21,25 |
| 4,40    | 81      | 41      | 3,40    | 74241   | 21,25 |
| 4,50    | 81      | 41      | 3,40    | 40394   | 15,92 |
| 4,60    | 81      | 41      | 3,40    | 74244   | 21,25 |
| 4,70    | 81      | 41      | 3,40    | 74247   | 21,25 |
| 4,80    | 87      | 44      | 3,80    | 74250   | 21,25 |
| 4,90    | 87      | 44      | 3,80    | 74253   | 21,25 |
| 5,00    | 87      | 44      | 3,80    | 40397   | 15,92 |
| 5,10    | 87      | 44      | 3,80    | 74256   | 21,25 |
| 5,20    | 87      | 44      | 3,80    | 74259   | 21,25 |
| 5,30    | 87      | 44      | 3,80    | 74262   | 21,25 |
| 5,40    | 93      | 47      | 4,30    | 74265   | 21,25 |
| 5,50    | 93      | 47      | 4,30    | 40400   | 15,92 |
| 5,60    | 93      | 47      | 4,30    | 74268   | 21,25 |
| 5,70    | 93      | 47      | 4,30    | 74271   | 21,25 |
| 5,80    | 93      | 47      | 4,30    | 74274   | 21,25 |
| 5,90    | 93      | 47      | 4,30    | 74277   | 21,25 |

| D<br>mm | L<br>mm | I<br>mm | a<br>mm | Nº Art. | €     |
|---------|---------|---------|---------|---------|-------|
| 6,00    | 93      | 47      | 4,30    | 40403   | 15,92 |
| 6,10    | 100     | 50      | 4,90    | 74280   | 21,25 |
| 6,20    | 100     | 50      | 4,90    | 75172   | 21,25 |
| 6,30    | 100     | 50      | 4,90    | 74283   | 21,25 |
| 6,40    | 100     | 50      | 4,90    | 74286   | 21,25 |
| 6,50    | 100     | 50      | 4,90    | 40406   | 15,92 |
| 6,60    | 100     | 50      | 4,90    | 75233   | 21,25 |
| 6,70    | 100     | 50      | 4,90    | 74289   | 21,25 |
| 6,80    | 107     | 54      | 5,50    | 74292   | 21,25 |
| 6,90    | 107     | 54      | 5,50    | 74295   | 21,25 |
| 7,00    | 107     | 54      | 5,50    | 40409   | 15,92 |
| 7,10    | 107     | 54      | 5,50    | 74298   | 22,43 |
| 7,20    | 107     | 54      | 5,50    | 74301   | 22,43 |
| 7,30    | 107     | 54      | 5,50    | 74947   | 22,43 |
| 7,40    | 107     | 54      | 5,50    | 74304   | 22,43 |
| 7,50    | 107     | 54      | 5,50    | 40412   | 16,82 |
| 7,60    | 115     | 58      | 6,20    | 74307   | 22,43 |
| 7,70    | 115     | 58      | 6,20    | 74310   | 22,43 |
| 7,80    | 115     | 58      | 6,20    | 74313   | 22,43 |
| 7,90    | 115     | 58      | 6,20    | 74316   | 22,43 |
| 8,00    | 115     | 58      | 6,20    | 40415   | 16,82 |
| 8,10    | 115     | 58      | 6,20    | 74319   | 23,55 |
| 8,20    | 115     | 58      | 6,20    | 74322   | 23,55 |
| 8,30    | 115     | 58      | 6,20    | 74325   | 23,55 |
| 8,40    | 115     | 58      | 6,20    | 74328   | 23,55 |
| 8,50    | 115     | 58      | 6,20    | 40418   | 17,64 |
| 8,60    | 124     | 62      | 7,00    | 74331   | 23,55 |
| 8,70    | 124     | 62      | 7,00    | 74334   | 23,55 |
| 8,80    | 124     | 62      | 7,00    | 74337   | 23,55 |
| 8,90    | 124     | 62      | 7,00    | 74340   | 23,55 |
| 9,00    | 124     | 62      | 7,00    | 40421   | 19,40 |
| 9,10    | 124     | 62      | 7,00    | 74343   | 24,59 |
| 9,20    | 124     | 62      | 7,00    | 74346   | 24,59 |
| 9,30    | 124     | 62      | 7,00    | 74349   | 24,59 |
| 9,40    | 124     | 62      | 7,00    | 74352   | 24,59 |
| 9,50    | 124     | 62      | 7,00    | 40424   | 20,25 |
| 9,60    | 133     | 66      | 8,00    | 74355   | 24,59 |
| 9,70    | 133     | 66      | 8,00    | 74358   | 24,59 |
| 9,80    | 133     | 66      | 8,00    | 74361   | 24,59 |
| 9,90    | 133     | 66      | 8,00    | 74364   | 24,59 |
| 10,00   | 133     | 66      | 8,00    | 40427   | 20,25 |
| 10,10   | 133     | 66      | 8,00    | 74367   | 31,08 |
| 10,20   | 133     | 66      | 8,00    | 74370   | 31,08 |
| 10,30   | 133     | 66      | 8,00    | 74373   | 31,08 |

| D<br>mm | L<br>mm | I<br>mm | a<br>mm | Nº Art. | €      |
|---------|---------|---------|---------|---------|--------|
| 10,40   | 133     | 66      | 8,00    | 74376   | 31,08  |
| 10,50   | 133     | 66      | 8,00    | 40430   | 22,63  |
| 10,60   | 142     | 71      | 8,00    | 74379   | 31,08  |
| 10,70   | 142     | 71      | 9,00    | 74382   | 31,08  |
| 10,80   | 142     | 71      | 9,00    | 74385   | 31,08  |
| 10,90   | 142     | 71      | 9,00    | 74388   | 31,08  |
| 11,00   | 142     | 71      | 9,00    | 40433   | 22,63  |
| 11,10   | 142     | 71      | 9,00    | 74391   | 33,45  |
| 11,20   | 142     | 71      | 9,00    | 74394   | 33,45  |
| 11,30   | 142     | 71      | 9,00    | 74397   | 33,45  |
| 11,40   | 142     | 71      | 9,00    | 74400   | 33,45  |
| 11,50   | 142     | 71      | 9,00    | 40436   | 24,32  |
| 11,60   | 142     | 71      | 9,00    | 74403   | 33,45  |
| 11,70   | 142     | 71      | 9,00    | 74406   | 33,45  |
| 11,80   | 152     | 76      | 9,00    | 74409   | 33,45  |
| 11,90   | 152     | 76      | 10,00   | 74412   | 33,45  |
| 12,00   | 152     | 76      | 10,00   | 40439   | 32,83  |
| 12,50   | 152     | 76      | 10,00   | 40442   | 41,90  |
| 13,00   | 152     | 76      | 10,00   | 40445   | 41,90  |
| 13,50   | 163     | 81      | 11,00   | 40448   | 44,78  |
| 14,00   | 163     | 81      | 11,00   | 40451   | 44,78  |
| 14,50   | 163     | 81      | 11,00   | 40454   | 48,90  |
| 15,00   | 163     | 81      | 11,00   | 40457   | 48,90  |
| 15,50   | 175     | 87      | 12,00   | 40460   | 53,20  |
| 16,00   | 175     | 87      | 12,00   | 40463   | 53,20  |
| 16,50   | 175     | 87      | 12,00   | 40466   | 64,06  |
| 17,00   | 175     | 87      | 12,00   | 40469   | 64,06  |
| 17,50   | 188     | 93      | 14,50   | 40472   | 71,52  |
| 18,00   | 188     | 93      | 14,50   | 40475   | 76,82  |
| 18,50   | 188     | 93      | 14,50   | 40478   | 76,82  |
| 19,00   | 188     | 93      | 14,50   | 40481   | 76,82  |
| 19,50   | 201     | 100     | 16,00   | 40484   | 78,63  |
| 20,00   | 201     | 100     | 16,00   | 40487   | 78,63  |
| 21,00   | 201     | 100     | 16,00   | 40493   | 78,63  |
| 22,00   | 215     | 107     | 18,00   | 40499   | 81,48  |
| 23,00   | 215     | 107     | 18,00   | 40505   | 85,10  |
| 24,00   | 231     | 115     | 20,00   | 40511   | 93,98  |
| 25,00   | 231     | 115     | 20,00   | 40517   | 99,75  |
| 26,00   | 231     | 115     | 20,00   | 40523   | 109,01 |
| 27,00   | 247     | 124     | 22,40   | 40529   | 118,86 |
| 28,00   | 247     | 124     | 22,40   | 40535   | 123,02 |
| 30,00   | 247     | 124     | 22,40   | 40547   | 162,82 |

Ref. **2015****ESCARIADOR MANO EXTENSIBLE**

Rapidly Adjustable Hand Reamer

Alésoir à Lames Réglables



HSS

**Reforzado**  
**Reinforced**  
**Renforcé**
Aceros <850 N/mm<sup>2</sup> Steel

Aluminio / Aluminium



| Cap.<br>mm  | L<br>mm | I<br>mm | Z | Nº Art. | €            |
|-------------|---------|---------|---|---------|--------------|
| 06,40-07,20 | 34      | 85      | 4 | 21076   | <b>86,82</b> |
| 07,20-08,00 | 35      | 90      | 4 | 21077   | <b>86,82</b> |
| 08,00-09,00 | 39      | 100     | 5 | 21079   | <b>86,82</b> |
| 09,00-10,00 | 45      | 120     | 5 | 21080   | <b>86,82</b> |
| 10,00-11,00 | 45      | 125     | 5 | 21081   | <b>86,82</b> |
| 11,00-12,00 | 46      | 130     | 5 | 21082   | <b>86,82</b> |
| 12,00-13,50 | 48      | 135     | 5 | 21084   | <b>86,82</b> |
| 13,50-15,50 | 58      | 140     | 5 | 21085   | <b>86,82</b> |

| Cap.<br>mm  | L<br>mm | I<br>mm | Z | Nº Art. | €             |
|-------------|---------|---------|---|---------|---------------|
| 15,50-18,00 | 69      | 165     | 5 | 21086   | <b>92,37</b>  |
| 18,00-21,00 | 75      | 185     | 5 | 21087   | <b>95,63</b>  |
| 21,00-24,00 | 80      | 195     | 5 | 21088   | <b>111,25</b> |
| 24,00-27,50 | 90      | 215     | 6 | 21089   | <b>121,12</b> |
| 27,50-31,50 | 100     | 240     | 6 | 21090   | <b>132,45</b> |
| 31,50-37,00 | 110     | 265     | 6 | 21091   | <b>172,67</b> |
| 37,00-45,00 | 130     | 310     | 6 | 21092   | <b>257,47</b> |
| 45,00-55,00 | 145     | 380     | 6 | 21093   | <b>370,40</b> |

Cuchillas (Ref. 2017) y otras medidas bajo demanda

Blades (Ref. 2017) &amp; other sizes upon request

Lames (Ref. 2017) et autres dimensions sur demande

Ref. **2016****ESCARIADOR MANO EXTENSIBLE**

Rapidly Adjustable Hand Reamer

Alésoir à Lames Réglables



HSS

**Con Guía**  
**Guided**  
**Avec Guide**
Aceros <850 N/mm<sup>2</sup> Steel

Aluminio / Aluminium



| Cap.<br>mm  | L<br>mm | I<br>mm | Z | Nº Art. | €             |
|-------------|---------|---------|---|---------|---------------|
| 08,00-09,00 | 39      | 175     | 5 | 21346   | <b>101,39</b> |
| 09,00-10,00 | 39      | 185     | 5 | 21347   | <b>101,39</b> |
| 10,00-11,00 | 45      | 195     | 5 | 21348   | <b>101,39</b> |
| 11,00-12,00 | 45      | 200     | 5 | 21350   | <b>101,39</b> |
| 12,00-13,50 | 48      | 220     | 5 | 21351   | <b>103,41</b> |
| 13,50-15,50 | 58      | 243     | 5 | 21352   | <b>107,53</b> |
| 15,50-18,00 | 69      | 274     | 5 | 21353   | <b>112,62</b> |
| 18,00-21,00 | 75      | 300     | 5 | 21354   | <b>119,75</b> |

| Cap.<br>mm  | L<br>mm | I<br>mm | Z | Nº Art. | €             |
|-------------|---------|---------|---|---------|---------------|
| 21,00-24,00 | 80      | 320     | 6 | 21355   | <b>136,98</b> |
| 24,00-27,50 | 90      | 350     | 6 | 21356   | <b>153,29</b> |
| 27,50-31,50 | 100     | 385     | 6 | 21357   | <b>172,59</b> |
| 31,50-37,00 | 110     | 424     | 6 | 21358   | <b>237,82</b> |
| 37,00-45,00 | 130     | 490     | 6 | 21360   | <b>333,04</b> |
| 45,00-55,00 | 145     | 600     | 6 | 21363   | <b>477,36</b> |

Cuchillas (Ref. 2017) y otras medidas bajo demanda

Blades (Ref. 2017) &amp; other sizes upon request

Lames (Ref. 2017) et autres dimensions sur demande



# 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.  $\infty$   
1

Aceros <850 N/mm² Steel

INOX / Stainless Steel

Cobre / Copper / Cuivre

Aluminio / Aluminium

Termo-Plásticos



| D+<br>mm | D-<br>mm | d<br>mm | L<br>mm | Z | Aplic.<br>mm | Nº Art. | €      |
|----------|----------|---------|---------|---|--------------|---------|--------|
| 4,30     | 1,30     | 4,00    | 40      | 3 | 1,5-4,3      | 74653   | 13,34  |
| 5,00     | 1,50     | 4,00    | 40      | 3 | 2-5          | 74654   | 12,92  |
| 5,30     | 1,50     | 4,00    | 40      | 3 | 2-5,3        | 74655   | 13,23  |
| 5,80     | 1,50     | 5,00    | 45      | 3 | 2-5,8        | 74656   | 13,52  |
| 6,00     | 1,50     | 5,00    | 45      | 3 | 2-6          | 74657   | 13,52  |
| 6,30     | 1,50     | 5,00    | 45      | 3 | 2-6,3        | 74658   | 13,05  |
| 7,00     | 1,80     | 6,00    | 50      | 3 | 2-7          | 74659   | 13,20  |
| 7,30     | 1,80     | 6,00    | 50      | 3 | 2-7,3        | 74660   | 13,38  |
| 8,00     | 2,00     | 6,00    | 50      | 3 | 2,5-8        | 74661   | 14,12  |
| 8,30     | 2,00     | 6,00    | 50      | 3 | 2,5-8,3      | 74662   | 14,27  |
| 9,40     | 2,20     | 6,00    | 50      | 3 | 3-9,4        | 74663   | 14,89  |
| 10,00    | 2,50     | 6,00    | 50      | 3 | 3-10         | 74664   | 15,62  |
| 10,40    | 2,50     | 6,00    | 50      | 3 | 3-10,4       | 74665   | 18,60  |
| 11,50    | 2,80     | 8,00    | 56      | 3 | 3-11,4       | 74666   | 17,29  |
| 12,40    | 2,80     | 8,00    | 56      | 3 | 3-12,4       | 74667   | 17,88  |
| 13,40    | 2,90     | 8,00    | 56      | 3 | 3-13,4       | 74668   | 19,52  |
| 15,00    | 3,20     | 10,00   | 60      | 3 | 4-15         | 74669   | 22,08  |
| 16,50    | 3,20     | 10,00   | 60      | 3 | 4-16,5       | 74670   | 23,29  |
| 19,00    | 3,50     | 10,00   | 63      | 3 | 4-19         | 74671   | 33,04  |
| 20,50    | 3,50     | 10,00   | 63      | 3 | 4-20,5       | 74672   | 33,80  |
| 23,00    | 3,80     | 10,00   | 67      | 3 | 4-23         | 74673   | 41,31  |
| 25,00    | 3,80     | 10,00   | 67      | 3 | 4-25         | 74674   | 44,32  |
| 28,00    | 4,00     | 12,00   | 71      | 3 | 4,5-28       | 42714   | 62,09  |
| 30,00    | 4,20     | 12,00   | 71      | 3 | 4,5-30       | 12588   | 66,42  |
| 31,00    | 4,20     | 12,00   | 71      | 3 | 4,5-31       | 42715   | 66,42  |
| 40,00    | 5,00     | 15,00   | 80      | 3 | 5,5-40       | 11061   | 120,79 |



| Cont. Ø                     | Nº Art. | €      |
|-----------------------------|---------|--------|
| 6,3-8,3-10,4-12,4-16,5-20,5 | 40515   | 125,50 |

Ref. **2530**

## AVELLANADOR MANGO CILINDRICO ALLEN

Allen Straight Shank Counterbor

Fraise à Chambrer Allen



HSS

DIN  
373

Allen

Tol. A  
z9

Tol. G  
e8

Tol. d  
h9

Aceros <850 N/mm² Steel

Aceros <1000 N/mm² Steel

INOX Martensítico Stainless

Fundición / Cast Iron / Fonte

Titanio / Titanium

Cobre / Copper / Cuivre

Alum. >10% Si

| M   | A<br>mm | G<br>mm | d<br>mm | L<br>mm | I<br>mm | Z | Nº Art. | €     |
|-----|---------|---------|---------|---------|---------|---|---------|-------|
| M3  | 6,50    | 3,40    | 5,00    | 71      | 14      | 3 | 42029   | 16,70 |
| M4  | 8,00    | 4,50    | 5,00    | 71      | 14      | 3 | 42032   | 16,70 |
| M5  | 10,00   | 5,50    | 8,00    | 80      | 18      | 3 | 42035   | 16,70 |
| M6  | 11,00   | 6,60    | 8,00    | 80      | 18      | 3 | 42038   | 18,83 |
| M8  | 15,00   | 9,00    | 12,50   | 100     | 22      | 3 | 42041   | 23,31 |
| M10 | 18,00   | 11,00   | 12,50   | 100     | 22      | 3 | 42044   | 25,33 |
| M12 | 20,00   | 13,50   | 12,50   | 100     | 22      | 3 | 42047   | 29,99 |
| M14 | 24,00   | 15,50   | 16,00   | 100     | 22      | 4 | 42050   | 41,24 |
| M16 | 26,00   | 17,50   | 16,00   | 100     | 22      | 4 | 42053   | 45,59 |



| Cont.              | Nº Art. | €      |
|--------------------|---------|--------|
| M3-M4-M5-M6-M8-M10 | 40512   | 120,42 |

Ref. **2572**

## AVELLANADOR MANGO CILINDRICO 90°

90° Straight Shank Counterbor

Fraise à Ebavurer 90°



HSSE  
5% Co

DIN  
373



Tol.  
D<sup>+0</sup>  
+0,3

Tol.  
d (h9)

Tol.  
L (± 1)

Tol. ∞<sup>0</sup>  
1

Aceros <850 N/mm² Steel

INOX Martensítico Stainless

Aluminio / Aluminium

| Aplic.<br>mm | D<br>mm | d<br>mm | L<br>mm | Nº Art. | €      |
|--------------|---------|---------|---------|---------|--------|
| 2-5          | 10,00   | 6,00    | 45      | 69183   | 21,47  |
| 5-10         | 14,00   | 8,00    | 48      | 69181   | 28,97  |
| 10-15        | 21,00   | 10,00   | 65      | 69184   | 53,61  |
| 15-20        | 28,00   | 12,00   | 84      | 69187   | 101,93 |
| 20-25        | 35,00   | 15,00   | 102     | 69186   | 144,86 |



| Aplic. mm               | Nº Art. | €      |
|-------------------------|---------|--------|
| 2-5, 5-10, 10-15, 15-20 | 40513   | 213,64 |



# MACHOS Y COJINETES

Taps & Dies

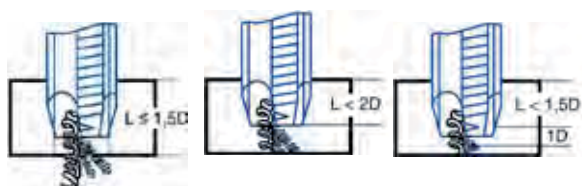
Tarauds et Filières

Ref. **3030**

## JUEGO MACHOS MANO MÉTRICA

Metric Hand Tap Set

Jeu de Tarauds à Main Métrique



HSS

DIN  
352

Tol.  
6H



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

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

Fundición / Cast Iron / Fonte

Cobre / Copper / Cuivre

Aluminio / Aluminium



| M    | P    | L<br>mm | I<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €     |
|------|------|---------|---------|---------|---------|---|---------|-------|
| M2   | 0,40 | 36      | 11      | 2,80    | 2,10    | 3 | 62531   | 25,88 |
| M2,5 | 0,45 | 40      | 12      | 2,80    | 2,10    | 3 | 62534   | 25,88 |
| M3   | 0,50 | 40      | 11      | 3,50    | 2,70    | 3 | 62537   | 14,66 |
| M3,5 | 0,60 | 45      | 13      | 4,00    | 3,00    | 3 | 62540   | 17,25 |
| M4   | 0,70 | 45      | 13      | 4,50    | 3,40    | 3 | 62543   | 14,66 |
| M4,5 | 0,75 | 50      | 16      | 6,00    | 4,90    | 3 | 62546   | 25,88 |
| M5   | 0,80 | 50      | 16      | 6,00    | 4,90    | 3 | 62549   | 15,53 |
| M6   | 1,00 | 56      | 19      | 6,00    | 4,90    | 3 | 62552   | 15,53 |
| M7   | 1,00 | 56      | 19      | 6,00    | 4,90    | 3 | 62555   | 18,97 |
| M8   | 1,25 | 63      | 22      | 6,00    | 4,90    | 4 | 62561   | 18,97 |
| M9   | 1,25 | 63      | 22      | 7,00    | 5,50    | 3 | 62567   | 31,05 |
| M10  | 1,50 | 70      | 24      | 7,00    | 5,50    | 4 | 62573   | 23,31 |
| M11  | 1,50 | 70      | 24      | 8,00    | 6,20    | 3 | 62576   | 38,82 |
| M12  | 1,75 | 75      | 28      | 9,00    | 7,00    | 3 | 62579   | 32,77 |
| M13  | 1,75 | 75      | 28      | 9,00    | 7,00    | 4 | 62582   | 59,50 |
| M14  | 2,00 | 80      | 30      | 11,00   | 9,00    | 4 | 62585   | 36,24 |

| M   | P    | L<br>mm | I<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €      |
|-----|------|---------|---------|---------|---------|---|---------|--------|
| M15 | 2,00 | 80      | 32      | 12,00   | 9,00    | 4 | 62588   | 72,45  |
| M16 | 2,00 | 80      | 32      | 12,00   | 9,00    | 4 | 62591   | 51,42  |
| M18 | 2,50 | 95      | 34      | 14,00   | 11,00   | 4 | 62594   | 68,14  |
| M20 | 2,50 | 95      | 34      | 16,00   | 12,00   | 4 | 62597   | 76,77  |
| M22 | 2,50 | 100     | 34      | 18,00   | 14,50   | 4 | 62603   | 102,66 |
| M24 | 3,00 | 110     | 38      | 18,00   | 14,50   | 4 | 62606   | 120,31 |
| M27 | 3,00 | 110     | 38      | 20,00   | 16,00   | 4 | 62609   | 154,83 |
| M30 | 3,50 | 125     | 45      | 22,00   | 18,00   | 4 | 62612   | 198,37 |
| M33 | 3,50 | 125     | 50      | 25,00   | 20,00   | 4 | 62615   | 250,14 |
| M36 | 4,00 | 150     | 56      | 28,00   | 22,00   | 4 | 62618   | 319,12 |
| M39 | 4,00 | 150     | 60      | 32,00   | 24,00   | 4 | 62621   | 357,11 |
| M42 | 4,50 | 150     | 60      | 32,00   | 24,00   | 4 | 62624   | 446,80 |
| M45 | 4,50 | 160     | 65      | 36,00   | 29,00   | 6 | 73760   | 515,81 |
| M48 | 5,00 | 180     | 70      | 36,00   | 29,00   | 6 | 62627   | 621,04 |
| M52 | 5,00 | 180     | 70      | 40,00   | 32,00   | 6 | 76382   | 753,89 |



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

Fundición / Cast Iron / Fonte

Cobre / Copper / Cuivre

Aluminio / Aluminium



| M   | P    | L<br>mm | I<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €     |
|-----|------|---------|---------|---------|---------|---|---------|-------|
| M3  | 0,50 | 40      | 11      | 3,50    | 2,70    | 3 | 42876   | 14,94 |
| M4  | 0,70 | 45      | 13      | 4,50    | 3,40    | 3 | 42879   | 14,94 |
| M5  | 0,80 | 50      | 16      | 6,00    | 4,90    | 3 | 42882   | 15,83 |
| M6  | 1,00 | 56      | 19      | 6,00    | 4,90    | 3 | 42884   | 15,83 |
| M7  | 1,00 | 56      | 19      | 6,00    | 4,90    | 3 | 42885   | 19,34 |
| M8  | 1,25 | 63      | 22      | 6,00    | 4,90    | 4 | 42886   | 19,34 |
| M10 | 1,50 | 70      | 24      | 7,00    | 5,50    | 4 | 42887   | 23,76 |
| M12 | 1,75 | 75      | 28      | 9,00    | 7,00    | 3 | 42888   | 33,41 |
| M14 | 2,00 | 80      | 30      | 11,00   | 9,00    | 4 | 42889   | 36,94 |
| M16 | 2,00 | 80      | 32      | 12,00   | 9,00    | 4 | 42890   | 52,42 |
| M18 | 2,50 | 95      | 34      | 14,00   | 11,00   | 4 | 42891   | 69,47 |
| M20 | 2,50 | 95      | 34      | 16,00   | 12,00   | 4 | 42892   | 78,26 |

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     | M-8 | M10 |
| Pcs | 2   | 2       | 2       | 2       | 2       | 2   | 2   |

Ref. 4995 - Nº Art. 22298: **670,83 €**

Display  
44

## JUEGO MACHOS MANO MÉTRICA

Metric Hand Tap Set

Jeu de Tarauds à Main Métrique



26 cm

| Ø   | M-4 | M-5 | M-6 | M-8 | M-10 | Ø1 |
|-----|-----|-----|-----|-----|------|----|
| Pcs | 2   | 2   | 2   | 2   | 2    | 2  |

Ref. 4995 - N° Art. 42490: 220,30 €

Ref. 3036

## JUEGO MACHOS MANO MÉTRICA COBALTO INOX

STAINLESS Cobalt Metric Hand Tap Set

Jeu de Tarauds à Main Métrique Cobalt INOX



HSSE  
5% Co

DIN  
352

Tol.  
6H

Vaporiz.

C 2-3h

α  
6-8°

INOX / Stainless Steel

Fundición / Cast Iron / Fonte

\* Con guía / Guided / Avec guide

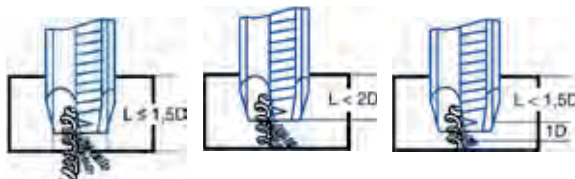


| M   | P    | L<br>mm | l<br>mm | d<br>mm | a<br>mm | Z | N° Art. | €      |
|-----|------|---------|---------|---------|---------|---|---------|--------|
| M3  | 0,50 | 40      | 11      | 3,50    | 2,70    | 3 | 16404   | 27,08  |
| M4  | 0,70 | 45      | 13      | 4,50    | 3,40    | 3 | 16405   | 27,08  |
| M5  | 0,80 | 50      | 16      | 6,00    | 4,90    | 3 | 16406   | 28,19  |
| M6  | 1,00 | 50      | 19      | 6,00    | 4,90    | 3 | 16407   | 28,19  |
| M8  | 1,25 | 56      | 22      | 6,00    | 4,90    | 3 | 16408   | 32,74  |
| M10 | 1,50 | 70      | 24      | 7,00    | 5,50    | 3 | 16409   | 42,11  |
| M12 | 1,75 | 75      | 28      | 9,00    | 7,00    | 3 | 16410   | 60,28  |
| M14 | 2,00 | 80      | 30      | 11,00   | 9,00    | 4 | 16411   | 66,75  |
| M16 | 2,00 | 80      | 32      | 12,00   | 9,00    | 4 | 16412   | 91,48  |
| M18 | 2,50 | 95      | 34      | 14,00   | 11,00   | 4 | 16413   | 124,95 |
| M20 | 2,50 | 95      | 34      | 16,00   | 12,00   | 4 | 16414   | 138,72 |

Ref. **3020****JUEGO MACHOS MANO MÉTRICA FINA**

Metric Fine Hand Tap Set

Jeu de Tarauds à Main Métrique Pas Fin



HSS

DIN  
2181Tol.  
6H $\alpha$   
 $10^\circ \pm 2$ Nº1 Desbaste  
Roughing  
EbaucheNº3 Acabado  
Finishing  
Finition

Aceros &lt;850 N/mm² Steel

Fundición / Cast Iron / Fonte

Cobre / Copper / Cuivre

Aluminio / Aluminium



| MF   | P    | L<br>mm | I<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €      |
|------|------|---------|---------|---------|---------|---|---------|--------|
| MF4  | 0,50 | 45      | 10      | 4,50    | 4,90    | 3 | 62336   | 29,16  |
| MF5  | 0,50 | 50      | 12      | 6,00    | 4,90    | 3 | 62342   | 29,02  |
| MF5  | 0,75 | 50      | 12      | 6,00    | 4,90    | 3 | 62345   | 29,34  |
| MF6  | 0,50 | 50      | 14      | 6,00    | 4,90    | 3 | 62351   | 20,72  |
| MF6  | 0,75 | 50      | 14      | 6,00    | 4,90    | 3 | 62354   | 17,55  |
| MF7  | 0,75 | 50      | 14      | 6,00    | 4,90    | 3 | 62360   | 26,72  |
| MF8  | 0,50 | 50      | 19      | 6,00    | 4,90    | 3 | 62366   | 39,75  |
| MF8  | 0,75 | 50      | 19      | 6,00    | 4,90    | 3 | 62369   | 24,12  |
| MF8  | 1,00 | 56      | 20      | 6,00    | 4,90    | 3 | 62372   | 17,49  |
| MF9  | 1,00 | 63      | 20      | 7,00    | 5,50    | 3 | 75090   | 29,67  |
| MF10 | 0,50 | 63      | 20      | 7,00    | 5,50    | 4 | 21727   | 37,91  |
| MF10 | 0,75 | 63      | 20      | 7,00    | 5,50    | 3 | 76309   | 44,86  |
| MF10 | 1,00 | 63      | 20      | 7,00    | 5,50    | 3 | 62378   | 18,84  |
| MF10 | 1,25 | 70      | 24      | 7,00    | 5,50    | 3 | 62381   | 19,08  |
| MF11 | 0,75 | 63      | 20      | 8,00    | 6,20    | 4 | 16118   | 92,95  |
| MF11 | 1,00 | 63      | 20      | 8,00    | 6,20    | 3 | 76311   | 41,37  |
| MF11 | 1,25 | 63      | 20      | 8,00    | 6,20    | 3 | 75298   | 41,37  |
| MF12 | 0,75 | 70      | 22      | 9,00    | 7,00    | 4 | 76312   | 51,37  |
| MF12 | 1,00 | 70      | 20      | 8,00    | 7,00    | 3 | 62387   | 32,94  |
| MF12 | 1,25 | 70      | 22      | 9,00    | 7,00    | 3 | 62390   | 33,01  |
| MF12 | 1,50 | 70      | 22      | 9,00    | 7,00    | 3 | 62393   | 28,13  |
| MF13 | 0,75 | 70      | 22      | 11,00   | 9,00    | 4 | 56832   | 92,95  |
| MF13 | 1,00 | 70      | 20      | 11,00   | 9,00    | 4 | 76314   | 58,84  |
| MF13 | 1,25 | 70      | 22      | 11,00   | 9,00    | 4 | 76315   | 51,98  |
| MF13 | 1,50 | 70      | 22      | 11,00   | 9,00    | 4 | 62399   | 51,98  |
| MF14 | 0,75 | 70      | 22      | 11,00   | 9,00    | 4 | 56833   | 91,50  |
| MF14 | 1,00 | 70      | 20      | 11,00   | 9,00    | 4 | 62402   | 58,84  |
| MF14 | 1,25 | 70      | 20      | 11,00   | 9,00    | 4 | 62405   | 40,30  |
| MF14 | 1,50 | 70      | 20      | 11,00   | 9,00    | 4 | 62408   | 31,32  |
| MF14 | 1,75 | 80      | 30      | 11,00   | 9,00    | 4 | 10875   | 120,14 |
| MF15 | 1,00 | 70      | 20      | 12,00   | 9,00    | 4 | 76318   | 82,34  |
| MF15 | 1,25 | 70      | 22      | 12,00   | 9,00    | 4 | 76319   | 75,04  |
| MF15 | 1,50 | 70      | 20      | 12,00   | 9,00    | 4 | 75299   | 76,28  |
| MF16 | 1,00 | 70      | 20      | 12,00   | 9,00    | 4 | 62414   | 82,38  |
| MF16 | 1,25 | 70      | 20      | 12,00   | 9,00    | 4 | 76320   | 86,73  |
| MF16 | 1,50 | 70      | 20      | 12,00   | 9,00    | 4 | 62417   | 39,20  |
| MF17 | 1,00 | 70      | 22      | 12,00   | 9,00    | 4 | 76321   | 110,59 |
| MF17 | 1,25 | 70      | 22      | 12,00   | 9,00    | 4 | 56834   | 110,59 |
| MF17 | 1,50 | 70      | 22      | 12,00   | 9,00    | 4 | 62420   | 110,59 |
| MF18 | 1,00 | 80      | 22      | 14,00   | 11,00   | 4 | 62423   | 91,62  |
| MF18 | 1,25 | 80      | 22      | 14,00   | 11,00   | 4 | 76323   | 109,01 |
| MF18 | 1,50 | 80      | 22      | 14,00   | 11,00   | 4 | 62426   | 51,78  |

| MF   | P    | L<br>mm | I<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €      |
|------|------|---------|---------|---------|---------|---|---------|--------|
| MF18 | 2,00 | 80      | 22      | 14,00   | 11,00   | 4 | 62429   | 97,74  |
| MF19 | 1,00 | 80      | 22      | 14,00   | 11,00   | 4 | 10831   | 160,52 |
| MF19 | 1,25 | 80      | 22      | 14,00   | 11,00   | 4 | 56835   | 160,39 |
| MF19 | 1,50 | 80      | 22      | 14,00   | 11,00   | 4 | 76326   | 160,52 |
| MF19 | 2,00 | 80      | 22      | 14,00   | 11,00   | 4 | 56837   | 191,21 |
| MF20 | 1,00 | 80      | 22      | 16,00   | 12,00   | 4 | 76327   | 121,36 |
| MF20 | 1,25 | 80      | 22      | 16,00   | 12,00   | 4 | 74816   | 160,52 |
| MF20 | 1,50 | 80      | 22      | 16,00   | 12,00   | 4 | 62435   | 64,90  |
| MF20 | 2,00 | 80      | 22      | 16,00   | 12,00   | 4 | 62438   | 101,77 |
| MF21 | 1,00 | 80      | 22      | 16,00   | 12,00   | 4 | 56838   | 207,44 |
| MF21 | 1,25 | 80      | 22      | 16,00   | 12,00   | 4 | 56840   | 207,44 |
| MF21 | 1,50 | 80      | 22      | 16,00   | 12,00   | 4 | 75300   | 164,04 |
| MF22 | 1,00 | 80      | 22      | 18,00   | 14,50   | 4 | 76330   | 136,03 |
| MF22 | 1,25 | 80      | 22      | 18,00   | 14,50   | 4 | 74601   | 160,52 |
| MF22 | 1,50 | 80      | 22      | 18,00   | 14,50   | 4 | 62441   | 70,78  |
| MF22 | 2,00 | 80      | 22      | 18,00   | 14,50   | 4 | 62444   | 113,33 |
| MF23 | 1,00 | 80      | 22      | 18,00   | 14,50   | 4 | 56841   | 207,24 |
| MF23 | 1,50 | 80      | 22      | 18,00   | 14,50   | 4 | 56842   | 207,24 |
| MF24 | 1,00 | 90      | 22      | 18,00   | 14,50   | 4 | 76333   | 127,38 |
| MF24 | 1,25 | 90      | 22      | 18,00   | 14,50   | 4 | 62447   | 207,44 |
| MF24 | 1,50 | 90      | 22      | 18,00   | 14,50   | 4 | 62450   | 90,34  |
| MF24 | 2,00 | 90      | 22      | 18,00   | 14,50   | 4 | 62453   | 152,08 |
| MF25 | 1,00 | 90      | 22      | 18,00   | 14,50   | 4 | 76334   | 181,50 |
| MF25 | 1,25 | 90      | 22      | 18,00   | 14,50   | 4 | 56843   | 295,53 |
| MF25 | 1,50 | 90      | 22      | 18,00   | 14,50   | 4 | 75301   | 178,33 |
| MF25 | 2,00 | 90      | 22      | 18,00   | 14,50   | 4 | 56844   | 303,98 |
| MF26 | 1,00 | 90      | 22      | 18,00   | 14,50   | 4 | 56846   | 158,60 |
| MF26 | 1,50 | 90      | 22      | 18,00   | 14,50   | 4 | 75302   | 172,13 |
| MF26 | 2,00 | 90      | 22      | 18,00   | 14,50   | 4 | 56847   | 174,60 |
| MF27 | 1,00 | 90      | 22      | 20,00   | 16,00   | 4 | 76338   | 174,62 |
| MF27 | 1,50 | 90      | 22      | 20,00   | 16,00   | 4 | 76339   | 189,78 |
| MF27 | 2,00 | 90      | 22      | 20,00   | 16,00   | 4 | 75303   | 210,82 |
| MF28 | 1,00 | 90      | 22      | 20,00   | 16,00   | 4 | 76340   | 295,81 |
| MF28 | 1,50 | 90      | 22      | 20,00   | 16,00   | 4 | 76341   | 191,20 |
| MF30 | 1,00 | 90      | 22      | 22,00   | 18,00   | 4 | 76342   | 183,54 |
| MF30 | 1,50 | 90      | 22      | 22,00   | 18,00   | 4 | 76343   | 198,32 |
| MF30 | 2,00 | 90      | 22      | 22,00   | 18,00   | 4 | 75304   | 228,60 |
| MF32 | 1,50 | 90      | 22      | 22,00   | 18,00   | 4 | 76345   | 228,95 |
| MF33 | 1,50 | 100     | 25      | 25,00   | 20,00   | 4 | 76348   | 269,10 |
| MF33 | 2,00 | 100     | 25      | 25,00   | 20,00   | 4 | 75305   | 339,86 |
| MF34 | 1,50 | 100     | 25      | 28,00   | 22,00   | 4 | 76349   | 280,48 |
| MF35 | 1,50 | 100     | 25      | 28,00   | 22,00   | 4 | 76350   | 280,48 |

Ref. **3020****JUEGO MACHOS MANO MÉTRICA FINA**

Metric Fine Hand Tap Set

Jeu de Tarauds à Main Métrique Pas Fin

| MF   | P    | L<br>mm | I<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €      |
|------|------|---------|---------|---------|---------|---|---------|--------|
| MF36 | 1,50 | 100     | 25      | 28,00   | 22,00   | 4 | 76351   | 308,92 |
| MF36 | 2,00 | 125     | 33      | 28,00   | 22,00   | 4 | 76140   | 395,31 |
| MF36 | 3,00 | 125     | 33      | 28,00   | 22,00   | 4 | 76352   | 453,52 |
| MF38 | 1,50 | 100     | 25      | 28,00   | 22,00   | 4 | 76353   | 347,44 |
| MF38 | 2,00 | 125     | 40      | 28,00   | 22,00   | 4 | 75306   | 413,01 |
| MF39 | 1,50 | 110     | 25      | 32,00   | 24,00   | 4 | 76354   | 453,52 |
| MF39 | 2,00 | 125     | 33      | 32,00   | 24,00   | 4 | 76355   | 541,66 |
| MF39 | 3,00 | 125     | 33      | 32,00   | 24,00   | 4 | 76356   | 453,52 |
| MF40 | 1,50 | 110     | 25      | 32,00   | 24,00   | 6 | 76357   | 408,13 |
| MF40 | 2,00 | 110     | 25      | 32,00   | 24,00   | 6 | 76358   | 398,62 |
| MF40 | 3,00 | 125     | 40      | 32,00   | 24,00   | 6 | 76359   | 394,92 |
| MF42 | 2,00 | 125     | 33      | 32,00   | 24,00   | 6 | 76361   | 542,40 |

| MF   | P    | L<br>mm | I<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €      |
|------|------|---------|---------|---------|---------|---|---------|--------|
| MF42 | 3,00 | 125     | 33      | 32,00   | 24,00   | 6 | 76362   | 542,40 |
| MF45 | 1,50 | 110     | 25      | 36,00   | 29,00   | 6 | 76363   | 427,35 |
| MF45 | 2,00 | 125     | 33      | 36,00   | 29,00   | 6 | 76364   | 651,18 |
| MF45 | 3,00 | 125     | 33      | 36,00   | 29,00   | 6 | 76365   | 698,13 |
| MF48 | 1,50 | 140     | 33      | 36,00   | 29,00   | 6 | 76366   | 481,56 |
| MF48 | 2,00 | 140     | 33      | 36,00   | 29,00   | 6 | 76367   | 789,07 |
| MF48 | 3,00 | 140     | 33      | 36,00   | 29,00   | 6 | 76368   | 789,11 |
| MF50 | 1,50 | 140     | 40      | 36,00   | 29,00   | 6 | 76369   | 526,64 |
| MF52 | 1,50 | 140     | 40      | 40,00   | 32,00   | 6 | 76370   | 558,68 |
| MF52 | 2,00 | 140     | 40      | 40,00   | 32,00   | 6 | 77643   | 803,75 |
| MF52 | 3,00 | 140     | 40      | 40,00   | 32,00   | 6 | 76372   | 746,23 |

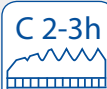
Ref. **3010****MACHO ÚNICO MANO MÉTRICA**

Metric Hand Single Tap

Taraud à Main Unique Métrique



HSS

DIN  
352Tol.  
6H $\alpha$   
 $10^\circ \pm 2$ **Nº3 Acabado**  
Finishing  
Finition**Nº 1 / Nº 2**  
bajo demanda  
upon request  
sur demande

Aceros &lt;850 N/mm² Steel

Fundición / Cast Iron / Fonte

Cobre / Copper / Cuivre

Aluminio / Aluminium



| M    | P    | L<br>mm | I<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €     |
|------|------|---------|---------|---------|---------|---|---------|-------|
| M3   | 0,50 | 40      | 11      | 3,50    | 2,70    | 3 | 76389   | 5,02  |
| M3,5 | 0,60 | 45      | 13      | 4,00    | 3,00    | 3 | 76391   | 5,93  |
| M4   | 0,70 | 45      | 13      | 4,50    | 3,40    | 3 | 76394   | 5,02  |
| M4,5 | 0,75 | 50      | 16      | 6,00    | 4,90    | 3 | 76397   | 8,87  |
| M5   | 0,80 | 50      | 16      | 6,00    | 4,90    | 3 | 76400   | 5,33  |
| M6   | 1,00 | 56      | 19      | 6,00    | 4,90    | 3 | 75383   | 5,33  |
| M7   | 1,00 | 56      | 19      | 6,00    | 4,90    | 3 | 76408   | 6,51  |
| M8   | 1,25 | 56      | 22      | 6,00    | 4,90    | 3 | 75449   | 6,51  |
| M9   | 1,25 | 63      | 22      | 7,00    | 5,50    | 3 | 76414   | 10,64 |
| M10  | 1,50 | 70      | 24      | 7,00    | 5,50    | 3 | 74995   | 7,99  |
| M11  | 1,50 | 70      | 24      | 8,00    | 6,20    | 3 | 76422   | 13,32 |
| M12  | 1,75 | 75      | 29      | 9,00    | 7,00    | 3 | 74996   | 11,25 |
| M14  | 2,00 | 80      | 30      | 11,00   | 9,00    | 4 | 76436   | 12,43 |
| M16  | 2,00 | 80      | 32      | 12,00   | 9,00    | 4 | 76444   | 17,63 |
| M18  | 2,50 | 95      | 40      | 14,00   | 11,00   | 4 | 76452   | 23,37 |
| M20  | 2,50 | 95      | 40      | 16,00   | 12,00   | 4 | 76478   | 26,32 |

| M   | P    | L<br>mm | I<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €      |
|-----|------|---------|---------|---------|---------|---|---------|--------|
| M22 | 2,50 | 100     | 40      | 18,00   | 14,50   | 4 | 76486   | 35,22  |
| M24 | 3,00 | 110     | 50      | 18,00   | 14,50   | 4 | 76493   | 41,27  |
| M27 | 3,00 | 110     | 50      | 20,00   | 16,00   | 4 | 76505   | 53,13  |
| M30 | 1,00 | 90      | 22      | 22,00   | 18,00   | 4 | 16388   | 110,17 |
| M30 | 3,50 | 125     | 56      | 22,00   | 18,00   | 4 | 76512   | 68,05  |
| M33 | 3,50 | 125     | 56      | 25,00   | 20,00   | 4 | 76519   | 85,81  |
| M36 | 4,00 | 150     | 63      | 28,00   | 22,00   | 4 | 76525   | 109,49 |
| M39 | 4,00 | 150     | 63      | 32,00   | 24,00   | 4 | 76531   | 122,50 |
| M42 | 1,50 | 110     | 25      | 32,00   | 24,00   | 6 | 14781   | 227,03 |
| M42 | 4,50 | 150     | 63      | 32,00   | 24,00   | 4 | 76538   | 153,27 |
| M45 | 1,50 | 110     | 25      | 36,00   | 29,00   | 6 | 16389   | 256,49 |
| M45 | 4,50 | 160     | 70      | 36,00   | 29,00   | 6 | 76542   | 176,95 |
| M48 | 1,50 | 140     | 33      | 36,00   | 29,00   | 6 | 16390   | 289,08 |
| M48 | 5,00 | 180     | 75      | 36,00   | 29,00   | 6 | 76546   | 213,04 |
| M52 | 5,00 | 180     | 75      | 40,00   | 32,00   | 6 | 76551   | 258,61 |

Nº 1 y Nº 2 bajo demanda / Nº 1 &amp; Nº 2 upon request / Nº1 et Nº2 sur demande

Ref. **3001****MACHO ÚNICO MANO MÉTRICA**

Metric Hand Tap

Taraud à Main Métrique



HSS

DIN  
352Tol.  
6HNº3 Acabado  
Finishing  
Finition

Aceros &lt;850 N/mm² Steel

Fundición / Cast Iron / Fonte

Cobre / Copper / Cuivre

Aluminio / Aluminium

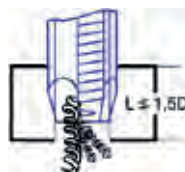


| M   | P    | L<br>mm | l<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €     |
|-----|------|---------|---------|---------|---------|---|---------|-------|
| M3  | 0,50 | 40      | 11      | 3,50    | 2,70    | 3 | 25217   | 4,98  |
| M4  | 0,70 | 45      | 13      | 4,00    | 3,00    | 3 | 25218   | 4,98  |
| M5  | 0,80 | 50      | 16      | 6,00    | 4,90    | 3 | 25219   | 5,28  |
| M6  | 1,00 | 56      | 19      | 6,00    | 4,90    | 3 | 25220   | 5,28  |
| M8  | 1,25 | 56      | 22      | 6,00    | 4,90    | 4 | 25222   | 6,45  |
| M10 | 1,50 | 70      | 24      | 7,00    | 5,50    | 4 | 25224   | 7,92  |
| M12 | 1,75 | 75      | 29      | 9,00    | 7,00    | 3 | 25374   | 11,14 |

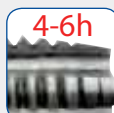
Ref. **3023****MACHO MANO PERFIL ROSCA COMPLETA**

Whole Thread Profile Hand Tap

Taraud À Main Profil Filetage Complet

no  
ve  
dad  
new

HSS

DIN  
352Tol.  
6H $\alpha$   
10° ± 2

Aceros &lt;850 N/mm² Steel

Fundición / Cast Iron / Fonte

Cobre / Copper / Cuivre

Aluminio / Aluminium



Machos únicos 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<br>mm | l<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €     |
|-----|------|---------|---------|---------|---------|---|---------|-------|
| M3  | 0,50 | 40      | 11      | 3,50    | 2,70    | 3 | 46263   | 7,53  |
| M4  | 0,70 | 45      | 13      | 4,50    | 3,40    | 3 | 46264   | 7,53  |
| M5  | 0,80 | 50      | 16      | 6,00    | 4,90    | 3 | 46265   | 8,00  |
| M6  | 1,00 | 50      | 19      | 6,00    | 4,90    | 3 | 46266   | 8,00  |
| M8  | 1,25 | 56      | 22      | 6,00    | 4,90    | 4 | 46267   | 9,77  |
| M10 | 1,50 | 70      | 24      | 7,00    | 5,50    | 4 | 46268   | 11,99 |
| M12 | 1,75 | 75      | 29      | 9,00    | 7,00    | 4 | 46269   | 16,88 |
| M16 | 2,00 | 80      | 32      | 12,00   | 9,00    | 4 | 46270   | 26,45 |
| M20 | 2,50 | 95      | 40      | 16,00   | 12,00   | 4 | 46271   | 39,48 |

**NOVEDAD  
AHORRO**  
**SAVING  
NEW PRODUCT**  
**NOUVEAUTÉ  
ÉCONOMIQUE**



Ref. **3032**

## JUEGO MACHOS MANO WHITWORTH

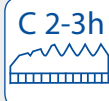
Whitworth Hand Tap Set

Jeu Tarauds à Main Whitworth



HSS

DIN  
352



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

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

Fundición / Cast Iron / Fonte

Cobre / Copper / Cuivre

Aluminio / Aluminium



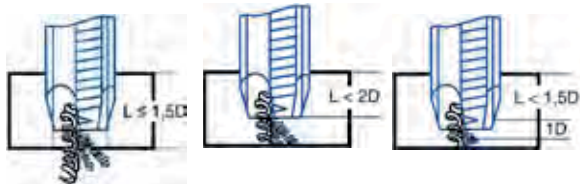
| W       | Hilos<br>Threads<br>Filets | L<br>mm | I<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €      |
|---------|----------------------------|---------|---------|---------|---------|---|---------|--------|
| W3/32   | 48                         | 40      | 9       | 2,80    | 2,10    | 3 | 62663   | 28,59  |
| W1/8    | 40                         | 40      | 14      | 3,50    | 2,70    | 3 | 62642   | 23,26  |
| W5/32   | 32                         | 45      | 17      | 4,50    | 3,40    | 3 | 62675   | 23,26  |
| W3/16   | 24                         | 50      | 19      | 6,00    | 4,90    | 3 | 62660   | 23,26  |
| W7/32   | 24                         | 50      | 19      | 6,00    | 4,90    | 3 | 62684   | 35,16  |
| W1/4    | 20                         | 50      | 20      | 6,00    | 4,90    | 3 | 62633   | 26,47  |
| W5/16   | 18                         | 56      | 20      | 6,00    | 4,90    | 4 | 62669   | 31,51  |
| W3/8    | 16                         | 63      | 22      | 7,00    | 5,50    | 4 | 62654   | 34,86  |
| W7/16   | 14                         | 70      | 22      | 8,00    | 6,20    | 4 | 62681   | 45,66  |
| W1/2    | 12                         | 75      | 25      | 9,00    | 7,00    | 4 | 62630   | 50,45  |
| W9/16   | 12                         | 80      | 26      | 11,00   | 9,00    | 4 | 62687   | 68,15  |
| W5/8    | 11                         | 80      | 27      | 12,00   | 9,00    | 4 | 62666   | 78,83  |
| W3/4    | 10                         | 95      | 32      | 14,00   | 11,00   | 4 | 62645   | 112,21 |
| W7/8    | 9                          | 100     | 32      | 18,00   | 14,50   | 4 | 62678   | 139,35 |
| W1"     | 8                          | 110     | 36      | 18,00   | 14,50   | 4 | 62693   | 172,06 |
| W1" 1/8 | 7                          | 125     | 40      | 22,00   | 18,00   | 4 | 62702   | 255,07 |

Ref. **3012**

## MACHO ÚNICO MANO WHITWORTH

Whitworth Hand Tap

Taraud à Main Whitworth



HSS

DIN  
352



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

**Nº3 Acabado**  
Finishing  
Finition

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

Fundición / Cast Iron / Fonte

Cobre / Copper / Cuivre

Aluminio / Aluminium

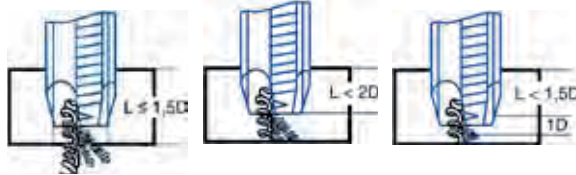


| W       | Hilos<br>Threads<br>Filets | L<br>mm | l<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €      |
|---------|----------------------------|---------|---------|---------|---------|---|---------|--------|
| W3/32   | 48,0                       | 40      | 9       | 2,80    | 2,10    | 3 | 75404   | 9,53   |
| W1/8    | 40,0                       | 40      | 14      | 3,50    | 2,70    | 3 | 75401   | 7,76   |
| W5/32   | 32,0                       | 45      | 17      | 4,50    | 3,40    | 3 | 75069   | 7,76   |
| W3/16   | 24,0                       | 50      | 19      | 6,00    | 4,90    | 3 | 74825   | 7,76   |
| W7/32   | 24,0                       | 50      | 19      | 6,00    | 4,90    | 3 | 75409   | 11,72  |
| W1/4    | 20,0                       | 50      | 20      | 6,00    | 4,90    | 3 | 75400   | 8,81   |
| W5/16   | 18,0                       | 56      | 20      | 6,00    | 4,90    | 4 | 75406   | 10,52  |
| W3/8    | 16,0                       | 63      | 22      | 7,00    | 5,50    | 4 | 75403   | 11,62  |
| W7/16   | 14,0                       | 70      | 22      | 8,00    | 6,20    | 4 | 75408   | 15,23  |
| W1/2    | 12,0                       | 75      | 25      | 9,00    | 7,00    | 4 | 75399   | 16,81  |
| W9/16   | 12,0                       | 80      | 26      | 11,00   | 9,00    | 4 | 75448   | 22,69  |
| W5/8    | 11,0                       | 80      | 27      | 12,00   | 9,00    | 4 | 75405   | 26,28  |
| W3/4    | 10,0                       | 95      | 32      | 14,00   | 11,00   | 4 | 75402   | 37,41  |
| W7/8    | 9,0                        | 100     | 32      | 18,00   | 14,50   | 4 | 75407   | 46,45  |
| W1"     | 8,0                        | 110     | 36      | 18,00   | 14,50   | 4 | 75410   | 57,36  |
| W1" 1/8 | 7,0                        | 125     | 40      | 22,00   | 18,00   | 4 | 76255   | 85,02  |
| W1" 1/4 | 7,0                        | 125     | 40      | 22,00   | 18,00   | 4 | 76259   | 102,39 |
| W1" 3/8 | 6,0                        | 150     | 50      | 28,00   | 22,00   | 4 | 76264   | 127,93 |
| W1" 1/2 | 6,0                        | 150     | 50      | 32,00   | 24,00   | 4 | 76269   | 154,04 |
| W1" 5/8 | 5,0                        | 150     | 56      | 32,00   | 24,00   | 4 | 76274   | 200,98 |
| W1" 3/4 | 5,0                        | 160     | 58      | 36,00   | 29,00   | 4 | 76280   | 247,26 |
| W1" 7/8 | 4,5                        | 180     | 65      | 36,00   | 29,00   | 4 | 76286   | 319,37 |
| W2"     | 4,5                        | 180     | 65      | 40,00   | 32,00   | 4 | 76291   | 335,29 |

Ref. **3026****JUEGO MACHOS MANO GAS (BSP)**

Gas (BSP) Hand Tap Set

Jeu Tarauds à Main Gaz (BSP)



HSS

DIN  
5157 $\alpha$   
 $10^\circ \pm 2$ **Nº1** Desbaste  
Roughing  
Ebauche**Nº3** Acabado  
Finishing  
Finition

Aceros &lt;850 N/mm² Steel

Fundición / Cast Iron / Fonte

Cobre / Copper / Cuivre

Aluminio / Aluminium



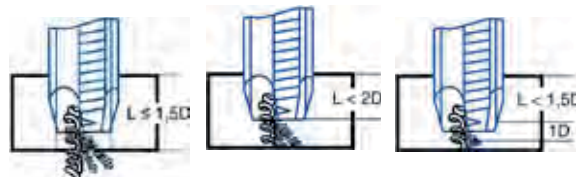
| G    | Hilos<br>Threads<br>Filets | L<br>mm | I<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €      |
|------|----------------------------|---------|---------|---------|---------|---|---------|--------|
| G1/8 | 28                         | 63      | 20      | 7       | 5,50    | 4 | 62510   | 23,86  |
| G1/4 | 19                         | 70      | 22      | 11      | 9,00    | 4 | 62504   | 33,55  |
| G3/8 | 19                         | 70      | 22      | 12      | 9,00    | 4 | 62516   | 42,16  |
| G1/2 | 14                         | 80      | 22      | 16      | 12,00   | 4 | 62498   | 59,16  |
| G5/8 | 14                         | 80      | 22      | 18      | 14,50   | 4 | 62522   | 75,68  |
| G3/4 | 14                         | 90      | 22      | 20      | 16,00   | 4 | 62513   | 92,37  |
| G7/8 | 14                         | 90      | 22      | 22      | 18,00   | 4 | 62525   | 123,21 |
| G1"  | 11                         | 100     | 25      | 25      | 20,00   | 4 | 62528   | 146,38 |

| G       | Hilos<br>Threads<br>Filets | L<br>mm | I<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €      |
|---------|----------------------------|---------|---------|---------|---------|---|---------|--------|
| G1" 1/8 | 11                         | 125     | 40      | 28      | 22,00   | 4 | 76195   | 270,68 |
| G1" 1/4 | 11                         | 125     | 40      | 32      | 24,00   | 6 | 76203   | 295,00 |
| G1" 3/8 | 11                         | 125     | 40      | 36      | 29,00   | 6 | 76211   | 400,70 |
| G1" 1/2 | 11                         | 140     | 40      | 36      | 29,00   | 6 | 74823   | 445,87 |
| G1" 3/4 | 11                         | 140     | 40      | 40      | 32,00   | 6 | 76225   | 741,26 |
| G2"     | 11                         | 160     | 40      | 45      | 35,00   | 6 | 76231   | 821,70 |

Ref. **3016****MACHO ÚNICO MANO GAS (BSP)**

Gas (BSP) Hand Tap

Taraud à Main Gaz (BSP)



HSS

DIN  
5157 $\alpha$   
 $10^\circ \pm 2$ **Nº3** Acabado  
Finishing  
Finition

Aceros &lt;850 N/mm² Steel

Fundición / Cast Iron / Fonte

Cobre / Copper / Cuivre

Aluminio / Aluminium



| G    | Hilos<br>Threads<br>Filets | L<br>mm | I<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €     |
|------|----------------------------|---------|---------|---------|---------|---|---------|-------|
| G1/8 | 28                         | 63      | 20      | 17      | 5,50    | 4 | 75461   | 11,94 |
| G1/4 | 19                         | 70      | 22      | 11      | 9,00    | 4 | 75460   | 16,79 |
| G3/8 | 19                         | 70      | 22      | 12      | 9,00    | 4 | 75462   | 21,09 |
| G1/2 | 14                         | 80      | 22      | 16      | 12,00   | 4 | 75459   | 29,57 |
| G5/8 | 14                         | 80      | 22      | 18      | 14,50   | 4 | 75463   | 37,84 |
| G3/4 | 14                         | 90      | 22      | 20      | 16,00   | 4 | 75106   | 46,17 |
| G7/8 | 14                         | 90      | 22      | 22      | 18,00   | 4 | 76246   | 61,60 |
| G1"  | 11                         | 100     | 25      | 25      | 20,00   | 4 | 75464   | 73,19 |

| G       | Hilos<br>Threads<br>Filets | L<br>mm | I<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €      |
|---------|----------------------------|---------|---------|---------|---------|---|---------|--------|
| G1" 1/8 | 11                         | 125     | 40      | 28      | 22,00   | 4 | 76196   | 135,33 |
| G1" 1/4 | 11                         | 125     | 40      | 32      | 24,00   | 4 | 76204   | 147,49 |
| G1" 3/8 | 11                         | 125     | 40      | 36      | 29,00   | 6 | 76212   | 200,36 |
| G1" 1/2 | 11                         | 140     | 40      | 36      | 29,00   | 6 | 76218   | 222,93 |
| G1" 3/4 | 11                         | 140     | 40      | 40      | 32,00   | 6 | 76226   | 370,62 |
| G2"     | 11                         | 160     | 40      | 45      | 35,00   | 6 | 76232   | 410,85 |

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  
Renforcé

B3,5-5h  
GUN

Tol.  
6H

α  
10 -12°

Aceros <850 N/mm² Steel

Cobre / Copper / Cuivre

Aluminio / Aluminium



| M    | P    | L<br>mm | I<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €     |
|------|------|---------|---------|---------|---------|---|---------|-------|
| M2   | 0,40 | 45      | 9       | 2,80    | 2,10    | 3 | 62771   | 14,91 |
| M2,5 | 0,45 | 50      | 9       | 2,80    | 2,10    | 3 | 76724   | 14,91 |
| M2,6 | 0,45 | 50      | 9       | 2,80    | 2,10    | 3 | 76725   | 14,91 |
| M3   | 0,50 | 56      | 11      | 3,50    | 2,70    | 3 | 62774   | 8,47  |
| M3,5 | 0,60 | 56      | 13      | 4,00    | 3,00    | 3 | 62777   | 13,40 |
| M4   | 0,70 | 63      | 13      | 4,50    | 3,40    | 3 | 62780   | 8,93  |
| M4,5 | 0,75 | 70      | 16      | 6,00    | 4,90    | 3 | 76728   | 20,29 |
| M5   | 0,80 | 70      | 16      | 6,00    | 4,90    | 3 | 62783   | 8,93  |
| M6   | 1,00 | 80      | 19      | 6,00    | 4,90    | 3 | 62789   | 9,82  |
| M7   | 1,00 | 80      | 19      | 7,00    | 5,50    | 3 | 76733   | 15,54 |
| M8   | 1,25 | 90      | 22      | 8,00    | 6,20    | 3 | 62795   | 10,99 |
| M10  | 1,50 | 100     | 24      | 10,00   | 8,00    | 3 | 62807   | 13,52 |

M3, M4, M5, M6, M10: \*Tol. 6G bajo demanda

\*Tol. 6G upon request / \*Tol. 6G sur demande



Cont. 25 pcs

Nº Art.

€

Machos / Taps / Tarauds

DIN 371: M4-M5-M6-M8-M10 38998 260,95  
(5 pcs x M)



Cont. 7 pcs

Nº Art.

€

Machos /

Taps / Tarauds

DIN 371: M3-M4-M5-  
M6-M8-M10  
+ DIN 376: M12

43348

86,57



Cont. 14 pcs

Nº Art.

€

Machos /

Taps / Tarauds

DIN 371: M3-M4-M5-  
M6-M8-M10  
+ DIN 376: M12

43354

98,09

Brocas /

Twist Drills / Forets

HSS: 2,5-3,3-4,2-5,0-6,8-  
8,5-10,2



Cont. 14 pcs

Nº Art.

€

Machos /

Taps / Tarauds

DIN 371: M3-M4-M5-  
M6-M8-M10  
+ DIN 376: M12

21801

105,76

Brocas /

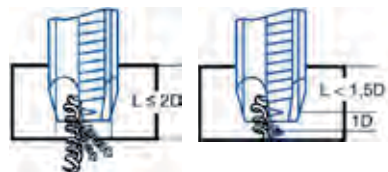
Twist Drills / Forets

HSSE: 2,5-3,3-4,2-5,0-  
6,8-8,5-10,2

Ref. **3200**

## MACHO RECTO MÁQUINA MÉTRICA

Metric Machine Straight Tap  
Taraud Droit Machine Métrique



HSSE  
5% Co

DIN  
376

Métrica



Tol.  
6H

$\alpha$   
10 -12°

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

Cobre / Copper / Cuivre

Aluminio / Aluminium



| M   | P    | L<br>mm | I<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €      |
|-----|------|---------|---------|---------|---------|---|---------|--------|
| M3  | 0,50 | 56      | 11      | 2,20    |         |   | 70090   | 9,04   |
| M4  | 0,70 | 63      | 13      | 2,80    | 2,10    | 3 | 70092   | 9,14   |
| M5  | 0,80 | 70      | 16      | 3,50    | 2,70    | 3 | 70093   | 9,14   |
| M6  | 1,00 | 80      | 19      | 4,50    | 3,40    | 3 | 70095   | 10,05  |
| M7  | 1,00 | 80      | 19      | 5,50    | 4,30    | 3 | 70224   | 15,95  |
| M8  | 1,25 | 90      | 22      | 6,00    | 4,90    | 3 | 70096   | 11,29  |
| M10 | 1,50 | 100     | 24      | 7,00    | 4,50    | 3 | 70098   | 13,89  |
| M11 | 1,50 | 100     | 24      | 8,00    | 6,20    | 3 | 70225   | 26,80  |
| M12 | 1,75 | 110     | 29      | 9,00    | 7,00    | 3 | 70183   | 17,11  |
| M14 | 2,00 | 110     | 30      | 11,00   | 9,00    | 3 | 70185   | 27,46  |
| M16 | 2,00 | 110     | 32      | 12,00   | 9,00    | 3 | 70186   | 32,31  |
| M18 | 2,50 | 125     | 34      | 14,00   | 11,00   | 3 | 75215   | 45,77  |
| M20 | 2,50 | 140     | 34      | 16,00   | 12,00   | 3 | 70189   | 49,48  |
| M22 | 2,50 | 140     | 34      | 18,00   | 14,50   | 3 | 70212   | 59,85  |
| M24 | 3,00 | 160     | 38      | 18,00   | 14,50   | 4 | 70213   | 71,16  |
| M27 | 3,00 | 160     | 38      | 20,00   | 16,00   | 4 | 70215   | 89,18  |
| M30 | 3,50 | 180     | 45      | 22,00   | 18,00   | 4 | 70216   | 114,58 |
| M33 | 3,50 | 180     | 50      | 25,00   | 20,00   | 4 | 70218   | 144,12 |
| M36 | 4,00 | 200     | 56      | 28,00   | 22,00   | 4 | 70219   | 176,08 |



Cont. 25 pcs

Nº Art.

€

Machos / Taps / Tarauds  
DIN 376: M4-M5-M6-M8-M10  
(5 pcs x M)

39000

267,55

M12, M14, M16: \*Tol. 6G bajo demanda / \*Tol. 6G upon request / \*Tol. 6G sur demande

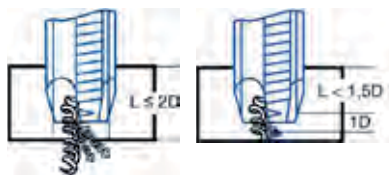


Ref. **3200**

## MACHO RECTO MÁQUINA MÉTRICA FINA

Metric Fine Machine Straight Tap

Taraud Droit Machine Métrique Pas Fin



HSSE  
5% Co

DIN  
374

Métrica  
Fina



Tol.  
6H

$\alpha$   
10-12°

Aceros <850 N/mm² Steel

Cobre / Copper / Cuivre

Aluminio / Aluminium



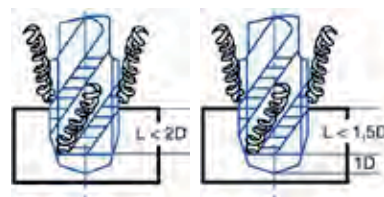
| M    | P    | L<br>mm | I<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €      |
|------|------|---------|---------|---------|---------|---|---------|--------|
| MF8  | 0,75 | 80      | 19      | 6       | 4,90    | 3 | 70267   | 23,28  |
| MF8  | 1,00 | 90      | 22      | 6       | 4,90    | 3 | 70248   | 18,87  |
| MF10 | 1,00 | 90      | 20      | 7       | 5,50    | 3 | 70249   | 21,03  |
| MF10 | 1,25 | 100     | 24      | 7       | 5,50    | 3 | 70251   | 25,06  |
| MF12 | 1,00 | 100     | 22      | 9       | 7,00    | 3 | 70252   | 27,69  |
| MF12 | 1,25 | 100     | 22      | 9       | 7,00    | 3 | 70254   | 27,96  |
| MF12 | 1,50 | 100     | 22      | 9       | 7,00    | 3 | 70255   | 24,97  |
| MF14 | 1,00 | 100     | 22      | 11      | 9,00    | 3 | 70281   | 42,45  |
| MF14 | 1,25 | 100     | 22      | 11      | 9,00    | 3 | 70257   | 37,21  |
| MF14 | 1,50 | 100     | 22      | 11      | 9,00    | 3 | 70258   | 29,56  |
| MF15 | 1,50 | 100     | 22      | 12      | 9,00    | 3 | 70282   | 47,12  |
| MF16 | 1,50 | 100     | 22      | 12      | 9,00    | 3 | 70260   | 36,96  |
| MF18 | 1,00 | 110     | 25      | 14      | 11,00   | 3 | 70284   | 59,13  |
| MF18 | 1,50 | 110     | 25      | 14      | 11,00   | 3 | 70261   | 46,23  |
| MF18 | 2,00 | 125     | 34      | 14      | 11,00   | 3 | 70285   | 59,68  |
| MF20 | 1,00 | 125     | 25      | 16      | 12,00   | 4 | 70287   | 78,05  |
| MF20 | 1,50 | 125     | 25      | 16      | 12,00   | 4 | 70263   | 52,28  |
| MF20 | 2,00 | 140     | 34      | 16      | 12,00   | 4 | 70288   | 68,56  |
| MF22 | 1,50 | 125     | 25      | 18      | 14,50   | 4 | 75216   | 62,99  |
| MF22 | 2,00 | 140     | 34      | 18      | 14,50   | 4 | 70290   | 99,82  |
| MF24 | 1,50 | 140     | 28      | 18      | 14,50   | 4 | 70264   | 77,43  |
| MF24 | 2,00 | 140     | 28      | 18      | 14,50   | 4 | 70291   | 97,88  |
| MF26 | 1,50 | 140     | 28      | 18      | 14,50   | 4 | 70293   | 99,51  |
| MF27 | 2,00 | 140     | 28      | 20      | 16,00   | 4 | 70294   | 135,71 |
| MF28 | 1,50 | 140     | 28      | 20      | 16,00   | 4 | 70296   | 113,81 |
| MF30 | 1,50 | 150     | 28      | 22      | 18,00   | 4 | 70266   | 118,87 |
| MF32 | 1,50 | 150     | 28      | 22      | 18,00   | 4 | 70297   | 142,26 |
| MF33 | 1,50 | 160     | 30      | 25      | 20,00   | 4 | 70299   | 162,65 |
| MF33 | 2,00 | 160     | 30      | 25      | 20,00   | 4 | 70300   | 277,65 |
| MF35 | 1,50 | 170     | 30      | 28      | 22,00   | 4 | 70302   | 188,42 |
| MF45 | 1,50 | 180     | 32      | 36      | 29,00   | 6 | 70303   | 330,12 |

Ref. **3150**

## MACHO HELICOIDAL MÁQUINA MÉTRICA M. REFORZADO

Reinforced Shank Metric Machine Spiral Tap

Taraud Hélicoïdal Machine Métrique Queue Renforcée



HSSE  
5% Co

DIN  
371

Reforzado  
Reinforced  
Renforcé

C 2-3h

35°

$\alpha$   
10° ± 2

Aceros <850 N/mm² Steel

Cobre / Copper / Cuivre

Aluminio / Aluminium



| M    | P    | L<br>mm | I<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €     |
|------|------|---------|---------|---------|---------|---|---------|-------|
| M3   | 0,50 | 56      | 5       | 3,50    | 2,70    | 3 | 63050   | 11,14 |
| M3,5 | 0,60 | 56      | 6       | 4,00    | 3,00    | 3 | 63053   | 16,40 |
| M4   | 0,70 | 63      | 7       | 4,50    | 3,40    | 3 | 63056   | 11,14 |
| M5   | 0,80 | 70      | 8       | 6,00    | 4,90    | 3 | 63059   | 10,64 |
| M6   | 1,00 | 80      | 10      | 6,00    | 4,90    | 3 | 63062   | 11,69 |
| M7   | 1,00 | 80      | 10      | 7,00    | 5,50    | 3 | 63065   | 18,20 |
| M8   | 1,25 | 90      | 13      | 8,00    | 6,20    | 3 | 63071   | 13,35 |
| M10  | 1,50 | 100     | 15      | 10,00   | 8,00    | 3 | 63083   | 15,84 |

M12, M14, M16: \*Tol. 6G bajo demanda

\*Tol. 6G upon request / \*Tol. 6G sur demande



Cont. 25 pcs

Nº Art.

€

Machos / Taps / Tarauds

DIN 371: M4-M5-M6-M8-M10 38999 313,30  
(5 pcs x M)



Cont. 7 pcs

Nº Art.

€

Machos /

Taps / Tarauds

DIN 371: M3-M4-M5- 43353 98,42  
M6-M8-M10  
+ DIN 376: M12



Cont. 14 pcs

Nº Art.

€

Machos /

Taps / Tarauds

DIN 371: M3-M4-M5- 43359 109,94  
M6-M8-M10  
+ DIN 376: M12

Brocas /

Twist Drills / Forets

HSS: 2,5-3,3-4,2-5,0-6,8-  
8,5-10,2



Cont. 14 pcs

Nº Art.

€

Machos /

Taps / Tarauds

DIN 371: M3-M4-M5- 21802 117,58  
M6-M8-M10  
+ DIN 376: M12

Brocas /

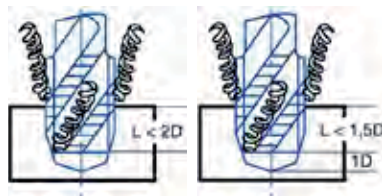
Twist Drills / Forets

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% CoDIN  
376

Métrica

Tol.  
6H $\alpha$   
 $10^\circ \pm 2$ 

Aceros &lt;850 N/mm² Steel

Cobre / Copper / Cuivre

Aluminio / Aluminium



| M   | P    | L<br>mm | I<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €      |
|-----|------|---------|---------|---------|---------|---|---------|--------|
| M3  | 0,50 | 56      | 5       | 2,20    |         | 3 | 70063   | 10,87  |
| M4  | 0,70 | 63      | 7       | 2,80    | 2,10    | 3 | 70065   | 10,78  |
| M5  | 0,80 | 70      | 8       | 3,50    | 2,70    | 3 | 70066   | 10,32  |
| M6  | 1,00 | 80      | 10      | 4,50    | 3,40    | 3 | 70068   | 11,32  |
| M8  | 1,25 | 90      | 13      | 6,00    | 4,90    | 3 | 70069   | 13,27  |
| M10 | 1,50 | 100     | 15      | 7,00    | 5,50    | 3 | 70071   | 15,77  |
| M12 | 1,75 | 110     | 18      | 9,00    | 7,00    | 3 | 70161   | 20,29  |
| M14 | 2,00 | 110     | 20      | 11,00   | 9,00    | 3 | 70162   | 31,85  |
| M16 | 2,00 | 110     | 20      | 12,00   | 9,00    | 4 | 70164   | 38,48  |
| M18 | 2,50 | 125     | 25      | 14,00   | 11,00   | 4 | 75057   | 51,81  |
| M20 | 2,50 | 140     | 25      | 16,00   | 12,00   | 4 | 70167   | 55,14  |
| M22 | 2,50 | 140     | 25      | 18,00   | 14,50   | 4 | 70206   | 68,04  |
| M24 | 3,00 | 160     | 30      | 18,00   | 14,50   | 4 | 70207   | 81,44  |
| M27 | 3,00 | 160     | 30      | 20,00   | 16,00   | 4 | 70209   | 101,73 |
| M30 | 3,50 | 180     | 35      | 22,00   | 18,00   | 4 | 70210   | 130,30 |

M12, M14, M16: \*Tol. 6G bajo demanda

\*Tol. 6G upon request / \*Tol. 6G sur demande



Cont. 25 pcs

Nº Art.

€

Machos / Taps / Tarauds

DIN 376: M4-M5-M6-M8-M10 39001 307,30  
(5 pcs x M)HSSE  
5% CoDIN  
374Métrica  
FinaTol.  
6H $\alpha$   
 $10^\circ \pm 2$ 

Aceros &lt;850 N/mm² Steel

Cobre / Copper / Cuivre

Aluminio / Aluminium



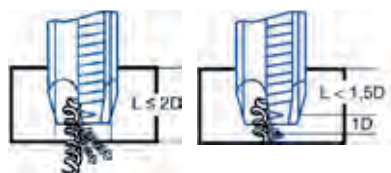
| M    | P    | L<br>mm | I<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €     |
|------|------|---------|---------|---------|---------|---|---------|-------|
| MF8  | 1,00 | 90      | 13      | 6       | 4,90    | 3 | 70228   | 22,37 |
| MF10 | 1,00 | 90      | 12      | 7       | 5,50    | 3 | 70230   | 26,37 |
| MF10 | 1,25 | 100     | 15      | 7       | 5,50    | 3 | 70231   | 28,70 |
| MF12 | 1,00 | 100     | 14      | 9       | 7,00    | 3 | 70233   | 32,75 |
| MF12 | 1,25 | 100     | 14      | 9       | 7,00    | 3 | 70234   | 31,34 |
| MF12 | 1,50 | 100     | 14      | 9       | 7,00    | 3 | 70236   | 30,16 |
| MF14 | 1,25 | 100     | 16      | 11      | 9,00    | 3 | 70237   | 46,30 |
| MF14 | 1,50 | 100     | 16      | 11      | 9,00    | 3 | 70239   | 37,07 |

| M    | P    | L<br>mm | I<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €      |
|------|------|---------|---------|---------|---------|---|---------|--------|
| MF16 | 1,50 | 100     | 16      | 12      | 9,00    | 4 | 70240   | 45,58  |
| MF18 | 1,50 | 110     | 20      | 14      | 11,00   | 4 | 70242   | 55,06  |
| MF20 | 1,50 | 125     | 20      | 16      | 12,00   | 4 | 70243   | 62,89  |
| MF22 | 1,50 | 125     | 20      | 18      | 14,50   | 4 | 75192   | 82,30  |
| MF24 | 1,50 | 140     | 22      | 18      | 14,50   | 4 | 70245   | 92,18  |
| MF30 | 1,50 | 150     | 28      | 22      | 18,00   | 3 | 70246   | 141,74 |

Ref. **3109****MACHO RECTO MÁQUINA MÉTRICA ISO MANGO REFORZADO**

Reinforced Shank ISO Standard Metric Machine Straight Tap

Taraud Droit Machine Metrique Norme ISO Queue Renforcée

no  
ve  
dad  
new

HSS

ISO  
529B 4-5h  
Tol.  
6H $\alpha$   
 $10^\circ \pm 2$  $\alpha$   
10-12°

Aceros &lt;850 N/mm² Steel

Cobre / Copper / Cuivre

Aluminio / Aluminium

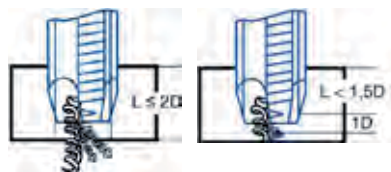


| M   | P    | L<br>mm | l<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €     |
|-----|------|---------|---------|---------|---------|---|---------|-------|
| M3  | 0,50 | 56      | 11      | 3,50    | 2,70    | 3 | 38180   | 6,56  |
| M4  | 0,70 | 63      | 13      | 4,50    | 3,40    | 3 | 38182   | 6,56  |
| M5  | 0,80 | 70      | 16      | 6,00    | 4,90    | 3 | 38373   | 6,56  |
| M6  | 1,00 | 80      | 19      | 6,00    | 4,90    | 3 | 38185   | 6,56  |
| M8  | 1,25 | 90      | 22      | 8,00    | 6,20    | 3 | 38187   | 8,76  |
| M10 | 1,50 | 100     | 24      | 10,00   | 8,00    | 3 | 38188   | 11,14 |

Ref. **3207****MACHO RECTO MÁQUINA MÉTRICA NORMA ISO**

ISO Standard Metric Machine Straight Tap

Taraud Droit Machine Metrique Norme ISO

no  
ve  
dad  
new

HSS

ISO  
529B 4-5h  
Tol.  
6H $\alpha$   
 $10^\circ \pm 2$  $\alpha$   
10-12°

Aceros &lt;850 N/mm² Steel

Cobre / Copper / Cuivre

Aluminio / Aluminium

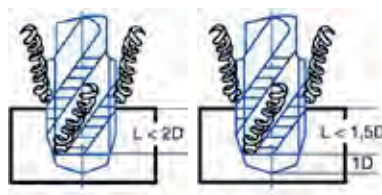


| M   | P    | L<br>mm | l<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €     |
|-----|------|---------|---------|---------|---------|---|---------|-------|
| M12 | 1,75 | 89      | 29      | 9,00    | 7,10    | 3 | 38189   | 14,32 |
| M14 | 2,00 | 95      | 30      | 11,20   | 9,00    | 3 | 38190   | 17,12 |
| M16 | 2,00 | 102     | 32      | 12,50   | 10,00   | 3 | 38191   | 21,27 |
| M18 | 2,50 | 112     | 37      | 14,00   | 11,20   | 3 | 38192   | 32,02 |
| M20 | 2,50 | 112     | 37      | 14,00   | 11,20   | 3 | 38193   | 35,79 |
| M22 | 2,50 | 118     | 38      | 16,00   | 12,50   | 3 | 38194   | 41,38 |
| M24 | 3,00 | 130     | 45      | 18,00   | 14,00   | 3 | 38195   | 46,75 |
| M27 | 3,00 | 135     | 45      | 20,00   | 16,00   | 3 | 38196   | 57,57 |
| M30 | 3,50 | 138     | 48      | 20,00   | 16,00   | 3 | 38197   | 85,53 |

Ref. **3157****MACHO HELICOIDAL MÁQUINA MÉTRICA ISO M. REFORZADO**

Reinforced Shank ISO Standard Metric Machine Spiral Tap

Taraud Hélicoïdal Machine Metrique Norme ISO Queue Renforcée

no  
ve  
dad  
new

HSS

ISO  
529

C 1-2h

Tol.  
6H $\alpha$   
 $10^\circ \pm 2$ 

35°

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

Aceros &lt;850 N/mm² Steel

Cobre / Copper / Cuivre

Aluminio / Aluminium

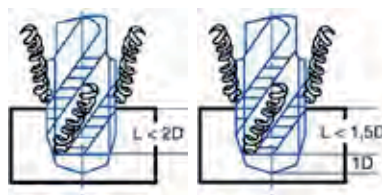


| M   | P    | L<br>mm | I<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €     |
|-----|------|---------|---------|---------|---------|---|---------|-------|
| M3  | 0,50 | 56      | 5       | 3,50    | 2,70    | 3 | 38198   | 7,90  |
| M4  | 0,70 | 63      | 7       | 4,50    | 3,40    | 3 | 38201   | 7,90  |
| M5  | 0,80 | 70      | 8       | 6,00    | 4,90    | 3 | 38206   | 7,90  |
| M6  | 1,00 | 80      | 10      | 6,00    | 4,90    | 3 | 38209   | 8,08  |
| M8  | 1,25 | 90      | 13      | 8,00    | 6,20    | 3 | 38214   | 9,06  |
| M10 | 1,50 | 100     | 15      | 10,00   | 8,00    | 3 | 38216   | 11,68 |

Ref. **3247****MACHO HELICOIDAL MÁQUINA MÉTRICA NORMA ISO**

ISO Standard Metric Machine Spiral Tap

Taraud Hélicoïdal Machine Metrique Norme ISO

no  
ve  
dad  
new

HSS

ISO  
529

C 1-2h

Tol.  
6H $\alpha$   
 $10^\circ \pm 2$ 

35°

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

Aceros &lt;850 N/mm² Steel

Cobre / Copper / Cuivre

Aluminio / Aluminium



| M   | P    | L<br>mm | I<br>mm | d<br>mm | a<br>mm | Z | Nº Art. | €     |
|-----|------|---------|---------|---------|---------|---|---------|-------|
| M12 | 1,75 | 89      | 29      | 9,00    | 7,10    | 3 | 38226   | 15,17 |
| M14 | 2,00 | 95      | 30      | 11,20   | 9,00    | 3 | 38228   | 20,73 |
| M16 | 2,00 | 102     | 32      | 12,50   | 10,00   | 3 | 38229   | 24,05 |



Ref. **3500****COJINETE MANO MÉTRICA / MÉTRICA FINA**

Metric / Metric Fine Hand Die

Filière à Main Metrique / Metrique Pas Fin



Métrica

 $\alpha$   
10-17°Chaflán Entrada 1,75h  
Chamfer 1,75 Threads  
Chanfrein 1,75 Filets

HSS

DIN  
223Tol.  
6g

| M    | P    | D<br>mm | E<br>mm | Nº Art. | €     |
|------|------|---------|---------|---------|-------|
| M2   | 0,40 | 16      | 5       | 63191   | 23,09 |
| M2,5 | 0,45 | 16      | 5       | 75001   | 23,09 |
| M3   | 0,50 | 20      | 5       | 63194   | 19,53 |
| M3,5 | 0,60 | 20      | 5       | 63197   | 23,09 |
| M4   | 0,70 | 20      | 5       | 63200   | 19,53 |
| M4,5 | 0,75 | 20      | 5       | 77028   | 21,32 |
| M5   | 0,80 | 20      | 5       | 63203   | 19,53 |
| M6   | 1,00 | 20      | 7       | 63206   | 19,53 |
| M7   | 1,00 | 25      | 9       | 63209   | 21,32 |
| M8   | 1,25 | 25      | 9       | 63215   | 21,32 |
| M9   | 1,25 | 25      | 9       | 63218   | 28,41 |
| M10  | 1,50 | 30      | 11      | 63227   | 28,41 |
| M11  | 1,50 | 30      | 11      | 63230   | 37,29 |
| M12  | 1,75 | 38      | 14      | 63242   | 30,18 |
| M14  | 2,00 | 38      | 14      | 63260   | 30,18 |
| M16  | 2,00 | 45      | 18      | 63272   | 40,83 |

| M   | P    | D<br>mm | E<br>mm | Nº Art. | €      |
|-----|------|---------|---------|---------|--------|
| M18 | 2,50 | 45      | 18      | 63284   | 40,83  |
| M20 | 2,50 | 45      | 18      | 63293   | 40,83  |
| M22 | 2,50 | 55      | 22      | 63302   | 60,37  |
| M24 | 3,00 | 55      | 22      | 63311   | 60,37  |
| M27 | 3,00 | 65      | 25      | 63314   | 90,55  |
| M30 | 3,50 | 65      | 25      | 63317   | 90,55  |
| M33 | 3,50 | 65      | 26      | 77090   | 94,11  |
| M36 | 4,00 | 65      | 25      | 77097   | 94,11  |
| M39 | 4,00 | 75      | 30      | 77103   | 143,79 |
| M42 | 4,50 | 75      | 30      | 77110   | 143,79 |
| M45 | 4,50 | 90      | 36      | 77115   | 225,47 |
| M48 | 5,00 | 90      | 36      | 77119   | 225,47 |
| M52 | 5,00 | 90      | 36      | 77124   | 225,47 |



Cont. 7 pcs

Nº Art.

€

Cojinetes / Dies / Filières

DIN 223: M3-M4-M5-M6-M8-  
M10-M12

56518

158,03

Métrica  
Fina $\alpha$   
10-17°Chaflán Entrada 1,75h  
Chamfer 1,75 Threads  
Chanfrein 1,75 Filets

HSS

DIN  
223Tol.  
6g

| MF   | P    | D<br>mm | E<br>mm | Nº Art. | €     |
|------|------|---------|---------|---------|-------|
| MF4  | 0,50 | 20      | 5       | 77025   | 31,74 |
| MF5  | 0,50 | 20      | 5       | 77029   | 34,09 |
| MF6  | 0,50 | 20      | 7       | 77034   | 34,09 |
| MF6  | 0,75 | 20      | 7       | 77035   | 30,61 |
| MF8  | 0,75 | 25      | 9       | 77039   | 33,19 |
| MF8  | 1,00 | 25      | 9       | 63212   | 33,19 |
| MF9  | 1,00 | 25      | 9       | 77041   | 36,92 |
| MF10 | 0,75 | 30      | 11      | 77043   | 51,65 |
| MF10 | 1,00 | 30      | 11      | 63221   | 40,60 |
| MF10 | 1,25 | 30      | 11      | 63224   | 44,05 |
| MF11 | 1,00 | 30      | 11      | 77045   | 50,51 |
| MF11 | 1,25 | 30      | 11      | 77046   | 55,09 |
| MF12 | 1,00 | 38      | 10      | 63233   | 51,36 |
| MF12 | 1,25 | 38      | 10      | 63236   | 51,36 |
| MF12 | 1,50 | 38      | 10      | 63239   | 45,91 |
| MF14 | 1,00 | 38      | 10      | 63251   | 52,70 |
| MF14 | 1,25 | 38      | 10      | 63254   | 56,12 |
| MF14 | 1,50 | 38      | 10      | 63257   | 47,99 |

| MF   | P    | D<br>mm | E<br>mm | Nº Art. | €      |
|------|------|---------|---------|---------|--------|
| MF15 | 1,50 | 38      | 10      | 77053   | 65,78  |
| MF16 | 1,00 | 45      | 14      | 63266   | 71,29  |
| MF16 | 1,50 | 45      | 14      | 63269   | 65,92  |
| MF18 | 1,00 | 45      | 14      | 77057   | 74,54  |
| MF18 | 1,50 | 45      | 14      | 63278   | 65,92  |
| MF18 | 2,00 | 45      | 14      | 63281   | 74,54  |
| MF20 | 1,00 | 45      | 14      | 77061   | 74,21  |
| MF20 | 1,50 | 45      | 14      | 63287   | 68,03  |
| MF20 | 2,00 | 45      | 14      | 63290   | 74,75  |
| MF22 | 1,00 | 55      | 16      | 77066   | 101,35 |
| MF22 | 1,50 | 55      | 16      | 63296   | 87,21  |
| MF22 | 2,00 | 55      | 16      | 63299   | 97,00  |
| MF24 | 1,00 | 55      | 16      | 77069   | 97,00  |
| MF24 | 1,50 | 55      | 16      | 77070   | 87,21  |
| MF24 | 2,00 | 55      | 16      | 63308   | 97,01  |
| MF25 | 1,50 | 55      | 16      | 77073   | 118,52 |
| MF26 | 1,50 | 55      | 16      | 77076   | 119,90 |
| MF27 | 1,50 | 65      | 18      | 77656   | 131,84 |

| MF   | P    | D<br>mm | E<br>mm | Nº Art. | €      |
|------|------|---------|---------|---------|--------|
| MF27 | 2,00 | 65      | 18      | 77079   | 143,42 |
| MF30 | 1,50 | 65      | 18      | 77083   | 131,82 |
| MF30 | 2,00 | 65      | 18      | 75310   | 147,22 |
| MF32 | 1,50 | 65      | 18      | 77085   | 139,32 |
| MF33 | 1,50 | 65      | 18      | 77088   | 131,84 |
| MF35 | 1,50 | 65      | 18      | 77093   | 142,68 |
| MF36 | 1,50 | 65      | 18      | 75311   | 135,05 |
| MF36 | 2,00 | 65      | 18      | 77095   | 143,56 |
| MF40 | 1,50 | 75      | 20      | 77104   | 213,07 |
| MF42 | 2,00 | 75      | 20      | 77108   | 313,18 |
| MF45 | 1,50 | 90      | 22      | 77112   | 280,18 |
| MF50 | 1,50 | 90      | 22      | 77120   | 280,18 |
| MF52 | 1,50 | 90      | 22      | 77121   | 280,18 |

Ref. **3005****TERRAJA MONOBLOCK METAL**METAL Monoblock Die  
Filière Monoblock METAL

HSS

DIN  
223Mano  
Hand  
MainTol.  
6g $\alpha$   
10-17°

| M  | P    | D<br>mm | Nº Art. | €     |
|----|------|---------|---------|-------|
| M3 | 0,50 | 20      | 25226   | 19,87 |
| M4 | 0,70 | 20      | 25227   | 19,87 |
| M5 | 0,80 | 20      | 25228   | 19,87 |
| M6 | 1,00 | 20      | 25229   | 20,25 |

| M   | P    | D<br>mm | Nº Art. | €     |
|-----|------|---------|---------|-------|
| M8  | 1,25 | 25      | 25231   | 21,33 |
| M10 | 1,50 | 30      | 25233   | 28,14 |
| M12 | 1,75 | 38      | 25581   | 29,89 |

Display  
**43**Ref.  
3005  
Pcs

|  | M-4 | M-5 | M-6 | M-8 | M-10 | M-12 |
|--|-----|-----|-----|-----|------|------|
|  | 2   | 2   | 2   | 2   | 2    | 2    |

Ref. 4995 - Nº Art. 32964: **278,70 €**Ref. **3536****COJINETE MANO MÉTRICA INOX**STAINLESS Metric Hand Die  
Filière à Main Metrique INOXHSSE  
5% CoDIN  
22568Tol.  
6gHSSE  
5% Co $\alpha$   
10-17°Chaflán Entrada 2,25h  
Chamfer 2,25 Threads / Chanfrein 2,25 Filets

INOX / Stainless Steel



| M  | P    | D<br>mm | E<br>mm | Nº Art. | €     |
|----|------|---------|---------|---------|-------|
| M3 | 0,50 | 20      | 5       | 34255   | 18,52 |
| M4 | 0,70 | 20      | 5       | 34256   | 18,52 |
| M5 | 0,80 | 20      | 7       | 34257   | 18,52 |
| M6 | 1,00 | 20      | 7       | 34258   | 21,69 |

| M   | P    | D<br>mm | E<br>mm | Nº Art. | €     |
|-----|------|---------|---------|---------|-------|
| M8  | 1,25 | 25      | 9       | 34259   | 23,35 |
| M10 | 1,50 | 30      | 11      | 34260   | 27,30 |
| M12 | 1,75 | 38      | 14      | 34261   | 40,39 |
| M14 | 2,00 | 38      | 14      | 34262   | 40,39 |

| M   | P    | D<br>mm | E<br>mm | Nº Art. | €     |
|-----|------|---------|---------|---------|-------|
| M16 | 2,00 | 45      | 18      | 34263   | 56,01 |
| M18 | 2,50 | 45      | 18      | 34264   | 56,01 |
| M20 | 2,50 | 45      | 18      | 34265   | 56,01 |

Ref. **3510****COJINETE MANO MÉTRICA ISO**ISO Metric Hand Die  
Filière à Main Metrique ISOno  
ve  
dad  
new

HSS

ISO  
529 $\alpha$   
10-17°Forma  
A  
FormTol.  
6g

| M   | P    | D<br>mm | E<br>mm | Nº Art. | €     |
|-----|------|---------|---------|---------|-------|
| M3  | 0,50 | 25,4    | 9,5     | 38230   | 7,53  |
| M4  | 0,70 | 25,4    | 9,5     | 38231   | 7,53  |
| M5  | 0,80 | 25,4    | 9,5     | 38232   | 7,53  |
| M6  | 1,00 | 25,4    | 9,5     | 38233   | 7,53  |
| M7  | 1,00 | 25,4    | 9,5     | 38234   | 8,84  |
| M8  | 1,25 | 25,4    | 9,5     | 38235   | 7,96  |
| M10 | 1,50 | 25,4    | 9,5     | 38237   | 10,14 |
| M12 | 1,75 | 25,4    | 9,5     | 38238   | 10,14 |

| M   | P    | D<br>mm | E<br>mm | Nº Art. | €     |
|-----|------|---------|---------|---------|-------|
| M8  | 1,25 | 38,1    | 12,7    | 38239   | 23,59 |
| M10 | 1,50 | 38,1    | 12,7    | 38240   | 24,57 |
| M12 | 1,75 | 38,1    | 12,7    | 38242   | 24,57 |
| M14 | 2,00 | 38,1    | 12,7    | 38243   | 24,57 |
| M16 | 2,00 | 38,1    | 12,7    | 38244   | 24,57 |
| M18 | 2,50 | 38,1    | 12,7    | 38245   | 36,36 |
| M20 | 2,50 | 38,1    | 12,7    | 38246   | 36,36 |

| M   | P    | D<br>mm | E<br>mm | Nº Art. | €     |
|-----|------|---------|---------|---------|-------|
| M18 | 2,50 | 50,8    | 15,9    | 38250   | 44,22 |
| M20 | 2,50 | 50,8    | 15,9    | 38251   | 44,22 |
| M22 | 2,50 | 50,8    | 15,9    | 38252   | 44,22 |
| M24 | 3,00 | 50,8    | 15,9    | 38253   | 46,18 |

Ref. **3502**

## COJINETE MANO WHITWORTH

Whitworth Hand Die  
Filière à Main Whitworth



HSS

$\alpha$   
10-17°

W

DIN  
223

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

| W       | P  | D<br>mm | E<br>mm | Nº Art. | €      |
|---------|----|---------|---------|---------|--------|
| W3/32   | 48 | 16      | 5       | 63344   | 36,29  |
| W1/8    | 40 | 20      | 5       | 63329   | 29,31  |
| W5/32   | 32 | 20      | 7       | 63356   | 30,54  |
| W3/16   | 24 | 20      | 7       | 63341   | 30,54  |
| W7/32   | 24 | 20      | 7       | 63365   | 40,04  |
| W1/4    | 20 | 20      | 7       | 63323   | 29,31  |
| W5/16   | 18 | 25      | 9       | 63350   | 30,54  |
| W3/8    | 16 | 30      | 11      | 63335   | 44,24  |
| W7/16   | 14 | 30      | 11      | 63362   | 44,24  |
| W1/2    | 12 | 38      | 14      | 63320   | 44,24  |
| W9/16   | 12 | 38      | 14      | 63368   | 52,97  |
| W5/8    | 11 | 45      | 18      | 63347   | 64,34  |
| W3/4    | 10 | 45      | 18      | 63332   | 64,34  |
| W7/8    | 9  | 55      | 22      | 63359   | 94,62  |
| W1"     | 8  | 55      | 22      | 63374   | 94,62  |
| W1" 1/8 | 7  | 65      | 25      | 63383   | 148,93 |

Ref. **3506**

## COJINETE MANO GAS (BSP)

Gas (BSP) Hand Die  
Filière à Main Gas (BSP)



HSS

$\alpha$   
10-17°

Gas  
(BSP)

DIN  
24231

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

| G       | P  | D<br>mm | E<br>mm | Nº Art. | €      |
|---------|----|---------|---------|---------|--------|
| G1/8    | 28 | 30      | 11      | 63461   | 38,70  |
| G1/4    | 19 | 38      | 10      | 63455   | 38,70  |
| G3/8    | 19 | 45      | 14      | 63467   | 50,07  |
| G1/2    | 14 | 45      | 14      | 63452   | 50,07  |
| G3/4    | 14 | 55      | 16      | 63464   | 103,76 |
| G5/8    | 14 | 55      | 16      | 75496   | 76,39  |
| G7/8    | 14 | 65      | 18      | 76252   | 108,61 |
| G1"     | 11 | 65      | 18      | 63470   | 108,61 |
| G1" 1/8 | 11 | 75      | 20      | 76202   | 198,94 |
| G1" 1/4 | 11 | 75      | 20      | 76210   | 198,94 |

Ref. **3191****GIRA-MACHOS**Tap Wrench  
Porte-TaraudDIN  
1814

| Mod. | Uso<br>Use<br>Usage | L<br>mm | Cuadradillo<br>Square / Carré<br>mm | Nº Art. | €     |
|------|---------------------|---------|-------------------------------------|---------|-------|
| 000  | M1-M8               | 125     | 2,10-4,90                           | 69826   | 11,51 |
| 010  | M1-M10              | 180     | 2,10-5,50                           | 69828   | 12,56 |
| 015  | M1-M12              | 200     | 2,10-7,00                           | 69829   | 13,71 |
| 020  | M4-M12              | 280     | 3,40-7,00                           | 69831   | 16,80 |

| Mod. | Uso<br>Use<br>Usage | L<br>mm | Cuadradillo<br>Square / Carré<br>mm | Nº Art. | €      |
|------|---------------------|---------|-------------------------------------|---------|--------|
| 030  | M5-M20              | 375     | 4,90-12,00                          | 69832   | 24,50  |
| 040  | M11-M27             | 500     | 6,20-16,00                          | 69834   | 40,63  |
| 050  | M13-M32             | 750     | 7,00-20,00                          | 69835   | 80,42  |
| 060  | M25-M52             | 1250    | 16,00-32,00                         | 26694   | 161,72 |

Nº 060 Acero / Steel / Acier

Ref. **3912****GIRA-MACHOS CRIQUÉ**Tap Wrench  
Porte-Taraud"T" +  
Criqué

| Mod. | d<br>mm | L<br>mm | Cap.<br>mm | Nº Art. | €     |
|------|---------|---------|------------|---------|-------|
| 01   | M3-M10  | 85      | 2,4-5,5    | 25340   | 20,45 |
| 02   | M5-M12  | 100     | 4,5-8,0    | 25341   | 27,78 |
| 10   | M3-M10  | 250     | 2,4-5,5    | 25342   | 32,25 |
| 20   | M5-M12  | 300     | 4,5-8,0    | 25343   | 38,48 |

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 Art. | €     |
|------|-----------------------------------|-----------------------------------|---------|---------|---------|-------|
| 010  | M3-M6                             | 1/8-1/4                           | 2,50    | 2,70    | 40639   | 2,73  |
| 020  | M6-M8                             | 1/4-5/16                          | 3,00    | 3,80    | 40641   | 2,73  |
| 030  | M8-M11                            | 5/16-7/16                         | 4,50    | 4,90    | 40642   | 2,86  |
| 040  | M11-M14                           | 7/16-9/16                         | 6,00    | 7,00    | 40644   | 4,03  |
| 050  | M15-M18                           | 9/16-3/4                          | 8,00    | 9,00    | 40645   | 6,31  |
| 060  | M18-M24                           | 3/4-1                             | 11,00   | 12,00   | 40647   | 10,03 |

**INSTRUCCIONES USO:**

- 1- Taladrar un Agujero Central con la Broca apropiada
- 2- Girar el Extractor hacia la izquierda hasta extraer el Tornillo

**DIRECTIONS FOR USE:**

- 1- Drill a Central Hole using a proper Drill
- 2- Turn Left the Extractor until the Screw is out

**INSTRUCTIONS D'EMPLOI:**

- 1- Percez un trou central avec le foret convenable
- 2- Tournez l'Extracteur à gauche jusqu'à sortir la vis

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| P/ Tornillo<br>F/ Screw<br>P/ Vis | P/ Tornillo<br>F/ Screw<br>P/ Vis | Nº Art. | €     |
|-----------------------------------|-----------------------------------|---------|-------|
| M3-M24                            | 1/8-1                             | 75905   | 18,66 |

Ref. **3181****PORTA-COJINETES**Die Holder  
Porte FilièresDIN  
225

| Mod. | D<br>mm | E<br>mm | M         | W               | G               | Nº ART. | €      |
|------|---------|---------|-----------|-----------------|-----------------|---------|--------|
| 000  | 16      | 5       | M1-M2,6   | W1/16-W3/32     |                 | 69792   | 7,03   |
| 010  | 20      | 5       | M3-M4     | W1/8-W5/32      |                 | 69790   | 8,00   |
| 020  | 20      | 7       | M4,5-M6   | W3/16-W1/4      |                 | 69798   | 8,00   |
| 030  | 25      | 9       | M7-M9     | W5/16           | G1/16           | 69799   | 9,17   |
| 040  | 30      | 11      | M10-M11   | W3/8-W7/16      | G1/8            | 69811   | 11,95  |
| 050  | 38      | 14      | M12-M15   | W1/2-W9/16      |                 | 69813   | 14,45  |
| 060  | 38      | 10      | MF12-MF15 |                 | G1/4            | 69814   | 14,45  |
| 070  | 45      | 18      | M16-M20   | W5/8-W3/4       |                 | 69816   | 17,88  |
| 080  | 45      | 14      | MF16-MF20 |                 | G3/8-G1/2       | 69817   | 17,88  |
| 090  | 55      | 22      | M22-M24   | W7/8-W1         |                 | 69819   | 24,03  |
| 100  | 55      | 16      | MF21-MF26 |                 | G5/8-G3/4       | 69795   | 24,03  |
| 110  | 65      | 25      | M27-M36   | W1 1/8 - W1 3/8 |                 | 69796   | 33,70  |
| 120  | 65      | 18      | MF27-MF36 |                 | G7/8-G1         | 30484   | 33,70  |
| 130  | 75      | 30      | M39-M42   | W1 1/2 - W1 5/8 |                 | 32600   | 110,07 |
| 140  | 75      | 20      | MF38-MF42 |                 | G1 1/8 - G1 1/4 | 43515   | 110,07 |
| 150  | 90      | 36      | M45-M52   | W1 3/4 - W2     |                 | 43516   | 160,40 |
| 160  | 90      | 22      | MF45-MF52 |                 | G1 1/2          | 43517   | 160,40 |

Ref. **3184****PORTA-COJINETES ISO 529**ISO 529 Die Holder  
Porte Filières ISO 529DIN  
225

| D mm  | E mm  | M       | W          | Nº Art. | €     |
|-------|-------|---------|------------|---------|-------|
| 25,40 | 9,50  | M3-M12  | W1/8-W1/2  | 43317   | 9,13  |
| 38,10 | 12,70 | M8-M20  | W5/16-W3/4 | 43318   | 13,64 |
| 50,80 | 15,90 | M18-M24 | W11/16-W1  | 43319   | 19,71 |

Ref. **3415****ACEITE ROSCADO**Threading Oil  
Lubrifiant TaraudageViscosidad a 40°C  
Viscosity / Viscosité:  
33 cStTest Reichert 1,5 Kg:  
< 4 mm<sup>2</sup>

| Cont.<br>L | Nº Art. | €     | Cont.<br>L | Nº Art. | €      | Cont.<br>L | Nº Art. | €     | Cont.<br>L | Nº Art. | €      |
|------------|---------|-------|------------|---------|--------|------------|---------|-------|------------|---------|--------|
| 0,50       | 21541   | 10,92 | 5,00       | 21597   | 87,31  | 0,40       | 14923   | 13,90 | 12x0,40    | 23102   | 158,41 |
|            |         |       | 25,00      | 41256   | 375,43 |            |         |       |            |         |        |



Ref. **3405****JUEGO MACHOS MANO MÉTRICA**

Metric Hand Tap Set

Jeu de Tarauds à Main Métrique

| Cont.                                                                 | Nº Art. | €             |
|-----------------------------------------------------------------------|---------|---------------|
| <b>Juegos Machos / Tap Sets / Jeux Tarauds</b> M3-M4-M5-M6-M8-M10-M12 | 69624   | <b>108,81</b> |
| <b>Brocas / Twist Drills / Forets mm</b> 2,5-3,3-4,2-5,0-6,8-8,5-10,2 |         |               |
| <b>Gira-Machos / Tap-Wrench / Porte-Tarauds</b> M1-M12                |         |               |

Ref. **3406****JUEGO MACHOS MANO MÉTRICA**

Metric Hand Tap Set

Jeu de Tarauds à Main Métrique

| Mod. 0 - Cont.                                                        | Nº Art. | €             |
|-----------------------------------------------------------------------|---------|---------------|
| <b>Juegos Machos / Tap Sets / Jeux Tarauds</b> M3-M4-M5-M6-M8-M10-M12 | 70527   | <b>155,61</b> |
| <b>Gira-Machos / Tap-Wrench / Porte-Tarauds</b> M1-M12                |         |               |
| <b>Gira-Machos / Tap-Wrench / Porte-Tarauds</b> Crique M3-M10 Ratchet |         |               |
| <b>Cojinetes / Dies / Filières</b> M3-M4-M5-M6-M8-M10-M12             |         |               |
| <b>Porta-Cojinetes / Die Holder / Porte-Filières</b> 25x9             |         |               |
| <b>Galga / Gauge / Gabarit</b> 1 pc                                   |         |               |
| <b>Destornillador / Screwdriver / Tournevis</b> 1 pc                  |         |               |



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| Mod. 1 - Cont.                                                                             | Nº Art. | €             |
|--------------------------------------------------------------------------------------------|---------|---------------|
| <b>Juegos Machos / Tap Sets / Jeux Tarauds</b> M3-M4-M5-M6-M8-M10-M12-M14-M16-M18-M20      | 38404   | <b>365,21</b> |
| <b>Gira-Machos / Tap-Wrench / Porte-Tarauds</b> M1-M12, M5-M20                             |         |               |
| <b>Gira-Machos / Tap-Wrench / Porte-Tarauds</b> Crique M3-M10 + M5-M12 Ratchet             |         |               |
| <b>Cojinetes / Dies / Filières</b> M3-M4-M5-M6-M8-M10-M12-M14-M16-M18-M20                  |         |               |
| <b>Porta-Cojinetes / Die Holder / Porte-Filières</b> 20x5, 20x7, 25x9, 30x11, 38x14, 45x18 |         |               |
| <b>Galga / Gauge / Gabarit</b> 1 pc                                                        |         |               |
| <b>Destornillador / Screwdriver / Tournevis</b> 1 pc                                       |         |               |



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| Mod. 2 - Cont.                                                                      | Nº Art. | €             |
|-------------------------------------------------------------------------------------|---------|---------------|
| <b>Juegos Machos / Tap Sets / Jeux Tarauds</b> M3-M4-M5-M6-M8-M10-M12               | 38981   | <b>182,61</b> |
| <b>Gira-Machos / Tap-Wrench / Porte-Tarauds</b> M1-M10, M4-M12                      |         |               |
| <b>Gira-Machos / Tap-Wrench / Porte-Tarauds</b> Crique M3-M10 Ratchet               |         |               |
| <b>Cojinetes / Dies / Filières</b> M3-M4-M5-M6-M8-M10-M12                           |         |               |
| <b>Porta-Cojinetes / Die Holder / Porte-Filières</b> 20x5, 20x7, 25x9, 30x11, 38x14 |         |               |
| <b>Galga / Gauge / Gabarit</b> 1 pc                                                 |         |               |
| <b>Destornillador / Screwdriver / Tournevis</b> 1 pc                                |         |               |
| <b>Brocas / Twist Drills / Forets mm</b> 2,5-3,3-4,2-5,0-6,8-8,5-10,2               |         |               |



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# 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

### 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

### 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.

### Advantages

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

### Examples of Applications

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

### Description

Usure et trop de pression dans la fixation de la vis son 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.

### Avantages

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

### Exemples d'applications

- Soutien pour fileter aciers avec faible résistances (alliage 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 twist drill
- 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 retirer les copeaux
- 4- Insérer 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  
File Rapportesno  
ve  
dad!  
new

HSS

M/MF

Aleaciones Alum. Alloys

Aleaciones Mg Alloys



| M   | P    |    | 1xD     |      | 1,5xD   |      | 2xD     |      | 2,5xD   |      |
|-----|------|----|---------|------|---------|------|---------|------|---------|------|
|     |      |    | Nº Art. | €    | Nº Art. | €    | Nº Art. | €    | Nº Art. | €    |
| M3  | 0,50 | 50 | 56287   | 0,19 | 56288   | 0,19 | 56289   | 0,21 | 56291   | 0,25 |
| M4  | 0,70 | 50 | 56293   | 0,19 | 56294   | 0,19 | 56297   | 0,21 | 56299   | 0,25 |
| M5  | 0,80 | 50 | 56302   | 0,21 | 56303   | 0,19 | 56304   | 0,25 | 56306   | 0,29 |
| M6  | 1,00 | 50 | 56310   | 0,21 | 56311   | 0,19 | 56312   | 0,25 | 56313   | 0,29 |
| M7  | 1,00 | 50 | 56316   | 0,23 | 56318   | 0,27 | 56319   | 0,29 | 56320   | 0,35 |
| M8  | 1,00 | 50 | 56322   | 0,25 | 56324   | 0,27 | 56325   | 0,33 | 56326   | 0,42 |
| M8  | 1,25 | 50 | 56332   | 0,23 | 56333   | 0,25 | 56334   | 0,31 | 56336   | 0,40 |
| M9  | 1,25 | 50 | 56339   | 0,33 | 56340   | 0,40 | 56341   | 0,46 | 56342   | 0,48 |
| M10 | 1,00 | 50 | 56344   | 0,27 | 56345   | 0,31 | 56346   | 0,38 | 56347   | 0,46 |
| M10 | 1,25 | 50 | 56349   | 0,27 | 56351   | 0,31 | 56352   | 0,38 | 56353   | 0,46 |
| M10 | 1,50 | 50 | 56355   | 0,27 | 56357   | 0,31 | 56360   | 0,38 | 56361   | 0,46 |
| M11 | 1,50 | 50 | 56363   | 0,42 | 56364   | 0,56 | 56365   | 0,60 | 56366   | 0,75 |
| M12 | 1,00 | 50 | 56369   | 0,35 | 56371   | 0,50 | 56372   | 0,58 | 56373   | 0,69 |
| M12 | 1,25 | 25 | 56375   | 0,35 | 56377   | 0,50 | 56378   | 0,58 | 56379   | 0,69 |
| M12 | 1,50 | 25 | 56384   | 0,35 | 56385   | 0,50 | 56387   | 0,58 | 56388   | 0,69 |
| M12 | 1,75 | 25 | 56390   | 0,35 | 56391   | 0,50 | 56392   | 0,58 | 56393   | 0,69 |
| M14 | 1,00 | 25 | 56395   | 0,77 | 56396   | 0,79 | 56397   | 0,92 | 56399   | 1,10 |
| M14 | 1,25 | 25 | 56401   | 0,65 | 56402   | 0,73 | 56403   | 0,77 | 56404   | 0,92 |
| M14 | 1,50 | 25 | 56406   | 0,65 | 56407   | 0,73 | 56408   | 0,77 | 56409   | 0,92 |
| M14 | 2,00 | 25 | 58844   | 0,65 | 58845   | 0,73 | 58846   | 0,77 | 58847   | 0,92 |
| M16 | 1,50 | 25 | 56411   | 0,85 | 56412   | 0,90 | 56413   | 1,13 | 56414   | 1,23 |
| M16 | 2,00 | 25 | 56417   | 0,85 | 56419   | 0,90 | 56420   | 1,13 | 56422   | 1,23 |
| M18 | 2,00 | 25 | 56425   | 1,25 | 56427   | 1,46 | 56430   | 1,98 | 56431   | 2,25 |
| M18 | 2,50 | 25 | 56434   | 1,25 | 56436   | 1,46 | 56439   | 1,98 | 56440   | 2,25 |
| M22 | 2,50 | 10 | 56445   | 1,60 | 56446   | 1,98 | 56448   | 2,52 | 56451   | 2,88 |
| M24 | 2,00 | 10 | 56454   | 1,98 | 56457   | 2,08 | 56458   | 2,65 | 56460   | 3,48 |
| M24 | 3,00 | 10 | 56464   | 1,98 | 56466   | 2,08 | 56467   | 2,65 | 56473   | 3,48 |

Ref. **3305****MACHO PARA INSERTO REPARACIÓN ROSCAS**

Thread Repair Insert Tap

Taraud Filet Rapportes

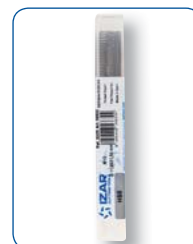


HSS

M/MF

Aleaciones Alum. Alloys

Aleaciones Mg Alloys



| M   | P    | D<br>mm | d<br>mm | L<br>mm | I<br>mm | a<br>mm | Z | D Broca<br>Drill Bit / Foret<br>mm | Nº Art. | €     |
|-----|------|---------|---------|---------|---------|---------|---|------------------------------------|---------|-------|
| M3  | 0,50 | 3,65    | 4,00    | 53      | 13      | 3,15    | 3 | 3,10                               | 56615   | 7,57  |
| M4  | 0,70 | 4,91    | 5,00    | 58      | 16      | 4,00    | 3 | 4,10                               | 56617   | 8,19  |
| M5  | 0,80 | 6,04    | 6,30    | 66      | 19      | 5,00    | 3 | 5,20                               | 56620   | 8,31  |
| M6  | 1,00 | 7,30    | 8,00    | 72      | 22      | 6,30    | 3 | 6,20                               | 56622   | 8,31  |
| M7  | 1,00 | 8,30    | 9,00    | 72      | 22      | 7,10    | 3 | 7,20                               | 56623   | 11,63 |
| M8  | 1,00 | 9,30    | 10,00   | 80      | 24      | 8,00    | 3 | 8,20                               | 56628   | 11,63 |
| M8  | 1,25 | 9,62    | 10,00   | 80      | 24      | 8,00    | 3 | 8,30                               | 56626   | 10,85 |
| M9  | 1,25 | 10,60   | 8,00    | 85      | 25      | 6,30    | 3 | 9,30                               | 56629   | 14,23 |
| M10 | 1,00 | 11,30   | 8,00    | 85      | 25      | 6,30    | 3 | 10,30                              | 56638   | 14,23 |
| M10 | 1,25 | 11,62   | 8,00    | 85      | 25      | 6,30    | 3 | 10,30                              | 56634   | 14,23 |
| M10 | 1,50 | 11,95   | 9,00    | 89      | 29      | 7,10    | 3 | 10,30                              | 56632   | 14,23 |
| M11 | 1,50 | 12,95   | 9,00    | 89      | 29      | 7,10    | 3 | 11,50                              | 56640   | 16,10 |
| M12 | 1,00 | 13,30   | 11,20   | 95      | 30      | 9,00    | 3 | 12,30                              | 56646   | 19,67 |
| M12 | 1,25 | 13,62   | 11,20   | 95      | 30      | 9,00    | 3 | 12,30                              | 56648   | 19,67 |
| M12 | 1,50 | 13,95   | 11,20   | 95      | 30      | 9,00    | 3 | 12,50                              | 56647   | 19,67 |
| M12 | 1,75 | 14,27   | 11,20   | 95      | 30      | 9,00    | 3 | 12,40                              | 56644   | 15,27 |
| M14 | 1,00 | 15,30   | 12,50   | 102     | 32      | 10,00   | 3 | 14,30                              | 56650   | 22,38 |
| M14 | 1,25 | 15,62   | 12,50   | 102     | 32      | 10,00   | 3 | 14,30                              | 56652   | 22,38 |
| M14 | 1,50 | 15,95   | 12,50   | 102     | 32      | 10,00   | 3 | 14,30                              | 56651   | 22,38 |
| M14 | 2,00 | 16,70   | 12,50   | 102     | 38      | 10,00   | 4 | 14,50                              | 58849   | 22,38 |
| M16 | 1,50 | 18,00   | 14,00   | 104     | 29      | 11,20   | 4 | 16,25                              | 56654   | 26,79 |
| M16 | 2,00 | 18,60   | 14,00   | 112     | 37      | 11,20   | 4 | 16,50                              | 56653   | 26,79 |
| M18 | 2,00 | 20,60   | 14,00   | 104     | 29      | 11,20   | 4 | 18,50                              | 56657   | 33,92 |
| M18 | 2,50 | 21,30   | 16,00   | 118     | 38      | 12,50   | 4 | 18,25                              | 56656   | 33,92 |
| M22 | 2,50 | 25,30   | 18,00   | 130     | 45      | 14,00   | 4 | 22,50                              | 56658   | 42,90 |
| M24 | 2,00 | 26,60   | 20,00   | 127     | 37      | 16,00   | 4 | 24,25                              | 56660   | 54,25 |
| M24 | 3,00 | 27,90   | 20,00   | 138     | 48      | 16,00   | 4 | 24,75                              | 56659   | 54,25 |

Ref. **3310****SET REPARACIÓN ROSCAS**Thread Repair Set  
Set Filet Rapportesno  
ve  
dad  
new

HSS

M/MF

Aleaciones Alum. Alloys

Aleaciones Mg Alloys

**Cont. M5-M12**

Nº Art.

€

**Insertos / Inserts / Rapportes (1xD)** M5x0,8 - M6x1 - M8x1,25 - M10x1,5 (25 pcs x M)  
+ M12x1,75 (10 pcs)**Brocas / Twist Drills / Forets (D mm)** 5,2 - 6,2 - 8,3 - 10,3 - 12,4**Machos / Taps / Tarauds (D mm)** 6,04 - 7,30 - 9,62 - 11,95 - 14,27**Insertadores / Fitting Tools / Appareils de pose (D mm)** 3,2 - 4,4 - 5,7 - 7,5 - 9,0**Rompe arrastres / Pin-Breakers / Rupteurs (D mm)** 3,60 - 4,50 - 6,20 - 7,85 - 9,00

56481

**244,19**Ref. **3311****SET REPARACIÓN ROSCAS BUJIAS**Spark Plug Thread Repair Set  
Set Filet Rapportes Bougiesno  
ve  
dad  
new

HSS

M/MF



Aleaciones Alum. Alloys

Aleaciones Mg Alloys

**Cont. M8-M14**

Nº Art.

€

**Insertos / Inserts / Rapportes (1xD)** M8x1 - M8x1,25 - M10x1,5 (25 pcs x M)  
+ M12x1,75 - M14x1,25 (10 pcs x M)**Brocas / Twist Drills / Forets (D mm)** 6,2 - 8,3 - 10,3 - 12,4**Machos / Taps / Tarauds (D mm)** 7,30 - 9,62 - 11,95 - 14,27 - 15,60**Insertadores / Fitting Tools / Appareils de pose (D mm)** 4,4 - 5,7 - 7,5 - 9,0 - 10,8**Rompe arrastres / Pin-Breakers / Rupteurs (D mm)** 4,50 - 6,20 - 7,85 - 9,00 - 10,00

56482

**281,40**



Ref. **3312****SET REPARACIÓN ROSCAS COMPLETO**Complete Thread Repair Set  
Set Filet Rapportes Completno  
ve  
dad  
new

HSS

M/MF

Aleaciones Alum. Alloys

Aleaciones Mg Alloys

| M   | P    | Insertos<br>Inserts<br>Rapportes      | Brocas<br>Twist Drills<br>Forets<br>(D mm) | Machos<br>Taps<br>Tarauds<br>(D mm) | Insertadores<br>Fitting Tools<br>Appareils de pose<br>(D mm) | Rompe arrastres<br>Pin-Breakers<br>Rupteurs<br>(D mm) | Nº Art. | €     |
|-----|------|---------------------------------------|--------------------------------------------|-------------------------------------|--------------------------------------------------------------|-------------------------------------------------------|---------|-------|
| M4  | 0,70 | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD | 4,10                                       | 4,91                                | 2,50                                                         | 2,80                                                  | 56484   | 34,65 |
| M5  | 0,80 | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD | 5,20                                       | 6,04                                | 3,20                                                         | 3,60                                                  | 56487   | 34,48 |
| M6  | 1,00 | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD | 6,20                                       | 7,30                                | 4,40                                                         | 4,50                                                  | 56488   | 37,12 |
| M8  | 1,00 | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD | 8,20                                       | 9,30                                | 5,70                                                         | 5,00                                                  | 56497   | 45,19 |
| M8  | 1,25 | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD | 8,30                                       | 9,62                                | 5,70                                                         | 6,20                                                  | 56490   | 45,19 |
| M10 | 1,25 | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD | 10,30                                      | 11,62                               | 7,50                                                         | 7,00                                                  | 56500   | 50,56 |
| M10 | 1,50 | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD | 10,30                                      | 11,95                               | 7,50                                                         | 7,85                                                  | 56493   | 50,56 |
| M12 | 1,00 | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD | 12,30                                      | 13,30                               | 9,00                                                         | 9,00                                                  | 57967   | 57,98 |
| M12 | 1,50 | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD | 12,50                                      | 13,95                               | 9,00                                                         | 9,00                                                  | 57964   | 57,98 |
| M12 | 1,75 | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD | 12,40                                      | 14,27                               | 9,00                                                         | 9,00                                                  | 56496   | 57,98 |
| M14 | 1,25 | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD |                                            | 15,62                               | 10,80                                                        | 10,00                                                 | 57973   | 58,90 |
| M14 | 2,00 | 5 pcs 1xD + 5 pcs 1,5xD + 5 pcs 2,5xD |                                            | 16,60                               | 10,50                                                        | 10,00                                                 | 57970   | 66,65 |



# FRESAS ROTATIVAS

Rotary Burrs

Fraises Limes Rotatives

Ref. **9260**

## FRESA ROTATIVA MD ZYA-S

ZYA-S HM Rotary Burr

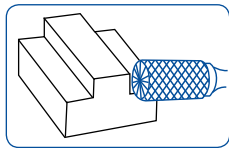
Fraise Lime Rotative Carbure ZYA-S



MD  
HM  
Carbure

K20  
+  
ALTIN

Norma  
ZYA-S  
Norm



**MATERIALES NO FERROSOS**  
Non Ferrous Materials  
Materiaux Non Ferreux



**USO GENERAL**  
General Purpose  
Utilisation Générale



**VIRUTA CORTA**  
Short Chipping  
Copeaux Courts



**MATERIALES DUROS**  
Hard Materials  
Materiaux Durs



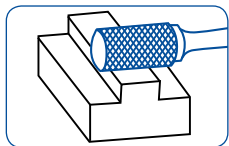
| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Dentado<br>Teeth / Denture<br>1 |        | Dentado<br>Teeth / Denture<br>1 ALTIN |       | Dentado<br>Teeth / Denture<br>3 |       | Dentado<br>Teeth / Denture<br>4 |       | Dentado<br>Teeth / Denture<br>6 |        | Dentado<br>Teeth / Denture<br>6 ALTIN |       |
|---------|---------|---------|---------|---------------------------------|--------|---------------------------------------|-------|---------------------------------|-------|---------------------------------|-------|---------------------------------|--------|---------------------------------------|-------|
|         |         |         |         | Nº Art.                         | €      | Nº Art.                               | €     | Nº Art.                         | €     | Nº Art.                         | €     | Nº Art.                         | €      | Nº Art.                               | €     |
| 3,00    | 3,00    | 38,00   | 14,00   | 55677                           | 10,71  |                                       |       | 44072                           | 9,46  | 44079                           | 10,71 | 44086                           | 10,36  |                                       |       |
| 6,00    | 6,00    | 50,00   | 18,00   | 55680                           | 22,90  |                                       |       | 44074                           | 20,17 | 44081                           | 22,90 | 44141                           | 22,20  |                                       |       |
| 6,30    | 3,00    | 45,00   | 12,70   | 55679                           | 18,62  |                                       |       | 44073                           | 15,95 | 44080                           | 18,62 | 44122                           | 17,55  |                                       |       |
| 8,00    | 6,00    | 64,00   | 19,00   | 55681                           | 28,89  |                                       |       | 44075                           | 24,07 | 44082                           | 28,89 | 44142                           | 26,47  |                                       |       |
| 9,60    | 6,00    | 64,00   | 19,00   | 44070                           | 32,77  | 55864                                 | 39,65 | 44076                           | 27,33 | 44083                           | 32,77 | 44143                           | 30,04  | 43567                                 | 36,37 |
| 12,70   | 6,00    | 70,00   | 25,00   | 44071                           | 44,17  | 55866                                 | 71,81 | 44077                           | 38,36 | 44084                           | 46,06 | 44144                           | 42,23  |                                       |       |
| 12,70   | 8,00    | 70,00   | 25,00   | 55691                           | 44,19  |                                       |       | 55689                           | 36,86 |                                 |       | 55690                           | 40,54  |                                       |       |
| 16,00   | 6,00    | 70,00   | 25,00   | 55682                           | 60,10  |                                       |       | 44078                           | 50,10 | 44085                           | 60,10 | 44145                           | 55,09  |                                       |       |
| 16,00   | 8,00    | 70,00   | 25,00   | 55695                           | 55,73  |                                       |       | 55692                           | 46,48 |                                 |       | 55693                           | 51,12  |                                       |       |
| 19,00   | 6,00    | 70,00   | 25,00   | 55685                           | 82,88  |                                       |       | 55683                           | 69,12 |                                 |       | 55684                           | 76,03  |                                       |       |
| 25,00   | 6,00    | 70,00   | 25,00   | 55688                           | 115,88 |                                       |       | 55686                           | 96,65 |                                 |       | 55687                           | 106,32 |                                       |       |

Ref. **9250**

## FRESA ROTATIVA MD ZYA

ZYA HM Rotary Burr

Fraise Lime Rotative Carbure ZYA



**MATERIALES NO FERROSOS**  
Non Ferrous Materials  
Materiaux Non Ferreux



**USO GENERAL**  
General Purpose  
Utilisation Générale



**VIRUTA CORTA**  
Short Chipping  
Copeaux Courts



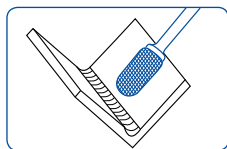
**MATERIALES DUROS**  
Hard Materials  
Materiaux Durs

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Dentado<br>Teeth / Denture<br>1 |        | Dentado<br>Teeth / Denture<br>1 ALTIN |       | Dentado<br>Teeth / Denture<br>3 |       | Dentado<br>Teeth / Denture<br>4 |       | Dentado<br>Teeth / Denture<br>6 |       |
|---------|---------|---------|---------|---------------------------------|--------|---------------------------------------|-------|---------------------------------|-------|---------------------------------|-------|---------------------------------|-------|
|         |         |         |         | Nº Art.                         | €      | Nº Art.                               | €     | Nº Art.                         | €     | Nº Art.                         | €     | Nº Art.                         | €     |
| 3,00    | 3,00    | 38,00   | 14,00   | 55644                           | 9,77   |                                       |       | 44149                           | 8,46  | 44156                           | 9,77  | 44245                           | 9,30  |
| 6,00    | 6,00    | 50,00   | 18,00   | 55648                           | 20,81  |                                       |       | 44151                           | 18,22 | 44158                           | 20,81 | 44417                           | 20,03 |
| 6,30    | 3,00    | 45,00   | 12,70   | 55645                           | 16,91  |                                       |       | 44150                           | 14,30 | 44157                           | 16,91 | 44301                           | 15,74 |
| 8,00    | 6,00    | 64,00   | 19,00   | 55651                           | 26,54  |                                       |       | 44152                           | 22,12 | 44159                           | 26,54 | 44418                           | 24,31 |
| 9,60    | 6,00    | 64,00   | 19,00   | 44147                           | 29,65  | 55861                                 | 45,06 | 44153                           | 24,71 | 44160                           | 29,65 | 44419                           | 27,20 |
| 12,70   | 6,00    | 70,00   | 25,00   | 44148                           | 40,16  | 55863                                 | 65,29 | 44154                           | 35,13 | 44161                           | 42,15 | 44421                           | 38,64 |
| 12,70   | 8,00    | 70,00   | 25,00   | 55671                           | 42,12  |                                       |       | 55669                           | 35,13 |                                 |       | 55670                           | 38,64 |
| 16,00   | 6,00    | 70,00   | 25,00   | 55653                           | 54,65  |                                       |       | 44155                           | 45,53 | 44173                           | 54,65 | 44422                           | 50,10 |
| 16,00   | 8,00    | 70,00   | 25,00   | 55675                           | 50,65  |                                       |       | 55672                           | 42,25 |                                 |       | 55673                           | 46,47 |
| 19,00   | 6,00    | 70,00   | 25,00   | 55664                           | 75,34  |                                       |       | 55655                           | 62,84 |                                 |       | 55657                           | 69,12 |
| 25,00   | 6,00    | 70,00   | 25,00   | 55668                           | 105,36 |                                       |       | 55666                           | 87,87 |                                 |       | 55667                           | 96,66 |

Ref. **9251****FRESA ROTATIVA MD WRC RADIAL**

Radial WRC HM Rotary Burr

Fraise Lime Rotative Carbure WRC Hemispherique

MD  
HM  
CarbureK20  
+  
ALTINNorma  
WRC  
Norm
**MATERIALES NO FERROSOS**  
Non Ferrous Materials  
Materiaux Non Ferretiques

**USO GENERAL**  
General Purpose  
Utilisation Générale

**VIRUTA CORTA**  
Short Chipping  
Copeaux Courts

**MATERIALES DUROS**  
Hard Materials  
Materiaux Durs

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Dentado<br>Teeth / Denture<br>1 |       | Dentado<br>Teeth / Denture<br>1 ALTIN |       | Dentado<br>Teeth / Denture<br>3 |       | Dentado<br>Teeth / Denture<br>4 |       | Dentado<br>Teeth / Denture<br>6 |        |
|---------|---------|---------|---------|---------------------------------|-------|---------------------------------------|-------|---------------------------------|-------|---------------------------------|-------|---------------------------------|--------|
|         |         |         |         | Nº Art.                         | €     | Nº Art.                               | €     | Nº Art.                         | €     | Nº Art.                         | €     | Nº Art.                         | €      |
| 3,00    | 3,00    | 38,00   | 14,00   | 55696                           | 12,50 |                                       |       | 44425                           | 10,41 | 44431                           | 12,50 | 44437                           | 11,45  |
| 6,00    | 6,00    | 50,00   | 18,00   | 55698                           | 23,44 |                                       |       | 44426                           | 19,50 | 44432                           | 23,44 | 44438                           | 21,48  |
| 8,00    | 6,00    | 64,00   | 18,00   | 55699                           | 28,89 |                                       |       | 44427                           | 24,07 | 44433                           | 28,89 | 44439                           | 26,47  |
| 9,60    | 6,00    | 64,00   | 19,00   | 44423                           | 33,56 | 55867                                 | 50,16 | 44428                           | 27,96 | 44434                           | 33,56 | 44440                           | 30,75  |
| 12,70   | 6,00    | 70,00   | 25,00   | 44424                           | 46,82 | 55868                                 | 73,24 | 44429                           | 39,04 | 44435                           | 46,82 | 44441                           | 42,92  |
| 12,70   | 8,00    | 70,00   | 25,00   | 55708                           | 45,07 |                                       |       | 55706                           | 37,59 |                                 |       | 55707                           | 41,35  |
| 16,00   | 6,00    | 70,00   | 25,00   | 12138                           | 60,87 |                                       |       | 44430                           | 50,74 | 44436                           | 60,87 | 44442                           | 55,82  |
| 16,00   | 8,00    | 70,00   | 25,00   | 55711                           | 56,71 |                                       |       | 55709                           | 47,30 |                                 |       | 55710                           | 52,03  |
| 19,00   | 6,00    | 70,00   | 25,00   | 55702                           | 81,42 |                                       |       | 55700                           | 67,90 |                                 |       | 55701                           | 74,69  |
| 25,00   | 6,00    | 70,00   | 25,00   |                                 |       |                                       |       | 55704                           | 92,25 |                                 |       | 55705                           | 101,48 |

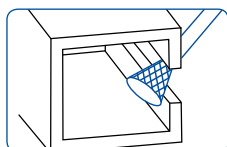
Ref. **9252****FRESA ROTATIVA MD WKN CONO INVERTIDO**

Inverted Cone WKN HM Rotary Burr

Fraise Lime Rotative Carbure WKN Sans Coupe en Bout

MD  
HM  
Carbure

K20

Norma  
WKN  
Norm
**USO GENERAL**  
General Purpose  
Utilisation Générale

**VIRUTA CORTA**  
Short Chipping  
Copeaux Courts

**MATERIALES DUROS**  
Hard Materials  
Materiaux Durs

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Dentado<br>Teeth / Denture<br>3 |       | Dentado<br>Teeth / Denture<br>4 |       | Dentado<br>Teeth / Denture<br>6 |       |
|---------|---------|---------|---------|---------------------------------|-------|---------------------------------|-------|---------------------------------|-------|
|         |         |         |         | Nº Art.                         | €     | Nº Art.                         | €     | Nº Art.                         | €     |
| 3,00    | 3,00    | 38,00   | 4,00    | 44443                           | 10,41 | 44450                           | 12,50 | 44455                           | 11,45 |
| 6,00    | 6,00    | 50,00   | 8,00    | 44447                           | 18,22 | 44452                           | 21,86 | 44458                           | 20,04 |
| 6,30    | 3,00    | 39,00   | 6,00    | 44445                           | 16,28 | 44451                           | 19,52 | 44457                           | 17,91 |
| 12,70   | 6,00    | 57,00   | 12,00   | 44448                           | 28,71 | 44453                           | 34,47 | 44460                           | 31,58 |
| 12,70   | 8,00    | 58,00   | 12,70   | 55825                           | 37,38 |                                 |       | 55826                           | 41,11 |
| 16,00   | 6,00    | 64,00   | 19,00   | 44449                           | 48,00 | 44454                           | 57,55 | 44461                           | 52,80 |
| 16,00   | 8,00    | 64,00   | 19,00   | 55827                           | 48,00 |                                 |       | 55828                           | 52,80 |
| 19,00   | 6,00    | 61,00   | 16,00   | 55823                           | 53,93 |                                 |       | 55824                           | 59,33 |

Ref. **9254**

## FRESA ROTATIVA MD SPG OJIVA

Tree SPG HM Rotary Burr

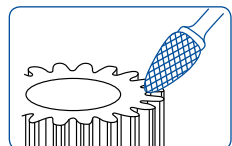
Fraise Lime Rotative Carbure SPG Ogive



MD  
HM  
Carbure

K20  
+  
ALTIN

Norma  
SPG  
Norm



**1**  
**MAT. NO FERROSOS**  
Non Ferrous Mat.  
Mat. Non Ferreux



**3**  
**USO GENERAL**  
General Purpose  
Utilisation Générale



**4**  
**VIRUTA CORTA**  
Short Chipping  
Copeaux Courts



**6**  
**MATERIALES DUROS**  
Hard Materials  
Materiaux Durs



| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Dentado<br>Teeth / Denture<br>1 |       | Dentado<br>Teeth / Denture<br>3 |       | Dentado<br>Teeth / Denture<br>4 |       | Dentado<br>Teeth / Denture<br>6 |       | Dentado<br>Teeth / Denture<br>6 ALTIN |       |
|---------|---------|---------|---------|---------------------------------|-------|---------------------------------|-------|---------------------------------|-------|---------------------------------|-------|---------------------------------------|-------|
|         |         |         |         | Nº Art.                         | €     | Nº Art.                         | €     | Nº Art.                         | €     | Nº Art.                         | €     | Nº Art.                               | €     |
| 3,00    | 3,00    | 38,00   | 14,00   | 55783                           | 12,50 | 44466                           | 10,41 | 44472                           | 12,50 | 44487                           | 11,45 |                                       |       |
| 6,00    | 6,00    | 50,00   | 18,00   | 55784                           | 23,44 | 44467                           | 19,50 | 44473                           | 23,44 | 44488                           | 21,48 |                                       |       |
| 8,00    | 6,00    | 64,00   | 19,00   | 55785                           | 26,54 | 44468                           | 22,12 | 44474                           | 26,54 | 44494                           | 24,28 |                                       |       |
| 9,60    | 6,00    | 64,00   | 19,00   | 44463                           | 31,22 | 44469                           | 26,03 | 44475                           | 31,22 | 44500                           | 28,62 | 55882                                 | 38,44 |
| 12,70   | 6,00    | 70,00   | 25,00   | 44464                           | 39,04 | 44470                           | 32,52 | 44476                           | 39,04 | 44512                           | 35,78 | 27566                                 | 48,53 |
| 16,00   | 6,00    | 75,00   | 30,00   | 44465                           | 54,65 | 44471                           | 45,53 | 44482                           | 54,65 | 44518                           | 50,10 |                                       |       |
| 12,70   | 8,00    | 70,00   | 25,00   | 55787                           | 40,69 | 17105                           | 33,94 |                                 |       | 55786                           | 37,33 |                                       |       |
| 16,00   | 8,00    | 70,00   | 25,00   | 55790                           | 56,60 | 55788                           | 47,21 |                                 |       | 55789                           | 51,93 |                                       |       |

Ref. **9255**

## FRESA ROTATIVA MD SKM CÓNICA

Cone SKM HM Rotary Burr

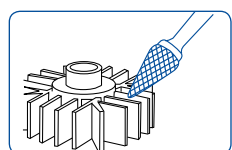
Fraise Lime Rotative Carbure SKM Conique



MD  
HM  
Carbure

K20

Norma  
SKM  
Norm



**1**  
**MAT. NO FERROSOS**  
Non Ferrous Mat.  
Mat. Non Ferreux



**3**  
**USO GENERAL**  
General Purpose  
Utilisation Générale



**4**  
**VIRUTA CORTA**  
Short Chipping  
Copeaux Courts



**6**  
**MATERIALES DUROS**  
Hard Materials  
Materiaux Durs

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Dentado<br>Teeth / Denture<br>1 |       | Dentado<br>Teeth / Denture<br>3 |       | Dentado<br>Teeth / Denture<br>4 |       | Dentado<br>Teeth / Denture<br>6 |       |
|---------|---------|---------|---------|---------------------------------|-------|---------------------------------|-------|---------------------------------|-------|---------------------------------|-------|
|         |         |         |         | Nº Art.                         | €     | Nº Art.                         | €     | Nº Art.                         | €     | Nº Art.                         | €     |
| 6,00    | 6,00    | 50,00   | 20,00   | 55817                           | 21,62 | 44530                           | 18,01 | 44598                           | 21,62 | 44616                           | 19,81 |
| 6,30    | 3,00    | 49,00   | 12,70   | 55816                           | 18,01 | 44524                           | 15,03 | 44595                           | 18,01 | 44613                           | 16,51 |
| 8,00    | 6,00    | 64,00   | 18,00   |                                 |       | 44583                           | 19,22 | 44601                           | 23,07 | 44617                           | 21,15 |
| 9,60    | 6,00    | 64,00   | 16,00   | 55818                           | 25,94 | 44586                           | 21,62 | 44604                           | 25,94 | 44619                           | 23,79 |
| 12,70   | 6,00    | 71,00   | 22,00   | 25335                           | 34,60 | 44589                           | 28,81 | 44607                           | 34,60 | 44620                           | 31,70 |
| 12,70   | 8,00    | 71,00   | 22,00   |                                 |       | 55819                           | 37,53 |                                 |       | 55820                           | 41,28 |
| 16,00   | 6,00    | 71,00   | 25,00   |                                 |       | 44592                           | 39,04 | 44610                           | 46,83 | 44622                           | 42,92 |
| 16,00   | 8,00    | 71,00   | 25,00   |                                 |       | 55821                           | 50,10 |                                 |       | 55822                           | 55,11 |

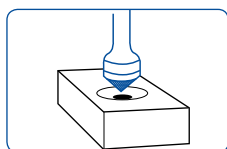
Ref. **9256****FRESA ROTATIVA MD KSK CÓNICA 90°**

90° Cone KSK HM Rotary Burr

Fraise Lime Rotative Carbure KSK Conique 90°

MD  
HM  
Carbure

K20

Norma  
KSK  
Norm**3**  
**USO GENERAL**  
General Purpose  
Utilisation Générale**4**  
**VIRUTA CORTA**  
Short Chipping  
Copeaux Courts**6**  
**MATERIALES DUROS**  
Hard Materials  
Materiaux Durs

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Dentado<br>Teeth / Denture<br><b>3</b> |       | Dentado<br>Teeth / Denture<br><b>4</b> |       | Dentado<br>Teeth / Denture<br><b>6</b> |       |
|---------|---------|---------|---------|----------------------------------------|-------|----------------------------------------|-------|----------------------------------------|-------|
|         |         |         |         | Nº Art.                                | €     | Nº Art.                                | €     | Nº Art.                                | €     |
| 4,00    | 6,00    | 50,00   | 3,00    | 44625                                  | 15,62 | 44628                                  | 18,73 | 44631                                  | 17,18 |
| 12,70   | 6,00    | 55,00   | 6,30    | 44626                                  | 26,03 | 44629                                  | 31,20 | 44632                                  | 28,62 |
| 12,70   | 8,00    | 55,00   | 6,30    | 55802                                  | 25,98 |                                        |       | 55803                                  | 28,58 |
| 16,00   | 6,00    | 57,00   | 8,00    | 55796                                  | 34,61 |                                        |       | 55797                                  | 38,07 |
| 16,00   | 8,00    | 57,00   | 8,00    | 55804                                  | 34,61 |                                        |       | 55805                                  | 38,07 |
| 19,00   | 6,00    | 59,00   | 9,50    | 55798                                  | 45,44 |                                        |       | 55799                                  | 49,99 |
| 25,00   | 6,00    | 61,00   | 12,70   | 55800                                  | 72,91 |                                        |       | 55801                                  | 80,20 |

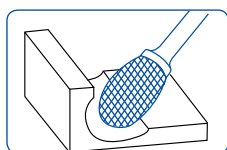
Ref. **9257****FRESA ROTATIVA MD TRE GOTA**

Oval TRE HM Rotary Burr

Fraise Lime Rotative Carbure TRE Ovale

MD  
HM  
Carbure

K20

Norma  
TRE  
Norm**1**  
**MAT. NO FERROSOS**  
Non Ferrous Mat.  
Mat. Non Ferreux**3**  
**USO GENERAL**  
General Purpose  
Utilisation Générale**4**  
**VIRUTA CORTA**  
Short Chipping  
Copeaux Courts**6**  
**MATERIALES DUROS**  
Hard Materials  
Materiaux Durs

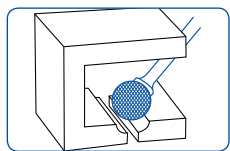
| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Dentado<br>Teeth / Denture<br><b>1</b> |       | Dentado<br>Teeth / Denture<br><b>3</b> |       | Dentado<br>Teeth / Denture<br><b>4</b> |       | Dentado<br>Teeth / Denture<br><b>6</b> |       |
|---------|---------|---------|---------|----------------------------------------|-------|----------------------------------------|-------|----------------------------------------|-------|----------------------------------------|-------|
|         |         |         |         | Nº Art.                                | €     | Nº Art.                                | €     | Nº Art.                                | €     | Nº Art.                                | €     |
| 3,00    | 3,00    | 38,00   | 6,00    | 55733                                  | 12,50 | 44637                                  | 10,41 | 44648                                  | 12,50 | 44655                                  | 11,45 |
| 6,00    | 6,00    | 50,00   | 10,00   | 55735                                  | 23,44 | 44640                                  | 19,50 | 44650                                  | 23,44 | 44657                                  | 21,48 |
| 6,30    | 3,00    | 42,00   | 9,50    | 55734                                  | 19,50 | 44638                                  | 16,28 | 44649                                  | 19,50 | 44656                                  | 17,88 |
| 8,00    | 6,00    | 60,00   | 15,00   | 55737                                  | 26,54 | 44643                                  | 22,12 | 44651                                  | 26,54 | 44658                                  | 24,31 |
| 9,60    | 6,00    | 61,00   | 16,00   | 44634                                  | 31,22 | 44644                                  | 26,03 | 44652                                  | 31,22 | 44659                                  | 28,62 |
| 12,70   | 6,00    | 67,00   | 22,00   | 44635                                  | 39,04 | 44646                                  | 32,52 | 44653                                  | 39,04 | 44660                                  | 35,78 |
| 12,70   | 8,00    | 67,00   | 22,00   | 55746                                  | 41,99 | 55743                                  | 35,02 |                                        |       | 55744                                  | 38,52 |
| 16,00   | 6,00    | 70,00   | 25,00   | 55738                                  | 54,65 | 44647                                  | 45,53 | 44654                                  | 54,65 | 44661                                  | 50,10 |
| 16,00   | 8,00    | 70,00   | 25,00   | 55749                                  | 58,33 | 55747                                  | 48,65 |                                        |       | 55748                                  | 53,52 |
| 19,00   | 6,00    | 70,00   | 25,00   | 55741                                  | 78,35 | 55739                                  | 65,35 |                                        |       | 55740                                  | 71,88 |



Ref. **9258****FRESA ROTATIVA MD KVD ESFÉRICA**

Ball KVD HM Rotary Burr

Fraise Lime Rotative Carbure KVD Spherique

MD  
HM  
CarbureK20  
+  
ALTINNorma  
KUD  
Norm
**MATERIALES NO FERROSOS**  
Non Ferrous Materials  
Materiaux Non Ferretiques

**USO GENERAL**  
General Purpose  
Utilisation Générale

**VIRUTA CORTA**  
Short Chipping  
Copeaux Courts

**MATERIALES DUROS**  
Hard Materials  
Materiaux Durs

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Dentado<br>Teeth / Denture<br>1 |       | Dentado<br>Teeth / Denture<br>1 ALTIN |       | Dentado<br>Teeth / Denture<br>3 |       | Dentado<br>Teeth / Denture<br>4 |       | Dentado<br>Teeth / Denture<br>6 |       |
|---------|---------|---------|---------|---------------------------------|-------|---------------------------------------|-------|---------------------------------|-------|---------------------------------|-------|---------------------------------|-------|
|         |         |         |         | Nº Art.                         | €     | Nº Art.                               | €     | Nº Art.                         | €     | Nº Art.                         | €     | Nº Art.                         | €     |
| 3,00    | 3,00    | 38,00   | 2,50    | 55713                           | 11,54 |                                       |       | 44705                           | 9,61  | 44712                           | 11,54 | 44719                           | 10,55 |
| 6,00    | 6,00    | 50,00   | 4,70    | 55716                           | 21,62 |                                       |       | 44707                           | 18,01 | 44714                           | 21,62 | 44721                           | 19,81 |
| 6,30    | 3,00    | 38,00   | 5,00    | 55714                           | 18,01 |                                       |       | 44706                           | 15,03 | 44713                           | 18,01 | 44720                           | 16,51 |
| 8,00    | 6,00    | 52,00   | 6,00    | 55717                           | 24,51 |                                       |       | 44708                           | 20,43 | 44715                           | 24,51 | 44722                           | 22,42 |
| 9,60    | 6,00    | 54,00   | 8,00    | 44662                           | 27,38 | 55869                                 | 41,16 | 44709                           | 22,81 | 44716                           | 27,38 | 44723                           | 25,07 |
| 12,70   | 6,00    | 56,00   | 11,00   | 44671                           | 34,60 | 55870                                 | 51,59 | 44710                           | 28,81 | 44717                           | 34,60 | 44724                           | 31,70 |
| 12,70   | 8,00    | 56,00   | 11,00   | 55728                           | 31,75 |                                       |       | 55725                           | 26,48 |                                 |       | 55726                           | 29,13 |
| 16,00   | 6,00    | 59,00   | 14,00   | 58481                           | 48,76 |                                       |       | 44711                           | 40,82 | 44718                           | 48,99 | 44725                           | 44,73 |
| 16,00   | 8,00    | 59,00   | 14,00   | 55732                           | 39,34 |                                       |       | 55729                           | 32,81 |                                 |       | 55731                           | 36,09 |
| 19,00   | 6,00    | 62,00   | 16,50   | 55720                           | 54,30 |                                       |       | 55718                           | 45,29 |                                 |       | 55719                           | 49,82 |
| 25,00   | 6,00    | 67,00   | 22,00   | 55724                           | 93,30 |                                       |       | 55722                           | 77,81 |                                 |       | 55723                           | 85,59 |

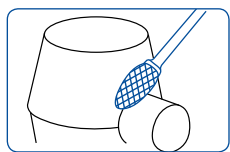
Ref. **9266****FRESA ROTATIVA MD B LLAMA**

Flame B HM Rotary Burr

Fraise Lime Rotative Carbure B Flamme

MD  
HM  
Carbure

K20

Norma  
B  
Norm
**MAT. NO FERROSOS**  
Non Ferrous Mat.  
Mat. Non Ferretiques

**USO GENERAL**  
General Purpose  
Utilisation Générale

**VIRUTA CORTA**  
Short Chipping  
Copeaux Courts

**MATERIALES DUROS**  
Hard Materials  
Materiaux Durs

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Dentado<br>Teeth / Denture<br>1 |       | Dentado<br>Teeth / Denture<br>3 |       | Dentado<br>Teeth / Denture<br>4 |       | Dentado<br>Teeth / Denture<br>6 |       |
|---------|---------|---------|---------|---------------------------------|-------|---------------------------------|-------|---------------------------------|-------|---------------------------------|-------|
|         |         |         |         | Nº Art.                         | €     | Nº Art.                         | €     | Nº Art.                         | €     | Nº Art.                         | €     |
| 3,00    | 3,00    | 38,00   | 6,00    |                                 |       | 44728                           | 8,90  | 44735                           | 10,67 | 44757                           | 9,79  |
| 6,00    | 3,00    | 43,00   | 10,00   |                                 |       | 44729                           | 14,61 | 44736                           | 17,51 | 44760                           | 16,07 |
| 6,00    | 6,00    | 50,00   | 14,00   |                                 |       | 44730                           | 18,55 | 44737                           | 24,96 | 44763                           | 22,90 |
| 8,00    | 6,00    | 64,00   | 19,00   | 55791                           | 28,11 | 44731                           | 23,44 | 44738                           | 28,11 | 44766                           | 25,75 |
| 9,60    | 6,00    | 65,00   | 19,00   | 44726                           | 33,56 | 44732                           | 27,96 | 44739                           | 33,56 | 44769                           | 30,75 |
| 12,70   | 6,00    | 77,00   | 32,00   | 44727                           | 40,59 | 44733                           | 33,84 | 44740                           | 40,59 | 44771                           | 37,20 |
| 12,70   | 8,00    | 77,00   | 32,00   |                                 |       | 55792                           | 50,10 |                                 |       | 55793                           | 55,11 |
| 16,00   | 6,00    | 81,00   | 36,00   | 44773                           | 57,75 | 44734                           | 48,13 | 44742                           | 57,75 | 44772                           | 52,94 |
| 16,00   | 8,00    | 81,00   | 36,00   |                                 |       | 55794                           | 69,18 |                                 |       | 55795                           | 76,10 |

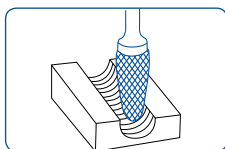
Ref. **9267****FRESA ROTATIVA MD KEL CÓNICA REDONDEADA**

Ball Nosed Cone KEL HM Rotary Burr

Fraise Lime Rotative Carbure KEL Conique Rayón

MD  
HM  
Carbure

K20

Norma  
KEL  
Norm
**MAT. NO FERROSOS**  
Non Ferrous Mat.  
Mat. Non Ferreux

**USO GENERAL**  
General Purpose  
Utilisation Générale

**VIRUTA CORTA**  
Short Chipping  
Copeaux Courts

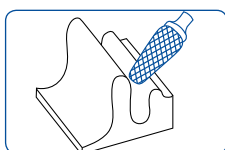
**MATERIALES Duros**  
Hard Materials  
Materiaux Durs

|         |         |         |         | Dentado<br>Teeth / Denture<br>1 |       | Dentado<br>Teeth / Denture<br>3 |       | Dentado<br>Teeth / Denture<br>4 |       | Dentado<br>Teeth / Denture<br>6 |       |
|---------|---------|---------|---------|---------------------------------|-------|---------------------------------|-------|---------------------------------|-------|---------------------------------|-------|
| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Nº Art.                         | €     | Nº Art.                         | €     | Nº Art.                         | €     | Nº Art.                         | €     |
| 3,00    | 3,00    | 38,00   | 14,00   | 55806                           | 12,50 | 44776                           | 10,41 | 44783                           | 12,50 | 44790                           | 11,45 |
| 6,00    | 6,00    | 50,00   | 18,00   | 55808                           | 25,75 | 44778                           | 21,48 | 44785                           | 25,75 | 44792                           | 23,60 |
| 6,30    | 3,00    | 48,00   | 15,80   | 55807                           | 19,50 | 44777                           | 16,28 | 44784                           | 19,50 | 44791                           | 17,91 |
| 8,00    | 6,00    | 70,00   | 25,40   | 55809                           | 31,30 | 44779                           | 26,03 | 44786                           | 31,30 | 44793                           | 28,62 |
| 10,00   | 6,00    | 65,00   | 20,00   | 21959                           | 37,49 | 44780                           | 31,22 | 44787                           | 37,49 | 44794                           | 34,31 |
| 12,70   | 6,00    | 77,00   | 32,00   | 44774                           | 46,82 | 44781                           | 39,04 | 44788                           | 46,82 | 44795                           | 42,92 |
| 12,70   | 8,00    | 77,00   | 32,00   | 55812                           | 43,81 | 55810                           | 36,54 |                                 |       | 55811                           | 40,19 |
| 16,00   | 6,00    | 78,00   | 33,00   | 44775                           | 70,26 | 44782                           | 58,53 | 44789                           | 70,26 | 44796                           | 64,41 |
| 16,00   | 8,00    | 78,00   | 33,00   | 55815                           | 86,22 | 55813                           | 71,91 |                                 |       | 55814                           | 79,10 |

Ref. **9268****FRESA ROTATIVA MD RBF OJIVA REDONDEADA**

Ball Nosed Tree RBF HM Rotary Burr

Fraise Lime Rotative Carbure RBF Ogive Rayón

MD  
HM  
CarbureK20  
+  
ALTINNorma  
RBF  
Norm
**MATERIALES NO FERROSOS**  
Non Ferrous Materials  
Materiaux Non Ferreux

**USO GENERAL**  
General Purpose  
Utilisation Générale

**VIRUTA CORTA**  
Short Chipping  
Copeaux Courts

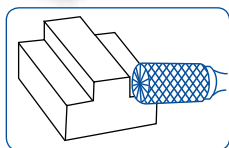
**MATERIALES Duros**  
Hard Materials  
Materiaux Durs


|         |         |         |         | Dentado<br>Teeth / Denture<br>1 |        | Dentado<br>Teeth / Denture<br>1 ALTIN |       | Dentado<br>Teeth / Denture<br>3 |       | Dentado<br>Teeth / Denture<br>4 |       | Dentado<br>Teeth / Denture<br>6 |        | Dentado<br>Teeth / Denture<br>6 ALTIN |       |
|---------|---------|---------|---------|---------------------------------|--------|---------------------------------------|-------|---------------------------------|-------|---------------------------------|-------|---------------------------------|--------|---------------------------------------|-------|
| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Nº Art.                         | €      | Nº Art.                               | €     | Nº Art.                         | €     | Nº Art.                         | €     | Nº Art.                         | €      | Nº Art.                               | €     |
| 3,00    | 3,00    | 38,00   | 14,00   | 55753                           | 10,67  |                                       |       | 55750                           | 8,90  |                                 |       | 17118                           | 9,79   |                                       |       |
| 6,00    | 6,00    | 50,00   | 18,00   | 55759                           | 25,75  |                                       |       | 44797                           | 21,48 | 44802                           | 25,75 | 44808                           | 23,60  |                                       |       |
| 6,30    | 3,00    | 45,00   | 12,70   | 55758                           | 17,52  |                                       |       | 55755                           | 14,61 |                                 |       | 55756                           | 16,07  |                                       |       |
| 8,00    | 6,00    | 65,00   | 20,00   | 55760                           | 31,22  |                                       |       | 44798                           | 26,03 | 44803                           | 31,22 | 44809                           | 28,62  |                                       |       |
| 9,60    | 6,00    | 64,00   | 19,00   | 55761                           | 37,49  | 55880                                 | 39,26 | 44799                           | 31,22 | 44804                           | 37,49 | 44811                           | 34,31  | 17250                                 | 36,02 |
| 12,70   | 6,00    | 70,00   | 25,00   | 55762                           | 46,82  | 55881                                 | 53,94 | 44800                           | 39,04 | 44805                           | 46,82 | 44814                           | 42,92  | 23849                                 | 49,49 |
| 12,70   | 8,00    | 70,00   | 25,00   | 55777                           | 41,49  |                                       |       | 55774                           | 34,61 |                                 |       | 55776                           | 38,07  |                                       |       |
| 16,00   | 6,00    | 70,00   | 25,00   | 55765                           | 70,26  |                                       |       | 44801                           | 58,53 | 44806                           | 70,26 | 44817                           | 64,41  |                                       |       |
| 16,00   | 8,00    | 70,00   | 25,00   | 55782                           | 57,29  |                                       |       | 55779                           | 47,79 |                                 |       | 55780                           | 52,56  |                                       |       |
| 19,00   | 6,00    | 83,00   | 38,00   | 55771                           | 111,38 |                                       |       | 55768                           | 92,89 |                                 |       | 55769                           | 102,18 |                                       |       |

Ref. **9240****FRESA ROTATIVA MD ZYA-S LARGA**

Long ZYA-S HM Rotary Burr

Fraise Lime Rotative Carbure ZYA-S Longue

no  
ve  
dad  
newMD  
HM  
Carbure

K20

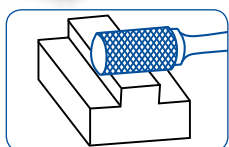
Norma  
ZYA-S  
NormUSO GENERAL  
General Purpose  
Utilisation GénéraleMATERIALES DUROS  
Hard Materials  
Materiaux Durs

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Dentado<br>Teeth / Denture<br>3 |       | Dentado<br>Teeth / Denture<br>6 |       |
|---------|---------|---------|---------|---------------------------------|-------|---------------------------------|-------|
|         |         |         |         | Nº Art.                         | €     | Nº Art.                         | €     |
| 6,00    | 6,00    | 150,00  | 18,00   | 55832                           | 68,76 | 55833                           | 75,64 |
| 9,60    | 6,00    | 172,00  | 19,00   | 55834                           | 46,10 | 55835                           | 50,71 |
| 12,70   | 6,00    | 178,00  | 25,00   | 55836                           | 65,24 | 55837                           | 71,77 |

Ref. **9230****FRESA ROTATIVA MD ZYA LARGA**

Long ZYA HM Rotary Burr

Fraise Lime Rotative Carbure ZYA Longue

no  
ve  
dad  
newMD  
HM  
Carbure

K20

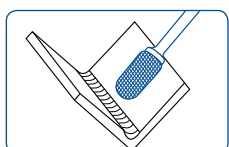
Norma  
ZYA  
NormMATERIALES DUROS  
Hard Materials  
Materiaux Durs

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Dentado<br>Teeth / Denture<br>6 |       |
|---------|---------|---------|---------|---------------------------------|-------|
|         |         |         |         | Nº Art.                         | €     |
| 6,00    | 6,00    | 150,00  | 18,00   | 55829                           | 68,76 |
| 9,60    | 6,00    | 172,00  | 19,00   | 55830                           | 46,10 |
| 12,70   | 6,00    | 178,00  | 25,00   | 55831                           | 65,24 |

Ref. **9231****FRESA ROTATIVA MD WRC RADIAL LARGA**

Long Radial WRC HM Rotary Burr

Fraise Lime Rotative Carbure WRC Hemispherique Longue

no  
ve  
dad  
newMD  
HM  
Carbure

K20

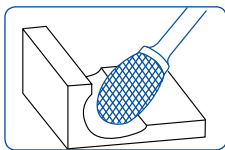
Norma  
WRC  
NormMATERIALES DUROS  
Hard Materials  
Materiaux Durs

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Dentado<br>Teeth / Denture<br>6 |       |
|---------|---------|---------|---------|---------------------------------|-------|
|         |         |         |         | Nº Art.                         | €     |
| 6,00    | 6,00    | 150,00  | 18,00   | 55838                           | 70,31 |
| 9,60    | 6,00    | 172,00  | 19,00   | 55839                           | 43,27 |
| 12,70   | 6,00    | 178,00  | 25,00   | 55840                           | 61,38 |

Ref. **9237****FRESA ROTATIVA MD TRE GOTA LARGA**

Long Oval TRE HM Rotary Burr

Fraise Lime Rotative Carbure TRE Ovale Longue

no  
ve  
dad  
newMD  
HM  
Carbure

K20

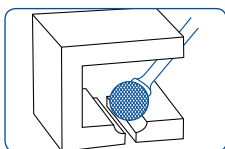
Norma  
TRE  
NormUSO GENERAL  
General Purpose  
Utilisation GénéraleMATERIALES DUROS  
Hard Materials  
Materiaux Durs

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Dentado<br>Teeth / Denture<br>3 |       | Dentado<br>Teeth / Denture<br>6 |       |
|---------|---------|---------|---------|---------------------------------|-------|---------------------------------|-------|
|         |         |         |         | Nº Art.                         | €     | Nº Art.                         | €     |
| 9,60    | 6,00    | 168,00  | 16,00   | 55849                           | 39,57 | 55851                           | 43,52 |
| 12,70   | 6,00    | 175,00  | 22,00   | 55852                           | 49,09 | 55854                           | 54,00 |

Ref. **9238****FRESA ROTATIVA MD KVD ESFÉRICA LARGA**

Long Ball KVD HM Rotary Burr

Fraise Lime Rotative Carbure KVD Spherique Longue

no  
ve  
dad  
newMD  
HM  
Carbure

K20

Norma  
KVD  
NormUSO GENERAL  
General Purpose  
Utilisation GénéraleMATERIALES DUROS  
Hard Materials  
Materiaux Durs

| D<br>mm | d<br>mm | L<br>mm | I<br>mm | Dentado<br>Teeth / Denture<br>3 |       | Dentado<br>Teeth / Denture<br>6 |       |
|---------|---------|---------|---------|---------------------------------|-------|---------------------------------|-------|
|         |         |         |         | Nº Art.                         | €     | Nº Art.                         | €     |
| 8,00    | 6,00    | 182,00  | 6,00    | 55841                           | 33,32 | 55842                           | 36,66 |
| 9,60    | 6,00    | 184,00  | 8,00    | 55843                           | 33,87 | 55845                           | 37,26 |
| 12,70   | 6,00    | 164,00  | 11,00   | 55846                           | 41,52 | 55848                           | 45,67 |

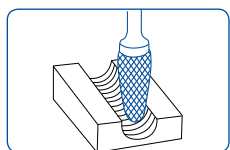
Ref. **9247**

## FRESA ROTATIVA MD KEL CÓNICA RED. LARGA

Long Ball Nosed Cone KEL HM Rotary Burr

Fraise Lime Rotative Carbure KEL Conique Rayón Longue

no  
ve  
dad  
new



MD  
HM  
Carbure

K20

Norma  
KEL  
Norm



**MATERIALES DUROS**  
Hard Materials  
Materiaux Durs

| Dentado |      |        |       | Teeth / Denture |       |
|---------|------|--------|-------|-----------------|-------|
| D       | d    | L      | I     | 6               |       |
| mm      | mm   | mm     | mm    | Nº Art.         | €     |
| 9,60    | 6,00 | 183,00 | 30,00 | 55858           | 52,97 |
| 12,70   | 6,00 | 185,00 | 30,20 | 55860           | 59,58 |

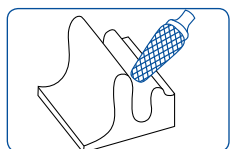
Ref. **9248**

## FRESA ROTATIVA MD RBF OJIVA REDOND. LARGA

Long Ball Nosed Tree RBF HM Rotary Burr

Fraise Lime Rotative Carbure RBF Ogive Rayón Longue

no  
ve  
dad  
new



MD  
HM  
Carbure

K20

Norma  
RBF  
Norm



**MATERIALES DUROS**  
Hard Materials  
Materiaux Durs

| Dentado |      |        |       | Teeth / Denture |       |
|---------|------|--------|-------|-----------------|-------|
| D       | d    | L      | I     | 6               |       |
| mm      | mm   | mm     | mm    | Nº Art.         | €     |
| 9,60    | 6,00 | 172,00 | 19,00 | 55855           | 41,46 |
| 12,70   | 6,00 | 178,00 | 25,00 | 55857           | 54,17 |



Ref. **9200**

## JUEGOS FRESAS ROTATIVAS MD

HM Rotary Burr Sets

Jeux Fraises Limes Rotatives Carbure



### Mod. 1

| Cont. Ref. | D mm | d mm |
|------------|------|------|
|------------|------|------|

|      |
|------|
| 9260 |
| 9251 |
| 9255 |
| 9258 |
| 9266 |

**12,70 6,00**



**MATERIALES DUROS**  
Hard Materials  
Materiaux Durs

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

Nº Art. €

45810 **185,75**



### Mod. 2

| Cont. Ref. | D mm | d mm |
|------------|------|------|
|------------|------|------|

|      |
|------|
| 9260 |
| 9250 |
| 9251 |
| 9254 |
| 9255 |
| 9257 |
| 9258 |
| 9266 |
| 9267 |
| 9268 |

**6,00 6,00**



**MATERIALES DUROS**  
Hard Materials  
Materiaux Durs

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

Nº Art. €

45811 **206,08**



### Mod. 3

| Cont. Ref. | D mm | d mm |
|------------|------|------|
|------------|------|------|

|      |
|------|
| 9260 |
| 9250 |
| 9251 |
| 9254 |
| 9257 |
| 9258 |
| 9267 |
| 9268 |

**3,00 3,00**



**MATERIALES DUROS**  
Hard Materials  
Materiaux Durs

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

Nº Art. €

45813 **87,45**

Ref. **4412****FRESA FRONTAL 1Z ALUMINIO HSS**HSS Aluminium 1Z End Mill  
Fraise 1Z Aluminium HSS

HSS

W

Serie Corta  
Short Length  
Série CourteTol.\*  
D (k10)  
d (h6)\* $\varnothing D = \varnothing d$   
=> Tol.  
D (js14)

Aluminio / Aluminium

Termo-Plásticos



| D<br>mm | d<br>mm | L<br>mm | l<br>mm | Z | Nº Art.<br>HSS | €            |
|---------|---------|---------|---------|---|----------------|--------------|
| 3       | 8       | 60      | 12      | 1 | 44087          | <b>10,97</b> |
| 4       | 8       | 60      | 12      | 1 | 44090          | <b>10,97</b> |
| 5       | 8       | 60      | 12      | 1 | 44093          | <b>10,97</b> |
| 6       | 8       | 60      | 14      | 1 | 44096          | <b>10,97</b> |

| D<br>mm | d<br>mm | L<br>mm | l<br>mm | Z | Nº Art.<br>HSS | €            |
|---------|---------|---------|---------|---|----------------|--------------|
| 7       | 8       | 60      | 14      | 1 | 44099          | <b>13,41</b> |
| 8       | 8       | 80      | 15      | 1 | 44102          | <b>13,41</b> |
| 10      | 10      | 80      | 15      | 1 | 44105          | <b>13,79</b> |

Ref. **4414****FRESA FRONTAL 1Z ALUMINIO HSS LARGA**Long HSS Aluminium 1Z End Mill  
Fraise 1Z Aluminium HSS Longue

HSS

W

Serie Larga  
Long Series  
Série LongueTol.\*  
D (k10)  
d (h6)\* $\varnothing D = \varnothing d$   
=> Tol.  
D (js14)

Aluminio / Aluminium

Termo-Plásticos



| D<br>mm | d<br>mm | L<br>mm | l<br>mm | l<br>mm | Z | Nº Art.<br>HSS | €            |
|---------|---------|---------|---------|---------|---|----------------|--------------|
| 4       | 8       | 80      | 16      | 29      | 1 | 44120          | <b>15,50</b> |
| 5       | 8       | 80      | 16      | 29      | 1 | 44123          | <b>15,50</b> |
| 6       | 8       | 90      | 16      | 29      | 1 | 44126          | <b>15,50</b> |

| D<br>mm | d<br>mm | L<br>mm | l<br>mm | l<br>mm | Z | Nº Art.<br>HSS | €            |
|---------|---------|---------|---------|---------|---|----------------|--------------|
| 8       | 8       | 100     | 28      | 40      | 1 | 44129          | <b>17,20</b> |
| 10      | 10      | 120     | 40      | 40      | 1 | 29178          | <b>17,72</b> |

Ref. **9411****FRESA FRONTAL 1Z ALUMINIO METAL DURO**HM Aluminium 1Z End Mill  
Fraise 1Z Aluminium CarbureMD  
HM  
Carb.K10F  
(ALTIN)

W

Tol.  
D (h10)  
d (h6)**ALTIN**Mayor resistencia al desgaste  
Higher Wear Resistance  
Plus haute à l'usure

Aluminio / Aluminium

Plástico / Plastics / Plastiques



| D<br>mm | d<br>mm | L<br>mm | l<br>mm | Z | Nº Art.<br>MD/HM | €            | Nº Art.<br>ALTIN | €            |
|---------|---------|---------|---------|---|------------------|--------------|------------------|--------------|
| 3       | 3       | 38      | 12      | 1 | 13075            | <b>12,19</b> | 13114            | <b>18,68</b> |
| 4       | 4       | 40      | 12      | 1 | 13078            | <b>14,84</b> | 13123            | <b>21,22</b> |
| 5       | 5       | 50      | 12      | 1 | 13084            | <b>18,34</b> | 13126            | <b>24,55</b> |

| D<br>mm | d<br>mm | L<br>mm | l<br>mm | Z | Nº Art.<br>MD/HM | €            | Nº Art.<br>ALTIN | €            |
|---------|---------|---------|---------|---|------------------|--------------|------------------|--------------|
| 6       | 6       | 50      | 14      | 1 | 13096            | <b>21,79</b> | 13135            | <b>27,85</b> |
| 8       | 8       | 63      | 15      | 1 | 13105            | <b>33,09</b> | 13138            | <b>39,69</b> |
| 10      | 10      | 72      | 15      | 1 | 13111            | <b>54,41</b> | 13144            | <b>61,27</b> |



# 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)

Angulo 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)

Angulo 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 tooth 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 contourage, la largeur du ruban est limitée par le plus petit rayon à scier.

### 3. Epaisseur de Lame (E)

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

### 4. Dentures (TPI)

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

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
- profilés 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 = 14C |
| 16 mm; r = 9C  |
| 13 mm; r = 6C  |
| 10 mm; r = 4C  |
| 8 mm; r = 3C   |
| 6 mm; r = 1C   |
| 4 mm; r = 8    |
| 3 mm; r = 3    |

### Dentado constante

Constant tooth pitch

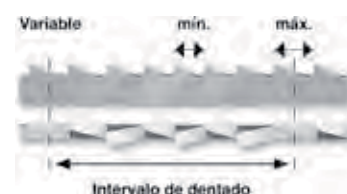
Denture constante



### Dentado variable

Variable tooth pitch

Denture variable

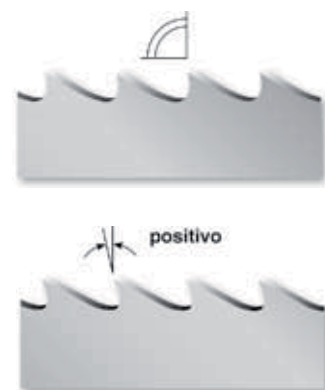


### Tabla selección dentado

Tooth selection table

Tableau sélection denture

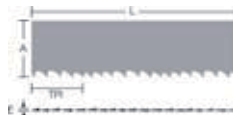
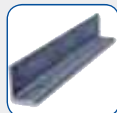
| Dentado<br>Tooth<br>Denture | Perfil<br>Profile<br>Profil | Macizo<br>Solid<br>Plein |
|-----------------------------|-----------------------------|--------------------------|
| 10 / 14                     | 0-1 mm                      | 0-10 mm                  |
| 8 / 12                      | 1-2,5 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                  |



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% CoAceros <850 N/mm<sup>2</sup> Steel

Aluminio / Aluminium

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

Plástico / Plastics / Plastiques

Cobre / Copper / Cuivre



| L<br>mm | A<br>mm | E<br>mm |   | €     |
|---------|---------|---------|---|-------|
| 1140    | 13      | 0,65    | 3 | 17,69 |
| 1300    |         |         |   | 19,08 |
| 1325    |         |         |   | 19,28 |
| 1328    |         |         |   | 19,29 |
| 1330    |         |         |   | 19,30 |
| 1335    |         |         |   | 19,32 |
| 1340    |         |         |   | 19,39 |
| 1425    |         |         |   | 20,30 |
| 1440    |         |         |   | 20,52 |
| 1450    |         |         |   | 20,65 |
| 1470    |         |         |   | 21,66 |
| 1530    |         |         |   | 21,78 |
| 1550    |         |         |   | 22,06 |
| 1600    |         |         |   | 22,30 |
| 1630    |         |         |   | 22,45 |
| 1638    |         |         |   | 22,57 |
| 1640    |         |         |   | 22,59 |
| 1645    |         |         |   | 22,65 |
| 1650    |         |         |   | 22,72 |
| 1660    |         |         |   | 22,87 |
| 1730    |         |         |   | 23,50 |
| 1735    |         |         |   | 23,57 |
| 1750    |         |         |   | 23,78 |
| 1838    |         |         |   | 24,97 |
| 1845    |         |         |   | 25,07 |
| 2150    |         |         |   | 26,55 |
| 1735    | 20      | 0,90    | 2 | 26,05 |
| 2000    |         |         |   | 29,85 |
| 2037    |         |         |   | 30,41 |
| 2058    |         |         |   | 34,08 |
| 2060    |         |         |   | 30,75 |
| 2070    |         |         |   | 30,87 |
| 2080    |         |         |   | 30,99 |
| 2085    |         |         |   | 31,05 |
| 2090    |         |         |   | 31,11 |
| 2100    |         |         |   | 31,23 |
| 2110    |         |         |   | 31,35 |
| 2115    |         |         |   | 31,43 |
| 2120    |         |         |   | 31,51 |

| L<br>mm | A<br>mm | E<br>mm |   | €     |
|---------|---------|---------|---|-------|
| 2140    | 20      | 0,90    | 2 | 31,72 |
| 2215    |         |         |   | 32,50 |
| 2265    |         |         |   | 33,23 |
| 2355    |         |         |   | 34,31 |
| 2360    |         |         |   | 34,38 |
| 2362    |         |         |   | 34,40 |
| 2370    |         |         |   | 34,52 |
| 2375    |         |         |   | 34,57 |
| 2450    |         |         |   | 35,44 |
| 2465    |         |         |   | 35,66 |
| 2520    |         |         |   | 36,31 |
| 2530    |         |         |   | 36,44 |
| 2540    |         |         |   | 36,59 |
| 2625    |         |         |   | 37,81 |
| 2650    |         |         |   | 38,17 |
| 2665    |         |         |   | 38,39 |
| 2070    | 27      | 0,90    | 2 | 31,44 |
| 2080    |         |         |   | 31,58 |
| 2090    |         |         |   | 31,81 |
| 2110    |         |         |   | 32,03 |
| 2150    |         |         |   | 32,48 |
| 2400    |         |         |   | 35,54 |
| 2440    |         |         |   | 36,13 |
| 2450    |         |         |   | 36,28 |
| 2455    |         |         |   | 36,34 |
| 2460    |         |         |   | 36,40 |
| 2470    |         |         |   | 36,53 |
| 2480    |         |         |   | 36,66 |
| 2500    |         |         |   | 36,96 |
| 2540    |         |         |   | 37,38 |
| 2550    |         |         |   | 37,53 |
| 2565    |         |         |   | 37,72 |
| 2570    |         |         |   | 37,79 |
| 2580    |         |         |   | 37,93 |
| 2600    |         |         |   | 38,17 |
| 2625    |         |         |   | 38,54 |
| 2655    |         |         |   | 38,73 |
| 2660    |         |         |   | 38,80 |
| 2680    |         |         |   | 39,19 |

| L<br>mm | A<br>mm | E<br>mm |   | €     |
|---------|---------|---------|---|-------|
| 2700    | 27      | 0,90    | 2 | 39,45 |
| 2710    |         |         |   | 39,59 |
| 2720    |         |         |   | 39,74 |
| 2735    |         |         |   | 40,01 |
| 2740    |         |         |   | 40,03 |
| 2750    |         |         |   | 40,07 |
| 2755    |         |         |   | 40,13 |
| 2760    |         |         |   | 40,20 |
| 2765    |         |         |   | 40,26 |
| 2770    |         |         |   | 40,33 |
| 2820    |         |         |   | 40,95 |
| 2825    |         |         |   | 41,02 |
| 2830    |         |         |   | 41,09 |
| 2835    |         |         |   | 41,15 |
| 2845    |         |         |   | 41,28 |
| 2847    |         |         |   | 41,31 |
| 2910    |         |         |   | 42,10 |
| 2920    |         |         |   | 42,21 |
| 2925    |         |         |   | 42,29 |
| 2940    |         |         |   | 42,45 |
| 2945    |         |         |   | 42,52 |
| 2950    |         |         |   | 42,60 |
| 3010    |         |         |   | 43,37 |
| 3025    |         |         |   | 43,58 |
| 3035    |         |         |   | 43,72 |
| 3080    |         |         |   | 44,21 |
| 3090    |         |         |   | 44,35 |
| 3100    |         |         |   | 44,51 |
| 3110    |         |         |   | 44,64 |
| 3120    |         |         |   | 44,78 |
| 3150    |         |         |   | 45,14 |
| 3160    |         |         |   | 45,29 |
| 3180    |         |         |   | 45,53 |
| 3240    |         |         |   | 46,39 |
| 3250    |         |         |   | 46,53 |
| 3300    |         |         |   | 46,93 |
| 3320    |         |         |   | 47,21 |
| 3345    |         |         |   | 47,57 |
| 3352    |         |         |   | 47,67 |
| 3370    |         |         |   | 47,93 |

| L<br>mm | A<br>mm | E<br>mm |   | €      |
|---------|---------|---------|---|--------|
| 3380    | 27      | 0,90    | 2 | 48,07  |
| 3420    |         |         |   | 48,55  |
| 3430    |         |         |   | 48,69  |
| 3560    |         |         |   | 50,20  |
| 3600    |         |         |   | 50,76  |
| 3630    |         |         |   | 51,18  |
| 3640    |         |         |   | 51,32  |
| 3660    |         |         |   | 51,60  |
| 3700    |         |         |   | 52,17  |
| 3800    |         |         |   | 53,37  |
| 3820    |         |         |   | 53,65  |
| 3830    |         |         |   | 53,79  |
| 3930    |         |         |   | 55,19  |
| 4090    |         |         |   | 57,04  |
| 4115    |         |         |   | 57,39  |
| 3505    | 34      | 1,10    | 1 | 58,80  |
| 3634    |         |         |   | 60,96  |
| 4000    |         |         |   | 66,07  |
| 4120    |         |         |   | 68,01  |
| 4130    |         |         |   | 68,18  |
| 4250    |         |         |   | 70,16  |
| 4400    |         |         |   | 72,31  |
| 4500    |         |         |   | 73,67  |
| 4570    |         |         |   | 74,75  |
| 4600    |         |         |   | 75,24  |
| 4930    |         |         |   | 80,07  |
| 4970    |         |         |   | 80,74  |
| 5080    |         |         |   | 82,50  |
| 5157    |         |         |   | 83,49  |
| 5200    |         |         |   | 84,19  |
| 5270    |         |         |   | 85,32  |
| 5320    |         |         |   | 86,13  |
| 4115    | 41      | 1,30    | 1 | 96,95  |
| 4500    |         |         |   | 106,02 |
| 5000    |         |         |   | 116,23 |
| 5400    |         |         |   | 125,53 |
| 5450    |         |         |   | 126,69 |
| 5920    |         |         |   | 136,31 |
| 6600    |         |         |   | 150,30 |
| 7470    |         |         |   | 170,01 |

Tipo Dentado (TZ) / Teeth Type (TZ) / Type Denture (TZ)

| A x E     | TPI |     |   |     |   |     |     |      |      |       |
|-----------|-----|-----|---|-----|---|-----|-----|------|------|-------|
|           | 2   | 2-3 | 3 | 3-4 | 4 | 4-6 | 5-8 | 6-10 | 8-12 | 10-14 |
| 13 x 0,65 |     |     |   |     |   |     |     | S    | S    | S     |
| 20 x 0,90 |     |     | K |     | K | K   | S   | S    | S    | S     |
| 27 x 0,90 | K   |     | K | K   | K | K   | S   | S    | S    | S     |
| 34 x 1,10 |     | K   | K | K   |   | K   | S   | S    | S    |       |
| 41 x 1,30 |     | K   |   | K   |   | K   | S   |      |      |       |

Rollos sin Soldadura  
Rolls without Welding  
Rouleaux non soudées

| L<br>mm | A<br>mm | E<br>mm | €       |
|---------|---------|---------|---------|
| 99999   | 20      | 0,90    | 1082,77 |
| 99999   | 27      | 0,90    | 1151,40 |
| 99999   | 34      | 1,10    | 1361,09 |
| 75000   | 41      | 1,30    | 1486,92 |

Ejemplo Pedido / Order Example / Exemple Commande

Ref. 4223 + L 2450 + A 27 + E 0,90 + TPI 6-10 + TZ S



Comprometidos con la fabricación y el empleo izartool.com Committed to manufacturing and jobs

111

Ref. **1998****ARCO SIERRA**  
Hacksaw Frame  
Monture ScieRef. **1995****ARCO SIERRA**  
Hacksaw Frame  
Monture ScieTPI  
24

INOX

Bimetal

Corte recto, vertical y horizontal. Grip antideslizante.

Straight cuts, both vertical &amp; horizontal. Grip non-skid

Coupe droite et horizontale. Anti-glissage

| TPI | L<br>mm |  | Nº Art. | €     |
|-----|---------|--|---------|-------|
| 24  | 300     |  | 1 25354 | 13,01 |

TPI  
24

HSS

Corte recto, vertical y horizontal

Straight cuts, vertical &amp; horizontal

Coupe droite et horizontale

| TPI | L<br>mm |  | Nº Art. | €    |
|-----|---------|--|---------|------|
| 24  | 300     |  | 1 34551 | 9,37 |

Ref. **1999****HOJA SIERRA**  
Hacksaw Blade  
Lame Scie

Bimetal

TPI  
18-24  
32

INOX

Aceros &lt;850 N/mm² Steel

Aceros &lt;1000 N/mm² Steel

INOX / Stainless Steel

| TPI | L<br>mm |     | Nº Art. | €      |
|-----|---------|-----|---------|--------|
| 18  | 300     | 100 | 13856   | 141,95 |
| 24  | 300     | 20  | 25355   | 32,32  |
| 24  | 300     | 100 | 25387   | 141,95 |
| 32  | 300     | 100 | 28767   | 141,95 |

Ref. **1997****HOJA SIERRA**  
Hacksaw Blade  
Lame Scie

Bimetal

TPI  
18-24  
32

Aceros &lt;850 N/mm² Steel

Aceros &lt;1000 N/mm² Steel

| TPI | L<br>mm |     | Nº Art. | €      |
|-----|---------|-----|---------|--------|
| 18  | 300     | 100 | 34553   | 120,11 |
| 24  | 300     | 20  | 34552   | 28,25  |
| 24  | 300     | 100 | 34554   | 120,11 |
| 32  | 300     | 100 | 34555   | 120,11 |

Ref. **1996****HOJA SIERRA**  
Hacksaw Blade  
Lame Scie

CrV

TPI  
24

| TPI | L<br>mm |    | Nº Art. | €     |
|-----|---------|----|---------|-------|
| 24  | 300     | 50 | 17139   | 48,16 |

Solo para / only for / pour: Ref. 1995

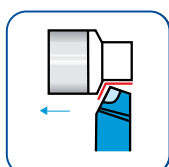
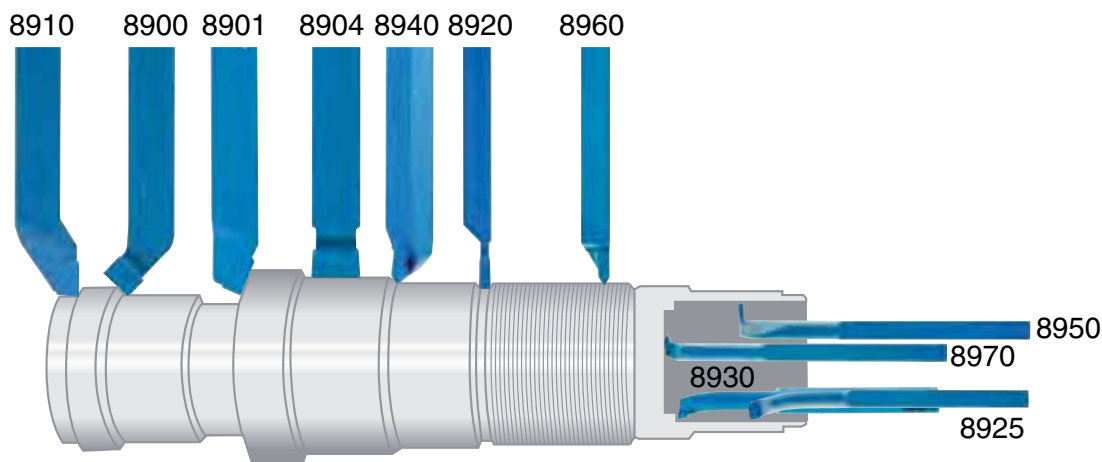




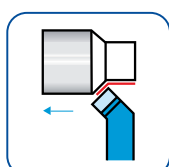
# HERRAMIENTAS TORNEADO

Brazed Turning Tools

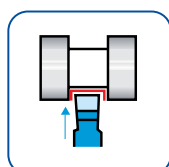
Outils de Tour



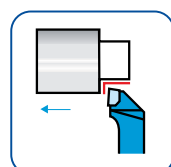
ISO 1 (8901)



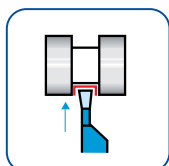
ISO 2 (8900)



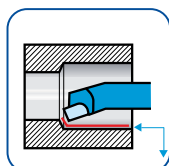
ISO 4 (8904)



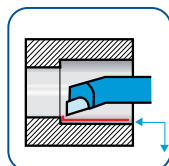
ISO 6 (8910)



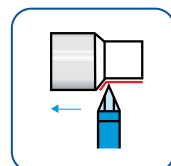
ISO 7 (8920)



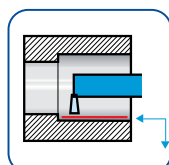
ISO 8 (8925)



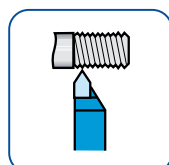
ISO 9 (8930)



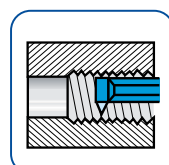
ISO 10 (8940)



ISO 11 (8950)



ISO 12 (8960)



ISO 13 (8970)

## Calidad K-10

Especial para mecanizados de gran precisión y semi-acabado en fundición, aceros aleados, materiales de viruta corta y no ferrosos.

## K-10 Quality

Special for high precision and semi-finishing machining of cast iron, alloyed steels, short chipping and non-ferrous materials.

## Qualité K-10

Spéciale pour usinage d'haute précision et semi-finition fonte, alliages aciers, aciers copeaux courts et non-ferriques.

## Calidad M-20

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.

## M-20 Quality

Special for high precision and semi-finishing machining of cast iron, alloyed steels, short chipping and non-ferrous materials.

## Qualité M-20

Spécial finition et ébauche tendre d'aciers, aciers au manganèse, fonte et aciers résistants au chaud et non ferritiques à faibles ou moyennes vitesses de coupe.

## Calidad P-20

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.

## P-20 Quality

Special for finishing and light roughing of steel, cast steel, manganese steel, cast iron and heat-resistance & non-ferrous metals at medium/low cutting speeds.

## Qualité P-20

Spécial finition et ébauche tendre d'aciers, aciers au manganèse, fonte et aciers résistants au chaud et non ferritiques à faibles ou moyennes vitesses de coupe.

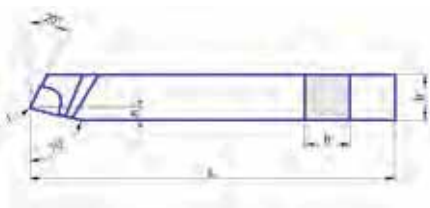
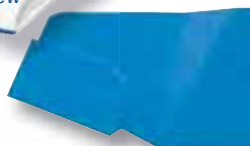


# 8901

## HERRAMIENTA TORNEADO PLACA SOLDADA CILINDRADO 70°

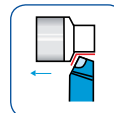
70° Straight Brazed Turning Tool

Outil de Tour Plaque Soudé Cylindrage 70°



DIN  
4971

ISO  
1



Fundición / Cast Iron / Fonte

Cobre / Copper / Cuivre

Aluminio / Aluminium

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

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

Aceros <1300 N/mm<sup>2</sup> Steel

INOX / Stainless Steel

Fundición / Cast Iron / Fonte

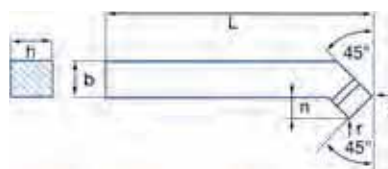
| h<br>mm | b<br>mm | L<br>mm | R/L | n<br>mm | r<br>mm | Calidad<br>Quality / Qualité<br>K-10 |       | Calidad<br>Quality / Qualité<br>P-20 |       |
|---------|---------|---------|-----|---------|---------|--------------------------------------|-------|--------------------------------------|-------|
|         |         |         |     |         |         | Nº Art.                              | €     | Nº Art.                              | €     |
| 10      | x 10    | x 90    | - L | 4       | 0,2     | 55889                                | 7,24  | 55888                                | 7,24  |
| 10      | x 10    | x 90    | - R | 4       | 0,2     | 55891                                | 7,24  | 55893                                | 7,24  |
| 12      | x 12    | x 100   | - L | 5       | 0,4     | 55897                                | 7,78  | 55894                                | 7,78  |
| 12      | x 12    | x 100   | - R | 5       | 0,4     | 55899                                | 7,78  | 55896                                | 7,78  |
| 16      | x 16    | x 110   | - L | 6       | 0,4     | 55905                                | 9,79  | 55903                                | 9,79  |
| 16      | x 16    | x 110   | - R | 6       | 0,4     | 55906                                | 9,79  | 55904                                | 9,79  |
| 20      | x 20    | x 125   | - L | 8       | 0,8     | 55913                                | 13,36 | 55911                                | 13,36 |
| 20      | x 20    | x 125   | - R | 8       | 0,8     | 55914                                | 13,36 | 55912                                | 13,36 |
| 25      | x 25    | x 140   | - L | 10      | 0,8     | 55919                                | 19,76 | 55917                                | 19,76 |
| 25      | x 25    | x 140   | - R | 10      | 0,8     | 55920                                | 19,76 | 55918                                | 19,76 |

Ref. **8900**

## HERRAMIENTA TORNEADO PLACA SOLDADA ESCUADRADO 45°

45° Bent Brazed Turning Tool

Outil de Tour Plaque Soudé Décolletage 45°



DIN  
4972

ISO  
2



Fundición / Cast Iron / Fonte

Cobre / Copper / Cuivre

Aluminio / Aluminium

INOX / Stainless Steel

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

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

Aceros <1300 N/mm<sup>2</sup> Steel

INOX / Stainless Steel

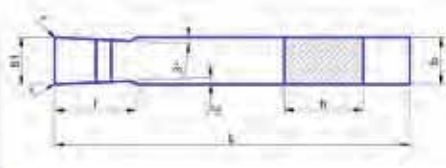
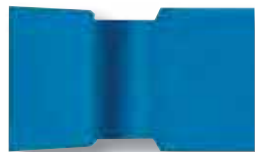
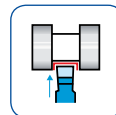
Fundición / Cast Iron / Fonte

| h<br>mm | b<br>mm | L<br>mm | R/L | n<br>mm | r<br>mm | Calidad<br>Quality / Qualité<br>K-10 |       | Calidad<br>Quality / Qualité<br>M-20 |       | Calidad<br>Quality / Qualité<br>P-20 |       |
|---------|---------|---------|-----|---------|---------|--------------------------------------|-------|--------------------------------------|-------|--------------------------------------|-------|
|         |         |         |     |         |         | Nº Art.                              | €     | Nº Art.                              | €     | Nº Art.                              | €     |
| 12      | x 12    | x 100   | - L | 7       | 0,4     | 29179                                | 8,64  | 56073                                | 8,64  | 13586                                | 8,64  |
| 12      | x 12    | x 100   | - R | 7       | 0,4     | 29153                                | 8,64  | 56074                                | 8,64  | 13585                                | 8,64  |
| 16      | x 16    | x 110   | - L | 8       | 0,4     | 29181                                | 10,77 | 56076                                | 10,77 | 13589                                | 10,77 |
| 16      | x 16    | x 110   | - R | 8       | 0,4     | 18258                                | 10,77 | 56077                                | 10,77 | 13588                                | 10,77 |
| 20      | x 20    | x 125   | - L | 10      | 0,8     | 13051                                | 13,68 | 56078                                | 13,68 | 13592                                | 13,68 |
| 20      | x 20    | x 125   | - R | 10      | 0,8     | 28343                                | 13,68 | 56079                                | 13,68 | 13591                                | 13,68 |
| 25      | x 25    | x 140   | - L | 12      | 0,8     | 29182                                | 19,36 | 56080                                | 19,36 | 13597                                | 19,36 |
| 25      | x 25    | x 140   | - R | 12      | 0,8     | 26003                                | 19,36 | 56082                                | 19,36 | 13594                                | 19,36 |

Ref. **8904****HERRAMIENTA TORNEADO PLACA SOLDADA RANURADO EXTERIOR**

Wide Face Square Nose Brazed Turning Tool

Outil de Tour Plaquette Soudé Rainurage Extérieur

DIN  
4976ISO  
4no  
ve  
dad  
new

Fundición / Cast Iron / Fonte

Cobre / Copper / Cuivre

Aluminio / Aluminium

Aceros <850 N/mm<sup>2</sup> SteelAceros <1000 N/mm<sup>2</sup> SteelAceros <1300 N/mm<sup>2</sup> Steel

INOX / Stainless Steel

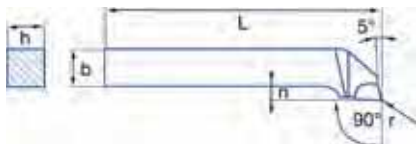
Fundición / Cast Iron / Fonte

| h<br>mm | b<br>mm | L<br>mm | R/L | r<br>mm | l<br>mm | b1<br>mm | Calidad<br>Quality / Qualité<br>K-10 |       | Calidad<br>Quality / Qualité<br>P-20 |       |
|---------|---------|---------|-----|---------|---------|----------|--------------------------------------|-------|--------------------------------------|-------|
|         |         |         |     |         |         |          | Nº Art.                              | €     | Nº Art.                              | €     |
| 20      | x 12    | x 125   | - L | 0,4     | 20      | 12       | 55925                                | 10,51 | 55923                                | 10,51 |
| 20      | x 12    | x 125   | - R | 0,4     | 20      | 12       | 55926                                | 10,51 | 55924                                | 10,51 |
| 25      | x 16    | x 140   | - L | 0,4     | 25      | 16       | 55931                                | 14,66 | 55927                                | 14,66 |
| 25      | x 16    | x 140   | - R | 0,4     | 25      | 16       | 55932                                | 14,66 | 55928                                | 14,66 |
| 32      | x 20    | x 170   | - L | 0,4     | 32      | 20       | 55937                                | 21,97 | 55935                                | 21,97 |
| 32      | x 20    | x 170   | - R | 0,4     | 32      | 20       | 55938                                | 21,97 | 55936                                | 21,97 |

Ref. **8910****HERRAMIENTA TORNEADO PLACA SOLDADA ESCUADRADO 90°**

90° Offset Side Brazed Turning Tool

Outil de Tour Plaquette Soudé Décolletage 90°

DIN  
4980ISO  
6

Fundición / Cast Iron / Fonte

Cobre / Copper / Cuivre

Aluminio / Aluminium

DIN  
4980ISO  
6no  
ve  
dad  
new

INOX / Stainless Steel

Aceros <850 N/mm<sup>2</sup> SteelAceros <1000 N/mm<sup>2</sup> SteelAceros <1300 N/mm<sup>2</sup> Steel

INOX / Stainless Steel

Fundición / Cast Iron / Fonte

| h<br>mm | b<br>mm | L<br>mm | R/L | n<br>mm | r<br>mm | Calidad<br>Quality / Qualité<br>K-10 |       | Calidad<br>Quality / Qualité<br>M-20 |       | Calidad<br>Quality / Qualité<br>P-20 |       |
|---------|---------|---------|-----|---------|---------|--------------------------------------|-------|--------------------------------------|-------|--------------------------------------|-------|
|         |         |         |     |         |         | Nº Art.                              | €     | Nº Art.                              | €     | Nº Art.                              | €     |
| 10      | x 10    | x 090   | - L | 4       | 0,2     | 29183                                | 7,83  | 56083                                | 7,83  | 13601                                | 7,83  |
| 10      | x 10    | x 090   | - R | 4       | 0,2     | 26488                                | 7,83  | 56085                                | 7,83  | 13600                                | 7,83  |
| 12      | x 12    | x 100   | - L | 5       | 0,4     | 29185                                | 8,68  | 56086                                | 8,68  | 13604                                | 8,68  |
| 12      | x 12    | x 100   | - R | 5       | 0,4     | 26707                                | 8,68  | 56088                                | 8,68  | 13603                                | 8,68  |
| 16      | x 16    | x 110   | - L | 6       | 0,4     | 13058                                | 10,53 | 56089                                | 10,53 | 13607                                | 10,53 |
| 16      | x 16    | x 110   | - R | 6       | 0,4     | 27460                                | 10,53 | 56091                                | 10,53 | 13606                                | 10,53 |
| 20      | x 20    | x 125   | - L | 8       | 0,8     | 10825                                | 14,01 | 56092                                | 14,01 | 13612                                | 14,01 |
| 20      | x 20    | x 125   | - R | 8       | 0,8     | 27461                                | 14,01 | 56093                                | 14,01 | 13609                                | 14,01 |
| 25      | x 25    | x 140   | - L | 10      | 0,8     | 17090                                | 20,41 | 56094                                | 20,41 | 13616                                | 20,41 |
| 25      | x 25    | x 140   | - R | 10      | 0,8     | 11181                                | 20,41 | 56095                                | 20,41 | 13615                                | 20,41 |

Ref. **8920****HERRAMIENTA TORNEADO PLACA SOLDADA TRONZADO**

Parting Brazed Turning Tool

Outil de Tour Plaque Soudé Tronçonnage

DIN  
4981ISO  
7

Fundición / Cast Iron / Fonte

Cobre / Copper / Cuivre

Aluminio / Aluminium



INOX / Stainless Steel

Aceros &lt;850 N/mm² Steel

Aceros &lt;1000 N/mm² Steel

Aceros &lt;1300 N/mm² Steel

INOX / Stainless Steel

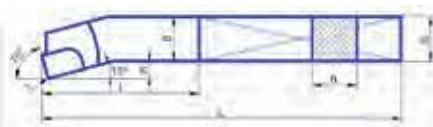
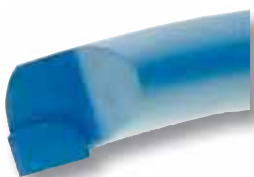
Fundición / Cast Iron / Fonte

| h<br>mm | b<br>mm | L<br>mm | R/L | r<br>mm | l<br>mm | b1<br>mm | Calidad<br>Quality / Qualité<br>K-10 |       | Calidad<br>Quality / Qualité<br>M-20 |       | Calidad<br>Quality / Qualité<br>P-20 |       |
|---------|---------|---------|-----|---------|---------|----------|--------------------------------------|-------|--------------------------------------|-------|--------------------------------------|-------|
|         |         |         |     |         |         |          | Nº Art.                              | €     | Nº Art.                              | €     | Nº Art.                              | €     |
| 12      | x 8     | x 100   | - L | 0,2     | 12      | 3        | 28344                                | 8,11  |                                      |       | 13619                                | 8,11  |
| 12      | x 8     | x 100   | - R | 0,2     | 12      | 3        | 27519                                | 8,11  | 56098                                | 8,11  | 13618                                | 8,11  |
| 16      | x 10    | x 110   | - L | 0,2     | 14      | 4        | 29186                                | 8,86  |                                      |       | 13622                                | 8,86  |
| 16      | x 10    | x 110   | - R | 0,2     | 14      | 4        | 19523                                | 8,86  | 56100                                | 8,86  | 13621                                | 8,86  |
| 20      | x 12    | x 125   | - L | 0,2     | 16      | 5        | 29187                                | 10,24 |                                      |       | 13625                                | 10,24 |
| 20      | x 12    | x 125   | - R | 0,2     | 16      | 5        | 22685                                | 10,24 | 56102                                | 10,24 | 13624                                | 10,24 |
| 25      | x 16    | x 140   | - L | 0,3     | 20      | 6        | 29189                                | 13,57 |                                      |       | 13628                                | 13,57 |
| 25      | x 16    | x 140   | - R | 0,3     | 20      | 6        | 29188                                | 13,57 | 56104                                | 13,57 | 13627                                | 13,57 |

Ref. **8925****HERRAMIENTA TORNEADO PLACA SOLDADA MANDRINADO**

Boring Straight Brazed Turning Tool

Outil de Tour Plaque Soudé Alésage

DIN  
4973ISO  
8

Fundición / Cast Iron / Fonte

Cobre / Copper / Cuivre

Aluminio / Aluminium

Aceros &lt;850 N/mm² Steel

Aceros &lt;1000 N/mm² Steel

Aceros &lt;1300 N/mm² Steel

INOX / Stainless Steel

Fundición / Cast Iron / Fonte

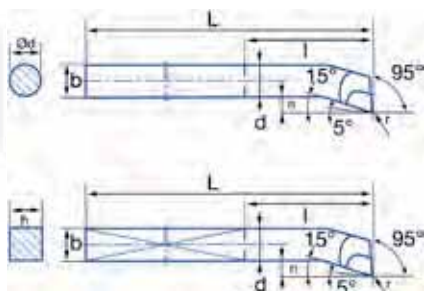
| h<br>mm | b<br>mm | L<br>mm | n<br>mm | r<br>mm | Calidad<br>Quality / Qualité<br>K-10 |       | Calidad<br>Quality / Qualité<br>P-20 |       |
|---------|---------|---------|---------|---------|--------------------------------------|-------|--------------------------------------|-------|
|         |         |         |         |         | Nº Art.                              | €     | Nº Art.                              | €     |
| 8       | x 8     | x 125   | 3       | 0,4     | 38220                                | 10,36 | 38218                                | 10,36 |
| 10      | x 10    | x 150   | 4       | 0,4     | 38224                                | 10,67 | 38222                                | 10,67 |
| 12      | x 12    | x 180   | 5       | 0,4     | 38391                                | 10,97 | 38227                                | 10,97 |
| 16      | x 16    | x 210   | 6       | 0,4     | 38395                                | 12,30 | 38393                                | 12,30 |
| 20      | x 20    | x 250   | 8       | 0,4     | 38399                                | 15,99 | 38397                                | 15,99 |
| 25      | x 25    | x 300   | 10      | 0,8     | 38403                                | 25,18 | 38401                                | 25,18 |

Ref. **8930**

## HERRAMIENTA TORNEADO PLACA SOLDADA CILINDRADO INTERIOR

Internal Sharped Brazed Turning Tool

Outil de Tour Plaque Soudé Cylindrage Interieur



DIN  
4974

ISO  
9



Fundición / Cast Iron / Fonte

Cobre / Copper / Cuivre

Aluminio / Aluminium



INOX / Stainless Steel

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

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

Aceros <1300 N/mm<sup>2</sup> Steel

INOX / Stainless Steel

Fundición / Cast Iron / Fonte

|    |    |    |    |     |    |    |     | Calidad<br>Quality / Qualité<br>K-10 |    | Calidad<br>Quality / Qualité<br>M-20 |       | Calidad<br>Quality / Qualité<br>P-20 |       |
|----|----|----|----|-----|----|----|-----|--------------------------------------|----|--------------------------------------|-------|--------------------------------------|-------|
| h  | b  | L  | d  | n   | r  | l  | D   | Nº Art.                              | €  | Nº Art.                              | €     | Nº Art.                              | €     |
| mm | mm | mm | mm | mm  | mm | mm | mm  |                                      |    |                                      |       |                                      |       |
| 8  | x  | 8  | x  | 125 | 8  | 3  | 0,2 | 40                                   | 14 | 14971                                | 10,67 | 13630                                | 10,67 |
| 10 | x  | 10 | x  | 150 | 10 | 4  | 0,2 | 50                                   | 18 | 27462                                | 10,53 | 13631                                | 10,53 |
| 12 | x  | 12 | x  | 180 | 12 | 5  | 0,2 | 63                                   | 21 | 27464                                | 11,17 | 13633                                | 11,17 |
| 16 | x  | 16 | x  | 210 | 16 | 6  | 0,2 | 80                                   | 27 | 11152                                | 13,30 | 13634                                | 13,30 |
| 20 | x  | 20 | x  | 250 | 20 | 8  | 0,4 | 100                                  | 34 | 11754                                | 16,82 | 13636                                | 16,82 |
| 25 | x  | 25 | x  | 300 | 25 | 10 | 0,4 | 125                                  | 43 | 27518                                | 25,55 | 13639                                | 25,55 |
| 32 | x  | 32 | x  | 355 | 32 | 12 | 0,8 | 160                                  | 52 | 13896                                | 44,97 | 13642                                | 44,97 |

Ref. **8940**

## HERRAMIENTA TORNEADO PLACA SOLDADA CILINDRADO RECTO

Sharped Straight Brazed Turning Tool

Outil de Tour Plaque Soudé Cylindrage Droit



DIN  
4975

ISO  
10



Fundición / Cast Iron / Fonte

Cobre / Copper / Cuivre

Aluminio / Aluminium

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

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

Aceros <1300 N/mm<sup>2</sup> Steel

INOX / Stainless Steel

Fundición / Cast Iron / Fonte

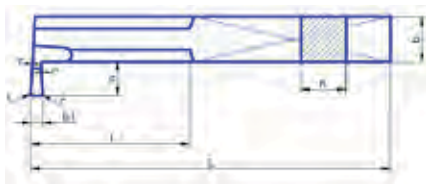
|    |   |    |   |     | Calidad<br>Quality / Qualité<br>K-10 |         | Calidad<br>Quality / Qualité<br>P-20 |         |       |
|----|---|----|---|-----|--------------------------------------|---------|--------------------------------------|---------|-------|
| h  |   | b  |   | L   | r                                    | Nº Art. | €                                    | Nº Art. | €     |
| mm |   | mm |   | mm  | mm                                   |         |                                      |         |       |
| 16 | x | 10 | x | 110 | 0,2                                  | 29190   | 7,96                                 | 13645   | 7,96  |
| 20 | x | 12 | x | 125 | 0,4                                  | 29191   | 9,23                                 | 13646   | 9,23  |
| 25 | x | 16 | x | 140 | 0,4                                  | 29192   | 11,76                                | 13648   | 11,76 |



Ref. **8950****HERRAMIENTA TORNEADO PLACA SOLDADA RANURADO INTERIOR**

Internal Undercutting Brazed Turning Tool

Outil de Tour Plaquette Soudé Rainurage Interieur

DIN  
263ISO  
11

Fundición / Cast Iron / Fonte

Cobre / Copper / Cuivre

Aluminio / Aluminium

Aceros <850 N/mm<sup>2</sup> SteelAceros <1000 N/mm<sup>2</sup> SteelAceros <1300 N/mm<sup>2</sup> Steel

INOX / Stainless Steel

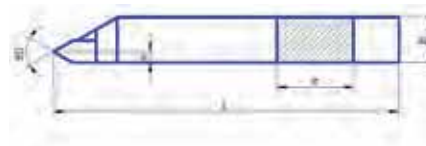
Fundición / Cast Iron / Fonte

| h<br>mm | b<br>mm | L<br>mm | n<br>mm | r<br>mm | b1<br>mm | Calidad<br>Quality / Qualité<br>K-10 |       | Calidad<br>Quality / Qualité<br>P-20 |       |
|---------|---------|---------|---------|---------|----------|--------------------------------------|-------|--------------------------------------|-------|
|         |         |         |         |         |          | Nº Art.                              | €     | Nº Art.                              | €     |
| 12      | x 12    | x 180   | 10      | 0,2     | 4        | 38407                                | 17,41 | 38405                                | 17,41 |
| 16      | x 16    | x 210   | 12      | 0,2     | 5        | 38411                                | 21,76 | 38409                                | 21,76 |
| 20      | x 20    | x 250   | 16      | 0,4     | 6        | 38415                                | 27,48 | 38413                                | 27,48 |
| 25      | x 25    | x 300   | 20      | 0,4     | 8        | 38419                                | 34,53 | 38417                                | 34,53 |

Ref. **8960****HERRAMIENTA TORNEADO PLACA SOLDADA ROSCADO EXTERIOR**

External Threading Brazed Turning Tool

Outil de Tour Plaquette Soudé Taraudage Exterieur

DIN  
282ISO  
12

Fundición / Cast Iron / Fonte

Cobre / Copper / Cuivre

Aluminio / Aluminium

Aceros <850 N/mm<sup>2</sup> SteelAceros <1000 N/mm<sup>2</sup> SteelAceros <1300 N/mm<sup>2</sup> Steel

INOX / Stainless Steel

Fundición / Cast Iron / Fonte

| h<br>mm | b<br>mm | L<br>mm | R/L | n<br>mm | Calidad<br>Quality / Qualité<br>K-10 |       | Calidad<br>Quality / Qualité<br>P-20 |       |
|---------|---------|---------|-----|---------|--------------------------------------|-------|--------------------------------------|-------|
|         |         |         |     |         | Nº Art.                              | €     | Nº Art.                              | €     |
| 16      | x 10    | x 110   | - L | 2,0     | 38424                                | 9,67  | 38422                                | 9,67  |
| 16      | x 10    | x 110   | - R | 2,0     | 38423                                | 9,67  | 38421                                | 9,67  |
| 20      | x 12    | x 125   | - L | 2,5     | 38428                                | 11,33 | 38426                                | 11,33 |
| 20      | x 12    | x 125   | - R | 2,5     | 38427                                | 11,33 | 38425                                | 11,33 |
| 25      | x 16    | x 140   | - L | 3,0     | 38432                                | 14,75 | 38430                                | 14,75 |
| 25      | x 16    | x 140   | - R | 3,0     | 38431                                | 14,75 | 38429                                | 14,75 |

Ref. **8970**

## HERRAMIENTA TORNEADO PLACA SOLDADA ROSCADO INTERIOR

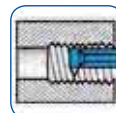
Internal Threading Brazed Turning Tool

Outil de Tour Plaquette Soudé Taraudage Interieur



DIN  
283

ISO  
13



Fundición / Cast Iron / Fonte

Cobre / Copper / Cuivre

Aluminio / Aluminium

Aceros <850 N/mm² Steel

Aceros <1000 N/mm² Steel

Aceros <1300 N/mm² Steel

INOX / Stainless Steel

Fundición / Cast Iron / Fonte

| h<br>mm | b<br>mm | L<br>mm | R/L | n<br>mm | Calidad<br>Quality / Qualité<br>K-10 |       | Calidad<br>Quality / Qualité<br>P-20 |       |
|---------|---------|---------|-----|---------|--------------------------------------|-------|--------------------------------------|-------|
|         |         |         |     |         | Nº Art.                              | €     | Nº Art.                              | €     |
| 10      | x 10    | x 150   | - L | 5       | 38436                                | 16,60 | 38434                                | 16,60 |
| 10      | x 10    | x 150   | - R | 5       | 38435                                | 16,60 | 38433                                | 16,60 |
| 12      | x 12    | x 180   | - L | 6       | 38440                                | 16,89 | 38438                                | 16,89 |
| 12      | x 12    | x 180   | - R | 6       | 38439                                | 16,89 | 38437                                | 16,89 |
| 16      | x 16    | x 210   | - L | 8       | 38444                                | 22,21 | 38442                                | 22,21 |
| 16      | x 16    | x 210   | - R | 8       | 38443                                | 22,21 | 38441                                | 22,21 |
| 20      | x 20    | x 250   | - L | 10      | 38448                                | 26,36 | 38446                                | 26,36 |
| 20      | x 20    | x 250   | - R | 10      | 38447                                | 26,36 | 38445                                | 26,36 |
| 25      | x 25    | x 300   | - L | 12      | 38452                                | 37,39 | 38450                                | 37,39 |
| 25      | x 25    | x 300   | - R | 12      | 38451                                | 37,39 | 38449                                | 37,39 |

Ref. **8990**

## CUCHILLA CUADRADA TORNEADO

Square Turning Blade  
Outil de Tour Carré



Cuchillas Torno  
Turning Tools  
Outils de Tour

HSSE  
10%Co

DIN  
4964B

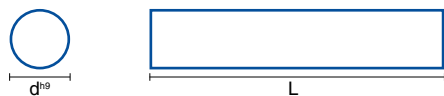


| a<br>mm | b<br>mm | L<br>mm | Nº Art. | €      |
|---------|---------|---------|---------|--------|
| 6       | x 6     | x 100   | 35462   | 6,89   |
| 6       | x 6     | x 160   | 35463   | 10,29  |
| 6       | x 6     | x 200   | 35464   | 12,78  |
| 8       | x 8     | x 100   | 35465   | 11,57  |
| 8       | x 8     | x 160   | 35466   | 15,95  |
| 8       | x 8     | x 200   | 35467   | 19,04  |
| 10      | x 10    | x 100   | 35468   | 16,54  |
| 10      | x 10    | x 160   | 35469   | 24,59  |
| 10      | x 10    | x 200   | 35470   | 31,53  |
| 12      | x 12    | x 100   | 35471   | 20,20  |
| 12      | x 12    | x 160   | 35472   | 28,28  |
| 12      | x 12    | x 200   | 35473   | 36,74  |
| 14      | x 14    | x 200   | 35474   | 43,63  |
| 16      | x 16    | x 200   | 35475   | 54,32  |
| 18      | x 18    | x 200   | 35476   | 78,91  |
| 20      | x 20    | x 200   | 35477   | 101,71 |
| 25      | x 25    | x 200   | 35478   | 159,36 |

Ref. **8991**

## CUCHILLA REDONDA TORNEADO

Round Turning Blade  
Outil de Tour Rondé



Cuchillas Torno  
Turning Tools  
Outils de Tour

HSSE  
10%Co

DIN  
4964A



| d<br>mm | L<br>mm | Nº Art. | €     |
|---------|---------|---------|-------|
| 4       | x 100   | 35479   | 5,87  |
| 5       | x 100   | 35480   | 6,73  |
| 5       | x 200   | 35481   | 13,48 |
| 6       | x 100   | 35482   | 7,61  |
| 6       | x 160   | 35484   | 11,42 |
| 6       | x 200   | 35483   | 13,89 |
| 8       | x 100   | 35485   | 9,94  |
| 8       | x 160   | 35486   | 15,66 |
| 8       | x 200   | 35487   | 18,60 |
| 10      | x 100   | 35488   | 14,72 |

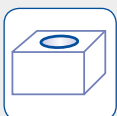
| d<br>mm | L<br>mm | Nº Art. | €      |
|---------|---------|---------|--------|
| 10      | x 160   | 35489   | 26,15  |
| 10      | x 200   | 35490   | 32,31  |
| 12      | x 100   | 35491   | 16,10  |
| 12      | x 200   | 35492   | 41,80  |
| 14      | x 200   | 35493   | 58,27  |
| 16      | x 200   | 35494   | 61,34  |
| 18      | x 200   | 35495   | 106,48 |
| 20      | x 200   | 35497   | 107,26 |

Ref. **8350**

## JUEGO REBARBADORES

Deburring Tool Sets

Jeux Ebavureurs



Juego  
Mod. B  
Set



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

Fundición / Cast Iron / Fonte

Cobre / Copper / Cuivre

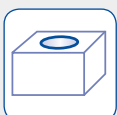
Latón / Brass / Laiton

Aluminio / Aluminium

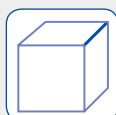
Plástico / Plastics / Plastiques



| Mod. | Cont.                                 | Nº Art. | €     |
|------|---------------------------------------|---------|-------|
| B    | Porta B Holder / B10 / B20 / Adapt. B | 12816   | 20,98 |



Juego  
Mod. E  
Set



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

Fundición / Cast Iron / Fonte

Cobre / Copper / Cuivre

Latón / Brass / Laiton

Aluminio / Aluminium

Plástico / Plastics / Plastiques



| Mod. | Cont.                                          | Nº Art. | €     |
|------|------------------------------------------------|---------|-------|
| E    | Porta E Holder / E100 / E200 / E300 / Adapt. E | 12805   | 23,69 |

Ref. **8351**

## ACCESORIOS REBARBADORES

Deburring Tool Accesories  
Accessoires Ebavureurs



Mango / Shank / Queue



Porta B Holder



Porta E Holder



Adapt. B



Adapt. E



B10



B20



E100



B10S HSSE



E200



E100S HSSE



E300

| Medida<br>Size<br>Dimension | Descripcion Artículo<br>Article Description<br>Description Article | Mod. |   | Nº Art. | €     |
|-----------------------------|--------------------------------------------------------------------|------|---|---------|-------|
| 00001                       | Mango Shank Queue                                                  |      | 1 | 12834   | 10,15 |
| 00002B                      | Porta Holder                                                       | B    | 1 | 12835   | 8,13  |
| 00003E                      | Porta Holder                                                       | E    | 1 | 12836   | 8,13  |
| 00004B                      | Adapt.                                                             | B    | 1 | 12838   | 1,81  |
| 00005E                      | Adapt.                                                             | E    | 1 | 12840   | 1,81  |

| Cuchillas<br>Blades<br>Outils | Material<br>Materiel |    | Nº Art. | €     |
|-------------------------------|----------------------|----|---------|-------|
| B10                           | HSS                  | 10 | 12825   | 13,91 |
| B10S                          | HSSE                 | 10 | 12826   | 15,04 |
| B20                           | HSS                  | 10 | 12827   | 13,91 |
| E100                          | HSS                  | 10 | 12829   | 17,30 |
| E100S                         | HSSE                 | 10 | 12830   | 18,05 |
| E200                          | HSS                  | 10 | 12831   | 17,30 |
| E300                          | HSS                  | 10 | 12833   | 19,92 |

| Aplicación<br>Application<br>Application                                     | Material<br>Material<br>Materiel | <div>Aceros &lt;850 N/mm² Steel</div> <div>Aluminio / Aluminium</div> <div>Cobre / Copper / Cuivre</div> <div>Latón / Brass / Laiton</div> <div>Fundición / Cast Iron / Fonte</div> <div>INOX / Stainless Steel</div> <div>Plástico / Plastics / Plastiques</div> |           |             |                                         |
|------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-----------------------------------------|
|                                                                              |                                  |                                                                                                                                                                                                                                                                   |           |             |                                         |
| Bordes rectos<br>Straight Edges<br>Bouts droits                              |                                  | B10, B10S,<br>E100, E100S                                                                                                                                                                                                                                         | B20, E200 | B10S, E100S | B10, B10S,<br>E100, E100S,<br>B20, 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 mm3-25  
mm

1/8 - 1"

Mini  
Compact

INOX / Stainless Steel

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   | 12,52 |

Ref. **8330****CORTA TUBOS 30 MM**30 mm Pipe Cutters  
Coupe Tubes 30 mm3-30  
mm1/8 -  
1 1/8"

INOX / Stainless Steel

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   | 12,97 |

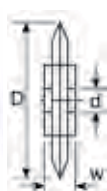
Ref. **8335****CORTA TUBOS 35 MM**35 mm Pipe Cutters  
Coupe Tubes 35 mm3-35  
mm1/8 -  
1 3/8"Cambio Rápido Cuchilla  
Quick Cutting Wheel Change  
Changement Rapide MoletteRebarbador incluido  
Deburring Tool included  
Ebavureur compris

INOX / Stainless Steel

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   | 31,81 |

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   | 2,48 |

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



- 1- Cuchilla INOX + Teflon®: Menor adherencia entre tubo y cuchilla
- 2- Zona de apoyo mejorada: Tubo mejor asentado, corte más preciso
- 3- Cambio cuchilla instantaneo: 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 Art. | €     |
|------|------------|------------------------------|---------|-------|
| 26   | 26         | 1"                           | 36633   | 27,78 |

Ref. **8321**

INOX+Teflon®  
Stainless+Teflon®  
INOX+Téflon®



| Hoja<br>Blade<br>Lame<br>mm |   | Nº Art. | €     |
|-----------------------------|---|---------|-------|
| 26                          | 1 | 37423   | 10,48 |

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



- 1- Cuchilla INOX + Teflon®: Menor adherencia entre tubo y cuchilla
- 2- Zona de apoyo mejorada: Tubo mejor asentado, corte más preciso
- 3- Cambio cuchilla instantaneo: 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 Art. | €     |
|------|------------|------------------------------|---------|-------|
| 42   | 42         | 1"5/8                        | 36635   | 48,23 |

Ref. **8321**

INOX+Teflon®  
Stainless+Teflon®  
INOX+Téflon®



| Hoja<br>Blade<br>Lame<br>mm |   | Nº Art. | €     |
|-----------------------------|---|---------|-------|
| 42                          | 1 | 37424   | 19,44 |

## CONSTRUCCIÓN

Construction

Construction

### HERRAMIENTAS SDS PLUS

SDS plus Tools

Outils SDS plus

126

### HERRAMIENTAS SDS MAX

SDS max Tools

Outils SDS max

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### ADAPTADOR iCONNECT

iConnect Adaptor

Adaptateur iConnect

137

### CINCELES

Chisels

Burins

139

### BROCAS MANGO CILINDRICO

Straight Shank Drill Bits

Forets Queue Cylindrique

142

### CORONAS

Hole Saws

Trépan

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### DISCOS DIAMANTE CONSTRUCCION

CONSTRUCTION Diamond Cutting Blades

Disques Diamant CONSTRUCTION

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# HERRAMIENTAS SDS PLUS

## SDS plus Tools

## Outils SDS plus

Ref. **1891**

### BROCA-MARTILLO SDS PLUS 4 PUNTAS

4-Cutter SDS plus Rotary Hammer Drill Bit

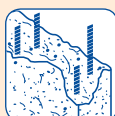
Foret Percussion SDS plus 4 Pointes

# Zentro4



Zentro  
4  
≤14mm

SDS  
plus



Hormigón Reforzado  
Reinforced Concrete  
Béton Armé

Hormigón/ Concrete/ Béton

Hormigón Bloque  
Concrete Block  
Parpaing



Punta MD de una pieza + filo reforzado patentado  
Apto para hormigón reforzado

One-piece, solid carbide tip + patented reinforced chamfer

Suitable in reinforced steel

Pointe en carbure monoblock + filet renforcé patenté

Apte pour béton armé



Simetría optimizada 4x90° => Funcionamiento uniforme de los 4 filos de corte MD

Optimized 4x90° symmetry => All four carbide cutting edges function evenly

Symétrie optimisée 4x90° => Les quatre filets de coupe de carbure fonctionnent de manière uniforme



Soportes laterales de mayor área de sujeción = Resistencia a las fuerzas de torsión

Lateral supports of maximum interface area = Torsional forces resistant

Support latéral, meilleure surface d'insertion = Résistance aux forces de torsion

| Ø<br>mm | L<br>mm | I<br>mm |   | Nº Art. | €     |
|---------|---------|---------|---|---------|-------|
| 5,00    | 110     | 50      | 1 | 32043   | 5,28  |
| 5,00    | 160     | 100     | 1 | 32044   | 5,90  |
| 5,00    | 210     | 150     | 1 | 55961   | 8,66  |
| 5,50    | 110     | 50      | 1 | 32041   | 7,02  |
| 5,50    | 160     | 100     | 1 | 32042   | 7,33  |
| 6,00    | 110     | 50      | 1 | 32045   | 5,17  |
| 6,00    | 160     | 100     | 1 | 32046   | 5,67  |
| 6,00    | 210     | 150     | 1 | 32047   | 7,63  |
| 6,00    | 260     | 200     | 1 | 32048   | 9,15  |
| 6,00    | 310     | 250     | 1 | 32049   | 13,41 |
| 6,50    | 160     | 100     | 1 | 32050   | 7,35  |
| 6,50    | 210     | 150     | 1 | 32074   | 9,95  |
| 6,50    | 260     | 200     | 1 | 32072   | 13,27 |
| 6,50    | 310     | 250     | 1 | 32073   | 16,14 |
| 7,00    | 110     | 50      | 1 | 32052   | 6,97  |
| 7,00    | 160     | 100     | 1 | 32053   | 7,39  |
| 8,00    | 110     | 50      | 1 | 32054   | 6,79  |
| 8,00    | 160     | 100     | 1 | 32055   | 6,79  |
| 8,00    | 210     | 150     | 1 | 32056   | 8,51  |
| 8,00    | 260     | 200     | 1 | 32057   | 9,34  |
| 8,00    | 310     | 250     | 1 | 36686   | 11,92 |
| 8,00    | 460     | 400     | 1 | 36687   | 19,72 |

| Ø<br>mm | L<br>mm | I<br>mm |   | Nº Art. | €     |
|---------|---------|---------|---|---------|-------|
| 10,00   | 110     | 50      | 1 | 32058   | 7,71  |
| 10,00   | 160     | 100     | 1 | 32059   | 8,24  |
| 10,00   | 210     | 150     | 1 | 32060   | 9,84  |
| 10,00   | 260     | 200     | 1 | 32061   | 12,67 |
| 10,00   | 310     | 250     | 1 | 32062   | 16,10 |
| 10,00   | 450     | 400     | 1 | 32063   | 22,09 |
| 10,00   | 600     | 550     | 1 | 36688   | 28,15 |
| 10,00   | 1000    | 950     | 1 | 36689   | 66,06 |
| 12,00   | 160     | 100     | 1 | 32064   | 10,23 |
| 12,00   | 210     | 150     | 1 | 32065   | 12,21 |
| 12,00   | 260     | 200     | 1 | 32066   | 14,80 |
| 12,00   | 310     | 250     | 1 | 32067   | 19,23 |
| 12,00   | 450     | 400     | 1 | 32068   | 24,04 |
| 12,00   | 600     | 550     | 1 | 36690   | 28,91 |
| 12,00   | 1000    | 950     | 1 | 36697   | 66,39 |
| 14,00   | 160     | 100     | 1 | 32069   | 11,83 |
| 14,00   | 210     | 150     | 1 | 32070   | 15,88 |
| 14,00   | 310     | 250     | 1 | 36691   | 22,76 |
| 14,00   | 450     | 400     | 1 | 36692   | 28,51 |
| 14,00   | 600     | 550     | 1 | 36693   | 39,82 |
| 14,00   | 1000    | 950     | 1 | 36694   | 89,07 |
| 16,00   | 160     | 100     | 1 | 36695   | 22,63 |

| Ø<br>mm | L<br>mm | I<br>mm |   | Nº Art. | €      |
|---------|---------|---------|---|---------|--------|
| 16,00   | 210     | 150     | 1 | 36696   | 25,45  |
| 16,00   | 260     | 200     | 1 | 36863   | 29,43  |
| 16,00   | 310     | 250     | 1 | 36699   | 30,75  |
| 16,00   | 450     | 400     | 1 | 37455   | 38,53  |
| 16,00   | 600     | 550     | 1 | 22113   | 51,99  |
| 16,00   | 1000    | 950     | 1 | 36698   | 105,58 |
| 18,00   | 250     | 200     | 1 | 16919   | 39,42  |
| 18,00   | 450     | 400     | 1 | 16920   | 46,31  |
| 20,00   | 250     | 200     | 1 | 16921   | 44,51  |
| 20,00   | 450     | 400     | 1 | 16922   | 53,09  |
| 22,00   | 250     | 200     | 1 | 39687   | 53,70  |
| 22,00   | 450     | 400     | 1 | 16925   | 63,92  |
| 24,00   | 250     | 200     | 1 | 39688   | 60,29  |
| 24,00   | 450     | 400     | 1 | 16927   | 67,67  |
| 25,00   | 250     | 200     | 1 | 39689   | 61,92  |
| 25,00   | 450     | 400     | 1 | 16928   | 68,62  |
| 28,00   | 250     | 200     | 1 | 11523   | 71,56  |
| 28,00   | 450     | 400     | 1 | 11524   | 78,87  |
| 30,00   | 250     | 200     | 1 | 39690   | 91,52  |
| 30,00   | 450     | 400     | 1 | 11525   | 99,87  |
| 32,00   | 450     | 400     | 1 | 11526   | 111,50 |



Ref. **1869**

## BROCA-MARTILLO SDS PLUS 4 PUNTAS

4-Cutter SDS plus Rotary Hammer Drill Bit

Foret Percussion SDS plus 4 Pointes

no  
ve  
dad  
new

| Ø<br>mm | L<br>mm | I<br>mm |    | Nº Art. | €     |
|---------|---------|---------|----|---------|-------|
| 5,0     | 110     | 50      | 10 | 56503   | 4,75  |
| 5,0     | 160     | 100     | 10 | 56506   | 5,31  |
| 6,0     | 110     | 50      | 10 | 56507   | 4,65  |
| 6,0     | 160     | 100     | 10 | 56509   | 5,10  |
| 6,0     | 210     | 150     | 10 | 56510   | 6,87  |
| 8,0     | 110     | 50      | 10 | 56967   | 6,11  |
| 8,0     | 160     | 100     | 10 | 56971   | 6,11  |
| 8,0     | 210     | 150     | 10 | 56972   | 7,66  |
| 10,0    | 110     | 50      | 10 | 56973   | 6,94  |
| 10,0    | 160     | 100     | 10 | 56974   | 7,42  |
| 10,0    | 210     | 150     | 10 | 56976   | 8,86  |
| 12,0    | 160     | 100     | 10 | 56978   | 9,21  |
| 12,0    | 210     | 150     | 10 | 56979   | 10,99 |



**PRECIO  
UNITARIO  
MEJORADO**  
Improved  
Unitary Price  
Prix unitaire  
amélioré

Ref. **1489**


| Cont. Ø                                    | Nº Art. | €     |
|--------------------------------------------|---------|-------|
| 7 Pcs: 5-6-8 x 110<br>+ 6-8-10-12 x 160 mm | 39851   | 48,17 |

Display  
**61**

## BROCA-MARTILLO SDS PLUS 4 PUNTAS

4-Cutter SDS plus Rotary Hammer Drill Bit

Foret Percussion SDS plus 4 Pointes



|     |            |            |            |            |            |           |            |            |
|-----|------------|------------|------------|------------|------------|-----------|------------|------------|
| Ø   | 14<br>L210 | 6<br>L260  | 8<br>L260  | 10<br>L260 | 12<br>L260 | 6<br>L310 | 10<br>L310 | 12<br>L310 |
| Pcs | 2          | 2          | 2          | 2          | 2          | 2         | 2          | 2          |
| Ø   | 8<br>L160  | 10<br>L160 | 12<br>L160 | 14<br>L160 | 6<br>L210  | 8<br>L210 | 10<br>L210 | 12<br>L210 |
| Pcs | 2          | 2          | 2          | 2          | 2          | 2         | 2          | 2          |
| Ø   | 5<br>L110  | 6<br>L110  | 7<br>L110  | 8<br>L110  | 10<br>L110 | 5<br>L160 | 6<br>L160  | 7<br>L160  |
| Pcs | 2          | 2          | 2          | 2          | 2          | 2         | 2          | 2          |

Ref. 4995 - Nº Art. 29487: **473,48 €**

Display  
**31**


40 cm

|     |            |            |            |            |            |            |            |            |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|
| 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: **452,35 €**

Display  
**32**


60 cm

|     |            |            |            |            |            |            |            |            |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|
| 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: **516,88 €**



Ref. **1890****BROCA-MARTILLO SDS PLUS**

SDS plus Rotary Hammer Drill Bit

Foret Percussion SDS plus

SDS  
plusCanal  
KVS  
Flute

Hormigón/ Concrete/ Béton

Hormigón Bloque  
Concrete Block  
Parpaing

| D<br>mm | L<br>mm | I<br>mm |   | Nº Art. | €     | D<br>mm | L<br>mm | I<br>mm |   | Nº Art. | €     |
|---------|---------|---------|---|---------|-------|---------|---------|---------|---|---------|-------|
| 4,0     | 110     | 50      | 1 | 30245   | 4,35  | 13,0    | 310     | 250     | 1 | 30278   | 13,06 |
| 4,0     | 160     | 100     | 1 | 43405   | 5,30  | 14,0    | 160     | 100     | 1 | 30280   | 7,66  |
| 5,0     | 110     | 50      | 1 | 30246   | 3,16  | 14,0    | 210     | 150     | 1 | 30281   | 11,18 |
| 5,0     | 160     | 100     | 1 | 30247   | 4,11  | 14,0    | 260     | 200     | 1 | 42772   | 13,41 |
| 5,0     | 210     | 150     | 1 | 42770   | 6,56  | 14,0    | 310     | 250     | 1 | 30283   | 14,15 |
| 5,5     | 110     | 50      | 1 | 23976   | 3,67  | 14,0    | 450     | 400     | 1 | 30284   | 18,60 |
| 5,5     | 160     | 100     | 1 | 23977   | 4,61  | 14,0    | 600     | 550     | 1 | 30285   | 27,61 |
| 6,0     | 110     | 50      | 1 | 30248   | 3,24  | 14,0    | 1000    | 950     | 1 | 30279   | 65,49 |
| 6,0     | 160     | 100     | 1 | 18538   | 3,74  | 15,0    | 160     | 100     | 1 | 30286   | 10,64 |
| 6,0     | 210     | 150     | 1 | 30249   | 6,18  | 15,0    | 260     | 200     | 1 | 42773   | 13,88 |
| 6,0     | 260     | 200     | 1 | 30251   | 7,95  | 16,0    | 160     | 100     | 1 | 30291   | 10,64 |
| 6,5     | 110     | 50      | 1 | 23978   | 3,71  | 16,0    | 210     | 150     | 1 | 30292   | 12,97 |
| 6,5     | 160     | 100     | 1 | 23979   | 4,36  | 16,0    | 260     | 200     | 1 | 42774   | 13,99 |
| 7,0     | 110     | 50      | 1 | 30252   | 4,69  | 16,0    | 310     | 250     | 1 | 30294   | 14,96 |
| 7,0     | 160     | 100     | 1 | 30253   | 5,03  | 16,0    | 450     | 400     | 1 | 30295   | 22,11 |
| 8,0     | 110     | 50      | 1 | 30254   | 4,10  | 16,0    | 600     | 550     | 1 | 30296   | 29,71 |
| 8,0     | 160     | 100     | 1 | 18540   | 3,91  | 16,0    | 800     | 750     | 1 | 30298   | 48,65 |
| 8,0     | 210     | 150     | 1 | 30255   | 5,59  | 16,0    | 1000    | 950     | 1 | 30290   | 74,36 |
| 8,0     | 260     | 200     | 1 | 30256   | 9,91  | 18,0    | 200     | 150     | 1 | 30300   | 16,66 |
| 8,0     | 460     | 400     | 1 | 30257   | 16,62 | 18,0    | 300     | 250     | 1 | 30413   | 22,14 |
| 9,0     | 160     | 100     | 1 | 11518   | 6,24  | 18,0    | 450     | 400     | 1 | 30303   | 25,25 |
| 9,0     | 210     | 150     | 1 | 11519   | 6,80  | 18,0    | 1000    | 950     | 1 | 30299   | 84,02 |
| 10,0    | 110     | 50      | 1 | 30261   | 4,68  | 20,0    | 200     | 150     | 1 | 30306   | 23,16 |
| 10,0    | 160     | 100     | 1 | 30262   | 5,24  | 20,0    | 300     | 250     | 1 | 30309   | 25,99 |
| 10,0    | 210     | 150     | 1 | 18541   | 6,30  | 20,0    | 450     | 400     | 1 | 30311   | 32,78 |
| 10,0    | 260     | 200     | 1 | 30263   | 9,27  | 20,0    | 600     | 550     | 1 | 30312   | 48,65 |
| 10,0    | 310     | 250     | 1 | 30264   | 10,74 | 20,0    | 1000    | 950     | 1 | 30305   | 91,24 |
| 10,0    | 450     | 400     | 1 | 30266   | 17,39 | 22,0    | 250     | 200     | 1 | 30314   | 29,75 |
| 10,0    | 600     | 550     | 1 | 30267   | 24,36 | 22,0    | 450     | 400     | 1 | 30317   | 41,42 |
| 11,0    | 160     | 100     | 1 | 11520   | 6,88  | 22,0    | 600     | 550     | 1 | 23980   | 49,59 |
| 11,0    | 210     | 150     | 1 | 25600   | 6,96  | 22,0    | 1000    | 950     | 1 | 23986   | 78,28 |
| 11,0    | 260     | 200     | 1 | 11521   | 11,84 | 24,0    | 250     | 200     | 1 | 30319   | 34,71 |
| 12,0    | 160     | 100     | 1 | 30270   | 5,57  | 24,0    | 450     | 400     | 1 | 30322   | 45,04 |
| 12,0    | 210     | 150     | 1 | 30271   | 7,06  | 25,0    | 250     | 200     | 1 | 30324   | 37,58 |
| 12,0    | 260     | 200     | 1 | 30273   | 10,02 | 25,0    | 450     | 400     | 1 | 30327   | 48,16 |
| 12,0    | 310     | 250     | 1 | 42771   | 13,51 | 25,0    | 1000    | 950     | 1 | 23987   | 86,46 |
| 12,0    | 450     | 400     | 1 | 30414   | 15,91 | 26,0    | 250     | 200     | 1 | 11522   | 47,08 |
| 12,0    | 600     | 550     | 1 | 30275   | 25,21 | 26,0    | 450     | 400     | 1 | 30330   | 53,16 |
| 12,0    | 1000    | 950     | 1 | 30269   | 60,24 |         |         |         |   |         |       |
| 13,0    | 160     | 100     | 1 | 30276   | 6,65  |         |         |         |   |         |       |

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 Art. | €           |
|---------|---------|---------|-----------------------------------------------------------------------------------|---------|-------------|
| 5       | 110     | 50      | 10                                                                                | 18706   | <b>2,85</b> |
| 5       | 160     | 100     | 10                                                                                | 18707   | <b>3,70</b> |
| 6       | 110     | 50      | 10                                                                                | 18710   | <b>2,92</b> |
| 6       | 160     | 100     | 10                                                                                | 18712   | <b>3,37</b> |
| 6       | 210     | 150     | 10                                                                                | 18714   | <b>5,56</b> |
| 8       | 110     | 50      | 10                                                                                | 18715   | <b>3,69</b> |
| 8       | 160     | 100     | 10                                                                                | 18716   | <b>3,52</b> |
| 8       | 210     | 150     | 10                                                                                | 18717   | <b>5,03</b> |
| 10      | 110     | 50      | 10                                                                                | 18719   | <b>4,21</b> |
| 10      | 160     | 100     | 10                                                                                | 18721   | <b>4,72</b> |
| 10      | 210     | 150     | 10                                                                                | 18722   | <b>5,67</b> |
| 12      | 160     | 100     | 10                                                                                | 18723   | <b>5,02</b> |
| 12      | 210     | 150     | 10                                                                                | 18724   | <b>6,35</b> |

**PRECIO  
UNITARIO  
MEJORADO**  
Improved  
Unitary Price  
Prix unitaire  
amélioré



Ref. **1494**



| Cont. Ø                                     | Nº Art. | €            |
|---------------------------------------------|---------|--------------|
| 4 Pcs: 5x110 - 6x110 -<br>8x160 - 10x160 mm | 11528   | <b>19,70</b> |

Ref. **1497**



| Cont. Ø                                    | Nº Art. | €            |
|--------------------------------------------|---------|--------------|
| 7 Pcs: 5-6-8 x 110 +<br>6-8-10-12 x 160 mm | 11529   | <b>38,10</b> |



## Display 01

### BROCA-MARTILLO SDS PLUS 1

SDS plus Rotary Hammer Drill Bit 1

Foret Percussion SDS plus 1



|     |            |            |            |            |            |            |            |            |           |           |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|-----------|-----------|
| Ø   | 18<br>L300 | 20<br>L300 | 22<br>L250 | 24<br>L250 | 25<br>L250 | 8<br>L460  | 10<br>L450 | 12<br>L450 |           |           |
| Pcs | 1          | 1          | 1          | 1          | 1          | 2          | 2          | 2          |           |           |
| Ø   | 6<br>L210  | 8<br>L210  | 10<br>L210 | 12<br>L210 | 14<br>L210 | 16<br>L210 | 18<br>L200 | 20<br>L200 |           |           |
| Pcs | 3          | 3          | 3          | 3          | 3          | 1          | 1          | 1          |           |           |
| Ø   | 4<br>L110  | 5<br>L110  | 6<br>L110  | 7<br>L110  | 8<br>L110  | 10<br>L110 | 5<br>L160  | 6<br>L160  | 7<br>L160 | 8<br>L160 |
| Pcs | 5          | 5          | 5          | 3          | 5          | 3          | 5          | 5          | 3         | 3         |

Ref. 4995 - N° Art. 22182: **580,14 €**

## Display 02

### BROCA-MARTILLO SDS PLUS 2

SDS plus Rotary Hammer Drill Bit 2

Foret Percussion SDS plus 2



|     |            |            |            |            |            |            |            |            |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|
| Ø   | 14<br>L450 | 16<br>L450 | 18<br>L450 | 20<br>L450 | 22<br>L450 | 24<br>L450 | 25<br>L450 | 26<br>L450 |
| Pcs | 3          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
| Ø   | 6<br>L260  | 8<br>L260  | 10<br>L260 | 12<br>L260 | 10<br>L310 | 13<br>L310 | 14<br>L310 | 16<br>L310 |
| Pcs | 3          | 3          | 3          | 3          | 3          | 2          | 2          | 2          |
| Ø   | 9<br>L160  | 10<br>L160 | 11<br>L160 | 12<br>L160 | 13<br>L160 | 14<br>L160 | 15<br>L160 | 16<br>L160 |
| Pcs | 2          | 2          | 2          | 3          | 3          | 3          | 2          | 2          |

Ref. 4995 - N° Art. 22183: **696,26 €**

## Display 45

### BROCA-MARTILLO SDS PLUS BÁSICO

Basic SDS plus Rotary Hammer Drill Bit

Foret Percussion SDS plus Essentiel

no  
ve  
dad!  
new



|     |            |            |            |           |            |            |            |            |            |            |
|-----|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|
| Ø   | 12<br>L260 | 14<br>L310 | 16<br>L310 | 8<br>L460 | 10<br>L450 | 12<br>L450 | 14<br>L450 | 16<br>L450 |            |            |
| Pcs | 3          | 2          | 2          | 1         | 1          | 2          | 1          | 1          |            |            |
| Ø   | 14<br>L160 | 16<br>L160 | 6<br>L210  | 8<br>L210 | 10<br>L210 | 12<br>L210 | 14<br>L210 | 10<br>L260 |            |            |
| Pcs | 3          | 2          | 5          | 3         | 3          | 3          | 3          | 3          |            |            |
| Ø   | 4<br>L110  | 5<br>L110  | 6<br>L110  | 8<br>L110 | 10<br>L110 | 5<br>L160  | 6<br>L160  | 8<br>L160  | 10<br>L160 | 12<br>L160 |
| Pcs | 5          | 5          | 5          | 5         | 5          | 5          | 5          | 5          | 4          | 3          |

Ref. 4995 - N° Art. 55614: **582,30 €**

## Display 25



| Ø   | 4    | 5    | 6    | 7    | 8    | 10   | 5    | 6    | 7    | 8    |
|-----|------|------|------|------|------|------|------|------|------|------|
|     | L110 | L110 | L110 | L110 | L110 | L110 | L160 | L160 | L160 | L160 |
| Pcs | 5    | 5    | 5    | 3    | 5    | 3    | 5    | 5    | 3    | 3    |

Ref. 4995 - Nº Art. 22278: **168,42 €**

## Display 26



| Ø   | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   |
|-----|------|------|------|------|------|------|------|------|
|     | L160 | L160 | L160 | L160 | L160 | L160 | L160 | L160 |
| Pcs | 2    | 2    | 2    | 3    | 3    | 3    | 2    | 2    |

Ref. 4995 - Nº Art. 22604: **138,96 €**

## Display 27



| Ø   | 6    | 8    | 10   | 12   | 14   | 16   | 18   | 20   |
|-----|------|------|------|------|------|------|------|------|
|     | L210 | L210 | L210 | L210 | L210 | L210 | L200 | L200 |
| Pcs | 3    | 3    | 3    | 3    | 3    | 1    | 1    | 1    |

Ref. 4995 - Nº Art. 22605: **161,71 €**

## Display 28



| Ø   | 6    | 8    | 10   | 12   | 10   | 13   | 14   | 16   |
|-----|------|------|------|------|------|------|------|------|
|     | L260 | L260 | L260 | L260 | L310 | L310 | L310 | L310 |
| Pcs | 3    | 3    | 3    | 3    | 3    | 2    | 2    | 2    |

Ref. 4995 - Nº Art. 22609: **228,02 €**

## Display 29



| Ø   | 18   | 20   | 22   | 24   | 25   | 8    | 10   | 12   |
|-----|------|------|------|------|------|------|------|------|
|     | L300 | L300 | L250 | L250 | L250 | L460 | L450 | L450 |
| Pcs | 1    | 1    | 1    | 1    | 1    | 2    | 2    | 2    |

Ref. 4995 - Nº Art. 22612: **250,02 €**

## Display 30



| Ø   | 14   | 16   | 18   | 20   | 22   | 24   | 25   | 26   |
|-----|------|------|------|------|------|------|------|------|
|     | L450 | L450 | L450 | L450 | L450 | L450 | L450 | L450 |
| Pcs | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |

Ref. 4995 - Nº Art. 22614: **329,28 €**

Ref. **1695**

## CORONA LIGERA PARED PROFESIONAL

Professional Concrete Light Hollow Core Bit  
Trépan Béton Professionnel

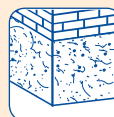


Diente MD  
Carbide Tipped  
Dent Carbure



SDS  
plus

Rosca Interna M-16  
M-16 Internal Thread  
Filetage Interieur M-16



Hormigón Bloque  
Concrete Block  
Parpaing

Ladrillo / Brick / Brique

Hormigón/ Concrete/ Béton



| D<br>mm | L<br>mm | Nº Art. | €     |
|---------|---------|---------|-------|
| 30      | 58      | 13898   | 41,44 |
| 35      | 58      | 13899   | 49,06 |
| 40      | 58      | 13900   | 56,26 |
| 45      | 58      | 13901   | 59,22 |
| 50      | 58      | 13902   | 61,75 |
| 65      | 50      | 13904   | 64,59 |

| D<br>mm | L<br>mm | Nº Art. | €     |
|---------|---------|---------|-------|
| 68      | 50      | 19012   | 67,85 |
| 80      | 50      | 19014   | 67,85 |
| 82      | 50      | 19032   | 84,50 |
| 90      | 50      | 25207   | 86,49 |
| 100     | 50      | 25208   | 99,87 |

Ref. **1696**

**Broca Centrar**  
Center Drill  
Foret à Centrer



| Broca<br>Drill Foret<br>Mod. | D<br>mm | L<br>mm | Nº Art. | €    |
|------------------------------|---------|---------|---------|------|
| 1                            | 8       | 120     | 18857   | 8,04 |

**Husillo SDS plus**  
SDS plus Spindle  
Arbre SDS plus



| SDS plus<br>Mod. | L<br>mm | Nº Art. | €     |
|------------------|---------|---------|-------|
| 3                | 110     | 18858   | 22,84 |
| 4                | 220     | 19021   | 30,38 |
| 5                | 350     | 19023   | 43,18 |

**Husillo Hex**  
Hex Spindle  
Arbre Hex



| HEX<br>Mod. | L<br>mm | Nº Art. | €     |
|-------------|---------|---------|-------|
| 6           | 100     | 19018   | 20,11 |
| 7           | 220     | 19026   | 26,37 |
| 8           | 370     | 19030   | 35,31 |

**Display  
05**

## CORONA LIGERA PARED PROFESIONAL

Professional Concrete Light Hollow Core Bit  
Trépan Béton Professionnel



|     | SDS plus<br>L110 | SDS plus<br>L110 | SDS plus<br>L220 | SDS plus<br>L350     |
|-----|------------------|------------------|------------------|----------------------|
| Pcs | 1                | 1                | 2                | 1                    |
|     | 40               | 50               | 50               | Broca<br>Drill Foret |
| Pcs | 1                | 1                | 1                | 2                    |
|     | 65               | 68               | 80               | 82                   |
| Pcs | 1                | 1                | 1                | 1                    |

Ref. 4995 - Nº Art. 22418: **638,29 €**





# HERRAMIENTAS SDS MAX

SDS max Tools

Outils SDS max

Ref. **1892**

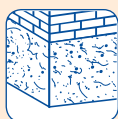
## BROCA-MARTILLO SDS MAX 4 PUNTAS

4-Cutter SDS max Rotary Hammer Drill Bit

Foret Percussion SDS max 4 Pointes



SDS  
max



Hormigón/ Concrete/ Béton

Hormigón Bloque  
Concrete Block  
Parpaing



2 puntas / 2-Cutter / 2-Taillants:

| D<br>mm | L<br>mm | I<br>mm | Nº Art. | €     |
|---------|---------|---------|---------|-------|
| 12      | 340     | 200     | 30332   | 42,68 |
| 12      | 540     | 400     | 30333   | 50,04 |
| 12      | 690     | 550     | 30334   | 76,03 |
| 14      | 340     | 200     | 30335   | 46,17 |
| 14      | 540     | 400     | 30336   | 52,68 |
| 15      | 340     | 200     | 30337   | 49,87 |
| 15      | 540     | 400     | 30338   | 56,02 |

4 puntas / 4-Cutter / 4-Taillants:

| D<br>mm | L<br>mm | I<br>mm | Nº Art. | €      |
|---------|---------|---------|---------|--------|
| 16      | 340     | 200     | 30339   | 54,61  |
| 16      | 540     | 400     | 30340   | 62,51  |
| 18      | 340     | 200     | 30341   | 56,02  |
| 18      | 540     | 400     | 30342   | 68,49  |
| 20      | 320     | 200     | 30343   | 56,90  |
| 20      | 520     | 400     | 30344   | 73,74  |
| 20      | 920     | 800     | 30345   | 105,18 |
| 22      | 320     | 200     | 30346   | 65,15  |
| 22      | 520     | 400     | 30347   | 77,43  |
| 22      | 920     | 800     | 30348   | 114,14 |
| 24      | 320     | 200     | 30349   | 67,43  |
| 24      | 520     | 400     | 30350   | 82,88  |
| 25      | 320     | 200     | 30351   | 69,37  |
| 25      | 520     | 400     | 30352   | 84,29  |
| 25      | 920     | 800     | 30353   | 125,20 |
| 26      | 520     | 400     | 30354   | 85,87  |
| 28      | 370     | 250     | 30355   | 83,59  |
| 28      | 570     | 450     | 30356   | 93,25  |

| D<br>mm | L<br>mm | I<br>mm | Nº Art. | €      |
|---------|---------|---------|---------|--------|
| 28      | 670     | 550     | 30357   | 115,18 |
| 30      | 370     | 250     | 30358   | 91,13  |
| 30      | 570     | 450     | 30359   | 97,10  |
| 32      | 370     | 250     | 30360   | 94,82  |
| 32      | 570     | 450     | 30361   | 118,17 |
| 32      | 920     | 800     | 30362   | 162,77 |
| 35      | 370     | 250     | 30363   | 105,35 |
| 35      | 570     | 450     | 30364   | 126,26 |
| 35      | 670     | 550     | 30365   | 149,08 |
| 38      | 370     | 250     | 30366   | 122,39 |
| 38      | 570     | 450     | 30367   | 129,95 |
| 40      | 370     | 250     | 30368   | 133,45 |
| 40      | 570     | 450     | 30369   | 152,77 |
| 40      | 920     | 800     | 30370   | 208,96 |
| 45      | 570     | 450     | 30371   | 219,49 |
| 45      | 920     | 800     | 23981   | 302,15 |
| 50      | 570     | 450     | 52952   | 243,54 |
| 52      | 570     | 450     | 52594   | 296,15 |

## Display 03

### BROCA-MARTILLO SDS MAX 4 PUNTAS

4-Cutter SDS max Rotary Hammer Drill Bit

Foret Percussion SDS max 4 Pointes



| Ø   | 16<br>L540 | 18<br>L540 | 20<br>L520 | 22<br>L520 | 25<br>L520 | 28<br>L570 | 30<br>L570 | 32<br>L570 | 35<br>L570 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Pcs | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |

| Ø   | 12<br>L340 | 14<br>L340 | 16<br>L340 | 18<br>L340 | 20<br>L320 | 22<br>L320 | 25<br>L320 | 28<br>L370 | 30<br>L370 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Pcs | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |

Ref. 4995 - N° Art. 22315: **1366,86 €**

## Display 33

## Display 34



49 cm



68 cm

| Ø   | 12<br>L340 | 14<br>L340 | 16<br>L340 | 18<br>L340 | 20<br>L320 | 22<br>L320 | 25<br>L320 | 28<br>L370 | 30<br>L370 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Pcs | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |

Ref. 4995 - N° Art. 22618: **565,62 €**

| Ø   | 16<br>L540 | 18<br>L540 | 20<br>L520 | 22<br>L520 | 25<br>L520 | 28<br>L570 | 30<br>L570 | 32<br>L570 | 35<br>L570 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Pcs | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |

Ref. 4995 - N° Art. 22619: **801,24 €**

Ref. **1894**

## BROCA-CORONA SDS MAX

SDS max Core Cutter  
Foret Trépan SDS max



SDS  
max



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 Autocentreur Exact
- Dents Carbone => Pénétration plus rapide
- Gran Volume des Goujures => Meilleur évacuation copeaux



- Resistente al calentamiento.
- Apto para trabajo intensivo
- Heat-resistant.
- Intensive work.
- Resistance au rechauffement
- Idéal pour travaux intensifs.

| D<br>mm | L<br>mm | I<br>mm | Nº Art. | €      |
|---------|---------|---------|---------|--------|
| 45      | 550     | 450     | 16864   | 284,66 |
| 45      | 990     | 890     | 16865   | 343,93 |
| 55      | 550     | 450     | 16868   | 328,93 |
| 55      | 990     | 890     | 16869   | 377,07 |
| 65      | 550     | 450     | 16870   | 354,64 |
| 65      | 990     | 890     | 16871   | 408,09 |
| 80      | 550     | 450     | 16873   | 395,12 |
| 80      | 990     | 890     | 16874   | 509,44 |

Ref. **1697**

## CORONA PERFORADORA TALADRO PERCUTOR

Tapered Hollow Hammer Core Bit

Trépan pour Perçuses Percussion Lourds



Diente MD  
Carbide Tipped  
Dent Carbure



SDS  
max

Conicidad 1:8  
1:8 Tapered  
Conicité 1:8

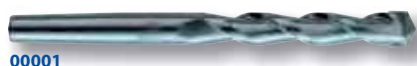
Hormigón / Concrete / Béton



| D<br>mm | L<br>mm | Nº Art. | €      |
|---------|---------|---------|--------|
| 40      | 100     | 19035   | 99,29  |
| 50      | 100     | 19041   | 120,15 |
| 65      | 100     | 19045   | 154,72 |
| 80      | 100     | 19047   | 177,56 |
| 90      | 100     | 19048   | 204,57 |
| 100     | 100     | 19050   | 222,02 |
| 125     | 100     | 19051   | 290,30 |

Ref. **1698**

Broca Centrar  
Center Drill  
Foret à Centrer



| Broca<br>Drill Foret<br>Mod. | D<br>mm | L<br>mm | Nº Art. | €    |
|------------------------------|---------|---------|---------|------|
| 1                            | 11      | 120     | 19054   | 8,45 |

Cuña Expulsora  
Drill Drift  
Chasse



| Llave<br>Key Clef<br>Mod. | Nº Art. | €     |
|---------------------------|---------|-------|
| 2                         | 19056   | 10,19 |

Husillo SDS max  
SDS max Spindle  
Arbre SDS max



| SDS max<br>Mod. | L<br>mm | Nº Art. | €     |
|-----------------|---------|---------|-------|
| 3               | 180     | 19057   | 45,95 |
| 4               | 450     | 19058   | 81,65 |

Display  
**06**

## CORONA PERFORADORA TALADRO PERCUTOR

Tapered Hollow Hammer Core Bit

Trépan pour Perçuses Percussion Lourds



| Ø   | Llave<br>Key / Clef | Broca<br>Drill / Foret | Broca<br>Drill / 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: **827,14 €**



# ADAPTADOR iCONNECT

## iConnect Adaptor

## Adaptateur iConnect

no  
ve  
dad  
new

### 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

### Use

Concrete, masonry and natural stone

### 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.

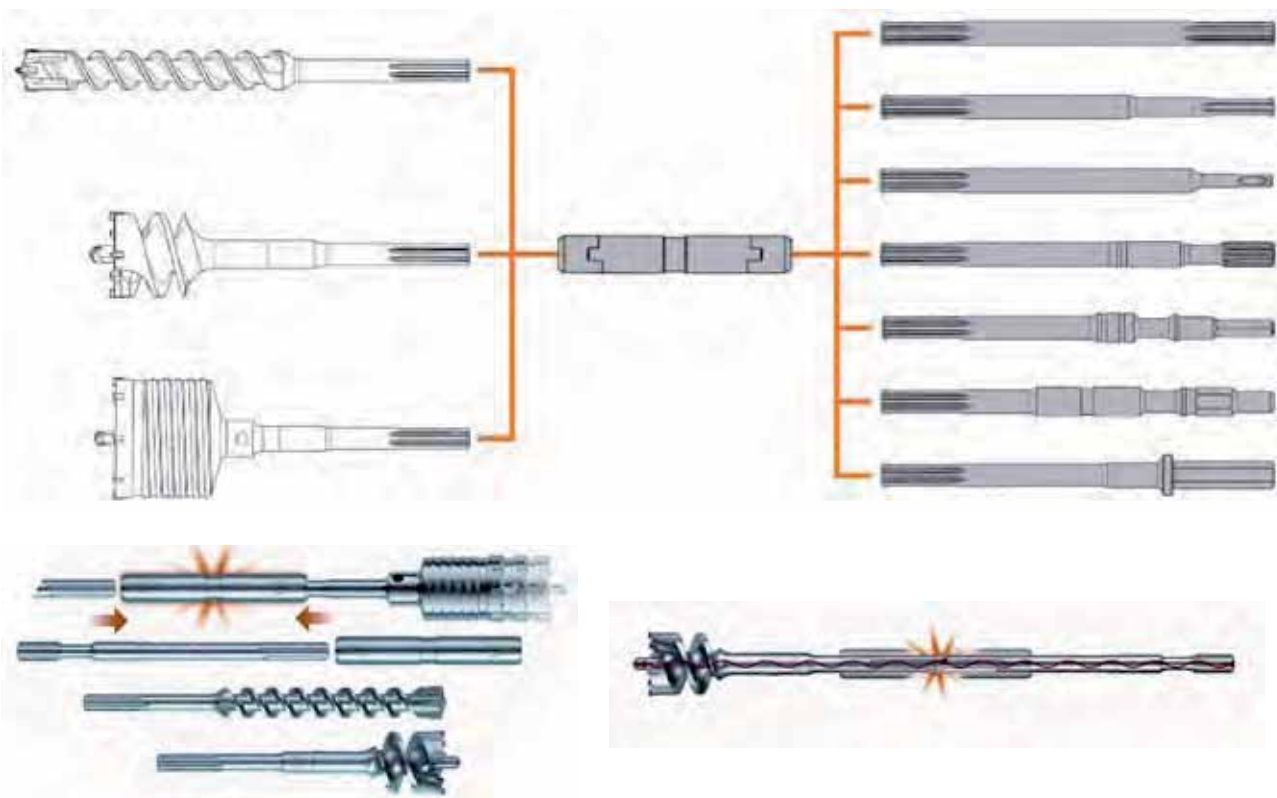
Ces rallonges permettent aussi une combiner un perçage SDS PLUS avec un foret SDS Max.

### 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 professionnel.

### Emploi

Béton Armé, Béton et Pierre.

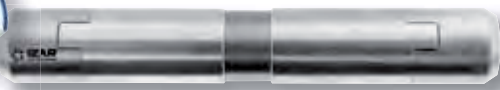




Ref. **1875**

## 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 | Nº Art. | €      |
|-------------------|---------|---------|--------|
| 1                 | 320     | 56810   | 206,72 |



| Extensión<br>MAX-MAX<br>Mod. | L<br>mm | Nº Art. | €     |
|------------------------------|---------|---------|-------|
| 0320-MAX                     | 320     | 56811   | 34,87 |
| 0750-MAX                     | 750     | 56812   | 43,71 |
| 1100-MAX                     | 1100    | 56813   | 58,98 |



| Extensión<br>MAX-PLUS | L<br>mm | Nº Art. | €     |
|-----------------------|---------|---------|-------|
| 0320-PLUS             | 750     | 56814   | 38,33 |
| 0750-PLUS             | 1100    | 56815   | 48,80 |



| Grasa<br>Grease / Graisse<br>Mod. | Nº Art. | €    |
|-----------------------------------|---------|------|
| 2                                 | 57504   | 5,09 |



# CINCELES

## Chisels

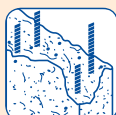
## Burins

Ref. **1870**

### CINCEL SDS PLUS

SDS plus Chisel  
Burin SDS plus

no  
ve  
dad  
new



SDS  
plus

Hormigón/ Concrete/ Béton

Hormigón Reforzado  
Reinforced Concrete  
Béton Armé



Puntero / Pointed / Ciseau

| Mod.      | Tipo<br>Type / Type         | L<br>mm | Nº<br>Art. | €    |
|-----------|-----------------------------|---------|------------|------|
| 00001-250 | Puntero<br>Pointed / Ciseau | 250     | 30372      | 7,79 |



Plano / Flat / Plate

| Mod.      | Tipo<br>Type / Type   | L<br>mm | I<br>mm | Nº<br>Art. | €    |
|-----------|-----------------------|---------|---------|------------|------|
| 00002-250 | Plano<br>Flat / Plate | 250     | 20      | 30373      | 7,79 |



Ancho / Wide / Large

| Mod.         | Tipo<br>Type / Type   | L<br>mm | I<br>mm | Nº<br>Art. | €     |
|--------------|-----------------------|---------|---------|------------|-------|
| 00003-200040 | Ancho<br>Wide / Large | 200     | 40      | 30374      | 13,33 |



Hueco / Hollow / Gouge

| Mod.      | Tipo<br>Type / Type     | L<br>mm | Nº<br>Art. | €     |
|-----------|-------------------------|---------|------------|-------|
| 00004-240 | Hueco<br>Hollow / Gouge | 240     | 30375      | 16,08 |



Alas / Wing-Canal / Ailes

| Mod.      | Tipo<br>Type / Type        | L<br>mm | Nº<br>Art. | €     |
|-----------|----------------------------|---------|------------|-------|
| 00005-250 | Alas<br>Wing-Canal / Ailes | 250     | 54983      | 38,88 |



Azulejo / Tile / Carreau

| Mod.         | Tipo<br>Type / Type       | L<br>mm | I<br>mm | Nº<br>Art. | €     |
|--------------|---------------------------|---------|---------|------------|-------|
| 00009-200040 | Azulejo<br>Tile / Carreau | 200     | 40      | 54985      | 15,25 |
| 00009-250060 |                           | 250     | 60      | 54986      | 39,13 |



Dentado / Slotting / Denté

| Mod.            | Tipo<br>Type / Type         | Mat. | L<br>mm | I<br>mm | Nº<br>Art. | €      |
|-----------------|-----------------------------|------|---------|---------|------------|--------|
| 00010-250032TCT | Dentado<br>Slotting / Denté | TCT  | 250     | 32      | 54988      | 103,71 |

Ref. **1872****CINCEL SDS MAX**SDS max Chisel  
Burin SDS maxn  
o  
v  
e  
d  
a  
d  
newSDS  
max

Hormigón/Concrete/Béton

Hormigón Reforzado  
Reinforced Concrete  
Béton Armé**Puntero** / Pointed / Ciseau

| Mod.      | Tipo<br>Type / Type                | L<br>mm | I<br>mm | Nº<br>Art. | €            |
|-----------|------------------------------------|---------|---------|------------|--------------|
| 00001-280 | <b>Puntero</b><br>Pointed / Ciseau | 280     |         | 54989      | <b>11,13</b> |
| 00001-400 |                                    | 400     |         | 30376      | <b>13,18</b> |
| 00001-600 |                                    | 600     |         | 23036      | <b>17,78</b> |

**Plano** / Flat / Plate

|           |                              |     |    |       |              |
|-----------|------------------------------|-----|----|-------|--------------|
| 00002-280 | <b>Plano</b><br>Flat / Plate | 280 | 24 | 54990 | <b>11,13</b> |
| 00002-400 |                              | 400 | 24 | 30377 | <b>13,18</b> |
| 00002-600 |                              | 600 | 24 | 23037 | <b>17,78</b> |

**Ancho** / Wide / Large

|              |                              |     |     |       |              |
|--------------|------------------------------|-----|-----|-------|--------------|
| 00003-360050 | <b>Ancho</b><br>Wide / Large | 360 | 50  | 23038 | <b>19,62</b> |
| 00003-300080 |                              | 300 | 80  | 30378 | <b>29,46</b> |
| 00003-350115 |                              | 350 | 115 | 54991 | <b>60,21</b> |

**Hueco** / Hollow / Gouge

| Mod.      | Tipo<br>Type / Type            | L<br>mm | I<br>mm | Nº<br>Art. | €            |
|-----------|--------------------------------|---------|---------|------------|--------------|
| 00004-300 | <b>Hueco</b><br>Hollow / Gouge | 300     | 32      | 30379      | <b>32,71</b> |

**Alas** / Wing-Canal / Ailes

|              |                                    |     |    |       |              |
|--------------|------------------------------------|-----|----|-------|--------------|
| 00005-380035 | <b>Alas</b><br>Wing-Canal<br>Ailes | 380 | 35 | 18186 | <b>72,49</b> |
|--------------|------------------------------------|-----|----|-------|--------------|

**Acanalador** / Canal / Gouge-Brique

|              |                                            |     |    |       |              |
|--------------|--------------------------------------------|-----|----|-------|--------------|
| 00008-300032 | <b>Acanalador</b><br>Canal<br>Gouge-Brique | 300 | 32 | 54993 | <b>36,29</b> |
|--------------|--------------------------------------------|-----|----|-------|--------------|

**Azulejo** / Tile / Carreau

|              |                                  |     |    |       |              |
|--------------|----------------------------------|-----|----|-------|--------------|
| 00009-300050 | <b>Azulejo</b><br>Tile / Carreau | 300 | 50 | 54994 | <b>31,17</b> |
| 00009-300080 |                                  | 300 | 80 | 54996 | <b>32,71</b> |

**Dentado** / Slotting / Denté

| Mod.            | Tipo<br>Type / Type                | Mat. | L<br>mm | I<br>mm | Nº<br>Art. | €            |
|-----------------|------------------------------------|------|---------|---------|------------|--------------|
| 00010-280038TCT | <b>Dentado</b><br>Slotting / Denté | TCT  | 280     | 38      | 54999      | <b>97,08</b> |

**Pala** / Clay-Spade / Pelle

| Mod.         | Tipo<br>Type / Type               | L<br>mm | I<br>mm | Nº<br>Art. | €            |
|--------------|-----------------------------------|---------|---------|------------|--------------|
| 00011-400110 | <b>Pala</b><br>Clay-Spade / Pelle | 400     | 110     | 55000      | <b>79,25</b> |

**Asfalto** / Asphalt / Asphalte

|              |                                      |     |    |       |              |
|--------------|--------------------------------------|-----|----|-------|--------------|
| 00012-400090 | <b>Asfalto</b><br>Asphalt / Asphalte | 400 | 90 | 55003 | <b>76,54</b> |
|--------------|--------------------------------------|-----|----|-------|--------------|

**Abujardar** / Bushing / Bouchardage

|              |                                            |     |    |       |               |
|--------------|--------------------------------------------|-----|----|-------|---------------|
| 00013-240045 | <b>Abujardar</b><br>Bushing<br>Bouchardage | 240 | 45 | 55004 | <b>125,08</b> |
|--------------|--------------------------------------------|-----|----|-------|---------------|

## Display 04

### CINCELES SDS MAX / PLUS

SDS max / plus Chisels

Burins SDS max / plus



#### 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>L310 | Puntero<br>Pointed<br>Ciseau<br>L600 | Plano<br>Flat<br>Plate<br>L600 |
|-----|--------------------------------------|--------------------------------|------------------------------|------------------------------|--------------------------|-------------------------------------|--------------------------------------|--------------------------------|
| Pcs | 2                                    | 2                              | 2                            | 2                            | 2                        | 2                                   | 1                                    | 1                              |

#### 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 | Acanalador<br>Canal<br>Gouge Brique | Acanalador<br>Canal<br>Gouge Brique |
|-----|------------------------------|------------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------------------|-------------------------------------|
| Pcs | 1                            | 1                            | 1                      | 1                      | 1                      | 1                      | 1                                   | 1                                   |

Ref. 4995 - N° Art. 22289: **584,44 €**

## Display 35



### 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>L310 | Puntero<br>Pointed<br>Ciseau<br>L600 | Plano<br>Flat<br>Plate<br>L600 |
|-----|--------------------------------------|--------------------------------|------------------------------|------------------------------|--------------------------|-------------------------------------|--------------------------------------|--------------------------------|
| Pcs | 2                                    | 2                              | 2                            | 2                            | 2                        | 2                                   | 1                                    | 1                              |

Ref. 4995 - N° Art. 22621: **470,12 €**

## Display 36



### 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 | Acanalador<br>Canal<br>Gouge Brique | Acanalador<br>Canal<br>Gouge Brique |
|-----|------------------------------|------------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------------------|-------------------------------------|
| Pcs | 1                            | 1                            | 1                      | 1                      | 1                      | 1                      | 1                                   | 1                                   |

Ref. 4995 - N° Art. 22623: **114,32 €**



# BROCAS MANGO CILINDRICO

## Straight Shank Drill Bits

## Forets Queue Cylindrique

Ref. **1882**

**BROCA PORCELÁNICO**  
PORCELAIN Drill  
Foret PORCELAINE



**EXTREME**



Sin percusión  
No percussion  
Sans percussion

Porcelánico  
Porcelain  
Porcelaine

Teja, piedra, granito, pizarra, cemento, terrazo, mármol, terracota  
Tile, quarry, granite, slate, cement, marble, terracotta  
Tuile, pierre, granit, ardoise, ciment, granit, marbre, terre cuite



| D<br>mm | L<br>mm | I<br>mm | d<br>mm |   | Nº Art. | €     |
|---------|---------|---------|---------|---|---------|-------|
| 3,00    | 85      | 42      | 3,0     | 1 | 13903   | 13,58 |
| 3,50    | 85      | 42      | 3,5     | 1 | 13906   | 13,58 |
| 4,00    | 85      | 50      | 4,0     | 1 | 13909   | 13,58 |
| 4,50    | 85      | 50      | 4,5     | 1 | 13910   | 13,58 |
| 5,00    | 85      | 50      | 5,0     | 1 | 14030   | 14,36 |
| 6,00    | 100     | 65      | 6,0     | 1 | 14036   | 15,03 |
| 7,00    | 125     | 75      | 7,0     | 1 | 14061   | 17,18 |
| 8,00    | 125     | 75      | 8,0     | 1 | 14062   | 18,61 |
| 9,00    | 150     | 90      | 9,0     | 1 | 14063   | 22,58 |
| 10,00   | 150     | 90      | 10,0    | 1 | 14066   | 22,58 |
| 11,00   | 150     | 90      | 11,0    | 1 | 14068   | 29,30 |

Ref. **1482**



| Cont. Ø           | Nº Art. | €     |
|-------------------|---------|-------|
| 4 Pcs: 4-5-6-8 mm | 31004   | 63,41 |

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 | 4 | 4 | 5 | 5 | 5 | 5 | 4 | 2 | 2 | 4 | 4  |

Ref. 4995 - Nº Art. 22661: **726,34 €**

| 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: **336,64 €**

142

Comprometidos con la fabricación y el empleo [izartool.com](http://izartool.com) Engagés dans la fabrication et l'emploi



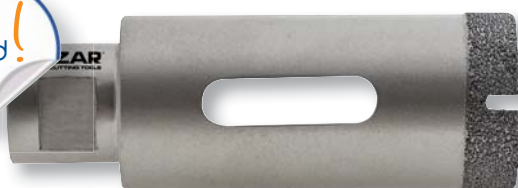
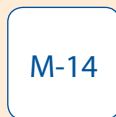


Ref. **1879****BROCA-CORONA DIAMANTE PORCELÁNICO**Porcelain Diamond Core Bit  
Foret-Trépan Diamant Porcelaineno  
ve  
dad!  
newPorcelánico  
Porcelain  
Porcelaine

| D<br>mm | d<br>mm | L<br>mm | I<br>mm |   | Nº Art. | €     |
|---------|---------|---------|---------|---|---------|-------|
| 5,00    | 8,30    | 68      | 10      | 1 | 56664   | 15,08 |
| 6,00    | 8,30    | 68      | 10      | 1 | 56665   | 15,78 |
| 8,00    | 8,30    | 80      | 10      | 1 | 56667   | 19,54 |
| 10,00   | 8,30    | 80      | 10      | 1 | 56668   | 23,71 |
| 12,00   | 8,30    | 80      | 10      | 1 | 56670   | 26,27 |
| 14,00   | 8,30    | 80      | 10      | 1 | 56671   | 30,37 |



| Cont. Ø               | Nº Art. | €      |
|-----------------------|---------|--------|
| 5 Pcs: 5-6-8-10-12 mm | 57448   | 100,38 |

Ref. **1883****CORONA DIAMANTE PORCELÁNICO**Porcelain Diamond Core Bit  
Trépan Diamant Porcelaineno  
ve  
dad!  
newPorcelánico  
Porcelain  
Porcelaine**Aplicación**

Taladrado limpio de agujeros exactos en placas de piedra, azulejos, cerámicas y piedra artificial dura. Especial para Porcelánico.

**Para herramienta**

Amoladora con conexión M-14.

**Ventaja**

Corte y taladrado con una única máquina

**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.

**Application**

Clean drilling of exact and Sharp holes in stone plates, tiles, ceramics and hard artificial stone. Special for Porcelain.

**For Tool**

Angle grinder with M-14 connection

**Advantage**

Cutting and drilling with only one machine

**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.

**Application**

Perçage trous précision sur tôles pierre, carreaux de faïence, céramiques. Spécial pour porcelaine

**Pour outils**

Meuleuse fixation M-14

**Avantage**

Coupe et perçage avec une seule machine

**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.

| D<br>mm | L<br>mm | Rosca<br>Thread<br>Filet |   | Nº Art. | €     |
|---------|---------|--------------------------|---|---------|-------|
| 6       | 90      | M-14                     | 1 | 34506   | 36,98 |
| 8       | 90      | M-14                     | 1 | 34353   | 38,02 |
| 10      | 90      | M-14                     | 1 | 34507   | 42,19 |
| 12      | 90      | M-14                     | 1 | 34508   | 46,35 |
| 14      | 90      | M-14                     | 1 | 55532   | 55,73 |
| 18      | 90      | M-14                     | 1 | 55533   | 56,77 |

| D<br>mm | L<br>mm | Rosca<br>Thread<br>Filet |   | Nº Art. | €     |
|---------|---------|--------------------------|---|---------|-------|
| 20      | 90      | M-14                     | 1 | 55534   | 57,81 |
| 25      | 90      | M-14                     | 1 | 55535   | 65,10 |
| 32      | 90      | M-14                     | 1 | 55536   | 72,40 |
| 35      | 90      | M-14                     | 1 | 34510   | 73,96 |
| 40      | 90      | M-14                     | 1 | 34511   | 86,46 |
| 45      | 90      | M-14                     | 1 | 55538   | 95,83 |

| D<br>mm | L<br>mm | Rosca<br>Thread<br>Filet |   | Nº Art. | €      |
|---------|---------|--------------------------|---|---------|--------|
| 50      | 90      | M-14                     | 1 | 34512   | 103,65 |
| 55      | 90      | M-14                     | 1 | 55539   | 109,38 |
| 60      | 90      | M-14                     | 1 | 34513   | 109,90 |
| 68      | 90      | M-14                     | 1 | 55541   | 120,83 |
| 75      | 90      | M-14                     | 1 | 34516   | 133,33 |
| 82      | 90      | M-14                     | 1 | 55542   | 145,31 |

Ref. **1886**

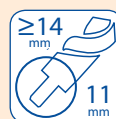
## BROCA PUNTA METAL DURO PARED PROFESIONAL

Professional Concrete Carbide Tipped Twist Drill

Foret Pointe Carbure Béton Professionnel



MD/HM  
TCT



Hormigón Bloque  
Concrete Block  
Parpaing

Hormigón/ Concrete/ Béton



| D<br>mm | L<br>mm | I<br>mm |   | Nº Art. | €     |
|---------|---------|---------|---|---------|-------|
| 3,0     | 60      | 35      | 1 | 30232   | 1,83  |
| 4,0     | 75      | 45      | 1 | 18525   | 1,83  |
| 5,0     | 85      | 40      | 1 | 18526   | 1,86  |
| 5,5     | 85      | 40      | 1 | 23983   | 1,92  |
| 6,0     | 100     | 55      | 1 | 18528   | 2,00  |
| 6,5     | 100     | 55      | 1 | 23984   | 2,18  |
| 7,0     | 100     | 55      | 1 | 18529   | 2,40  |
| 8,0     | 120     | 70      | 1 | 18531   | 2,68  |
| 9,0     | 120     | 70      | 1 | 18532   | 3,36  |
| 10,0    | 120     | 70      | 1 | 18534   | 3,36  |
| 11,0    | 150     | 90      | 1 | 17858   | 4,31  |
| 12,0    | 150     | 90      | 1 | 18535   | 5,04  |
| 13,0    | 150     | 90      | 1 | 30234   | 6,30  |
| 14,0    | 150     | 90      | 1 | 18537   | 7,43  |
| 16,0    | 150     | 90      | 1 | 30235   | 13,53 |

| D<br>mm | L<br>mm | I<br>mm |   | Nº Art. | €    |
|---------|---------|---------|---|---------|------|
| 5,0     | 150     | 80      | 1 | 30176   | 2,57 |
| 6,0     | 150     | 80      | 1 | 30200   | 3,15 |
| 8,0     | 200     | 130     | 1 | 30208   | 4,88 |
| 10,0    | 200     | 130     | 1 | 30214   | 6,01 |
| 12,0    | 200     | 130     | 1 | 30222   | 6,12 |

Ref. **1846**

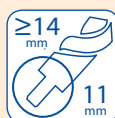
## BROCA PUNTA METAL DURO PARED PRO EXTRA LARGA

Extra Long Professional Concrete Carbide Tipped Twist Drill

Foret Pointe Carbure Béton Professionnel Extra-Longue



MD/HM  
TCT



Hormigón Bloque  
Concrete Block  
Parpaing

Hormigón/ Concrete/ Béton

Serie Extra Larga  
Extra Long Series  
Série Extra-Longue



| D<br>mm | L<br>mm | I<br>mm |   | Nº Art. | €     |
|---------|---------|---------|---|---------|-------|
| 6       | 400     | 300     | 1 | 30202   | 5,68  |
| 8       | 400     | 300     | 1 | 30212   | 5,68  |
| 10      | 400     | 300     | 1 | 30216   | 5,94  |
| 12      | 400     | 300     | 1 | 30227   | 6,38  |
| 14      | 400     | 300     | 1 | 30233   | 8,13  |
| 16      | 400     | 300     | 1 | 30237   | 14,21 |
| 18      | 400     | 300     | 1 | 30207   | 17,77 |
| 20      | 400     | 300     | 1 | 30225   | 19,69 |
| 22      | 400     | 300     | 1 | 16474   | 22,66 |
| 24      | 400     | 300     | 1 | 16475   | 23,46 |
| 25      | 400     | 300     | 1 | 16476   | 26,80 |

| D<br>mm | L<br>mm | I<br>mm |   | Nº Art. | €     |
|---------|---------|---------|---|---------|-------|
| 10      | 600     | 450     | 1 | 30218   | 9,73  |
| 12      | 600     | 450     | 1 | 30229   | 10,61 |
| 14      | 600     | 450     | 1 | 30236   | 12,85 |
| 16      | 600     | 450     | 1 | 30238   | 16,39 |
| 18      | 600     | 450     | 1 | 16477   | 22,05 |
| 20      | 600     | 450     | 1 | 16478   | 25,58 |

Ref. **1486**

Cont. Ø

Nº Art.

€

5 Pcs: 4-5-6-8-10 mm

30220

**13,53**Ref. **1487**

Cont. Ø

Nº Art.

€

8 Pcs: 3-4-5-6-7-8-9-10 mm

21653

**22,23**

## Display 07

### BROCA PUNTA METAL DURO PARED PROFESIONAL

Professional Concrete Carbide Tipped Twist Drill

Foret Pointe Carbure BEton 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>L100  | 8<br>L120  | 8<br>L120 | 9<br>L120 |
| Pcs | 10         | 10         | 5          | 5          | 5          | 5          | 5          | 5          | 5         | 5         |

Ref. 4995 - Nº Art. 22191: **562,93 €**

## Display 23

### JUEGOS CASSETTE MADERA Y CONSTRUCCIÓN

Wood &amp; Construction Cassette Sets

Jeux Cassette Bois &amp; Construction



Constr.

Madera  
Wood / Bois

|     |                                                 |                                                             |                                              |                                              |
|-----|-------------------------------------------------|-------------------------------------------------------------|----------------------------------------------|----------------------------------------------|
|     | 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. |
| 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                                                           | 3                               |

Ref. 4995 - Nº Art. 22372: **389,56 €**

Ref. **1880**

## BROCA PUNTA METAL DURO PARED STANDARD

Standard MASONRY Carbide Tipped Twist Drill  
Foret Pointe Carbure MAÇONNERIE Standard



130°



MD/HM  
TCT



Ladrillo / Brick / Brique



| D<br>mm | L<br>mm | I<br>mm | d<br>mm |   | Nº Art. | €    |
|---------|---------|---------|---------|---|---------|------|
| 3       | 60      | 30      | 2,5     | 1 | 18495   | 0,65 |
| 4       | 75      | 40      | 3,2     | 1 | 18496   | 0,67 |
| 5       | 85      | 50      | 4,0     | 1 | 18498   | 0,74 |
| 6       | 100     | 60      | 4,8     | 1 | 18499   | 0,83 |
| 7       | 100     | 60      | 5,2     | 1 | 18501   | 0,95 |
| 8       | 120     | 80      | 6,2     | 1 | 18502   | 1,05 |
| 9       | 120     | 80      | 7,5     | 1 | 18504   | 1,18 |
| 10      | 120     | 80      | 7,5     | 1 | 18505   | 1,27 |
| 11      | 150     | 85      | 8,5     | 1 | 30178   | 2,02 |
| 12      | 150     | 85      | 8,5     | 1 | 18507   | 2,17 |

| D<br>mm | L<br>mm | I<br>mm | d<br>mm |   | Nº Art. | €    |
|---------|---------|---------|---------|---|---------|------|
| 13      | 150     | 95      | 10,0    | 1 | 30180   | 2,47 |
| 14      | 150     | 95      | 10,0    | 1 | 18508   | 3,18 |
| 16      | 150     | 95      | 14,0    | 1 | 30184   | 4,90 |
| 18      | 160     | 105     | 16,0    | 1 | 30188   | 5,61 |
| 20      | 160     | 105     | 18,0    | 1 | 30190   | 6,89 |
| 22      | 160     | 105     | 19,0    | 1 | 30192   | 8,06 |
| 25      | 160     | 105     | 22,5    | 1 | 30194   | 9,98 |

| D<br>mm | L<br>mm | I<br>mm | d<br>mm |   | Nº Art. | €    |
|---------|---------|---------|---------|---|---------|------|
| 5       | 150     | 85      | 4,0     | 1 | 30174   | 1,21 |
| 6       | 150     | 85      | 4,8     | 1 | 30196   | 1,29 |
| 6       | 200     | 135     | 4,8     | 1 | 30198   | 1,54 |
| 8       | 200     | 135     | 7,5     | 1 | 30211   | 1,80 |
| 10      | 200     | 135     | 8,5     | 1 | 30412   | 2,44 |
| 12      | 200     | 135     | 8,5     | 1 | 30224   | 2,97 |
| 14      | 200     | 135     | 12,0    | 1 | 30228   | 3,78 |

Ref. **1485**



Cont. Ø

Nº Art.

€

5 Pcs: 4-5-6-8-10 mm

30215

6,30

Ref. **1488**



Cont. Ø

Nº Art.

€

8 Pcs: 3-4-5-6-7-8-9-10 mm

30219

9,44

Ref. **1460**

## SET MIXTO BROCAS

Drill Bit Mix Set  
Jeu Forets Mix



Cont. Ø mm

Nº Art.

€

3 Pcs Metal: 5-6-8

3 Pcs Madera/Wood/Bois: 5-6-8

55610

10,27

3 Pcs Pared/Masonry/Béton 5-6-8

## Display 08

### BROCA PUNTA METAL DURO PARED

MASONRY Carbide Tipped Twist Drill

Foret Pointe Carbure MAÇONNERIE



|                      |     |            |           |           |           |           |            |            |            |           |            |            |            |
|----------------------|-----|------------|-----------|-----------|-----------|-----------|------------|------------|------------|-----------|------------|------------|------------|
| Ref.<br>1880         | 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 |           |            |            |            |
|                      | Pcs | 5          | 5         | 10        | 10        | 10        | 5          | 5          | 5          |           |            |            |            |
|                      | Ø   | 3<br>L60   | 4<br>L75  | 5<br>L85  | 5<br>L85  | 6<br>L100 | 6<br>L100  | 7<br>L100  | 8<br>L120  | 9<br>L120 | 10<br>L120 | 12<br>L150 | 14<br>L150 |
|                      | Pcs | 10         | 10        | 10        | 10        | 10        | 10         | 10         | 10         | 5         | 5          | 5          | 5          |
| Ref.<br>1485<br>1488 | Ø   | Ref. 1485  |           |           | Ref. 1488 |           |            |            | Ref. 1485  |           |            |            |            |
|                      | Pcs | 5          |           |           | 5         |           |            |            | 5          |           |            |            |            |

Ref. 4995 - N° Art. 22311: 336,60 €

## Display 09

### BROCAS PARED, VIDRIO, UNIVERSAL

Masonry, Glass, Universal Drill Bits

Forets Maçonnerie, Verre, Universel



|              |     |          |          |          |          |           |           |           |           |           |            |            |            |
|--------------|-----|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| Ref.<br>1880 | Ø   | 3<br>L60 | 4<br>L75 | 5<br>L85 | 5<br>L85 | 6<br>L100 | 6<br>L100 | 7<br>L100 | 8<br>L120 | 9<br>L120 | 10<br>L120 | 12<br>L150 | 14<br>L150 |
|              | Pcs | 5        | 5        | 5        | 5        | 10        | 10        | 5         | 20        | 3         | 3          | 3          | 3          |
| Ref.<br>1836 | Ø   | 3        | 4        | 4        | 5        | 5         | 6         | 6         | 8         | 8         | 10         |            |            |
|              | Pcs | 5        | 3        | 2        | 3        | 2         | 3         | 2         | 3         | 2         | 5          |            |            |
| Ref.<br>1881 | Ø   | 4        | 5        | 6        | 6        | 8         | 8         | 10        | 12        |           |            |            |            |
|              | Pcs | 5        | 5        | 5        | 5        | 3         | 2         | 5         | 5         |           |            |            |            |

Ref. 4995 - N° Art. 22410: 495,25 €

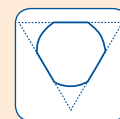




Ref. **1881**

## BROCA UNIVERSAL

UNIVERSAL Drill  
Foret UNIVERSEL



Cerámica / Ceramics

Ladrillo / Brick / Brique

Madera / Wood / Bois

Plástico / Plastics / Plastiques



| D<br>mm | L<br>mm | I<br>mm |   | Nº Art. | €    |
|---------|---------|---------|---|---------|------|
| 4       | 103     | 50      | 1 | 19065   | 5,20 |
| 5       | 112     | 50      | 1 | 19066   | 4,79 |
| 6       | 123     | 60      | 1 | 19069   | 5,01 |
| 8       | 134     | 80      | 1 | 19072   | 5,84 |
| 10      | 135     | 80      | 1 | 19075   | 7,20 |
| 12      | 153     | 90      | 1 | 19076   | 9,10 |

Ref. **1889**



| D<br>mm | L<br>mm | I<br>mm |    | Nº Art. | €    |
|---------|---------|---------|----|---------|------|
| 5       | 112     | 50      | 10 | 21925   | 4,31 |
| 6       | 123     | 60      | 10 | 21926   | 4,49 |
| 8       | 134     | 80      | 10 | 21927   | 5,25 |

**PRECIO UNITARIO MEJORADO**  
Improved Unitary Price  
Prix unitaire amélioré

## Display 09

## BROCAS PARED, VIDRIO, UNIVERSAL

Masonry, Glass, Universal Drill Bits  
Forets Maçonnerie, Verre, Universel



| Ref. | Ø   | 3   | 4   | 5   | 5   | 6    | 6    | 7    | 8    | 9    | 10   | 12   | 14   |
|------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| 1880 |     | L60 | L75 | L85 | L85 | L100 | L100 | L100 | L120 | L120 | L120 | L150 | L150 |
|      | Pcs | 5   | 5   | 5   | 5   | 10   | 10   | 5    | 20   | 3    | 3    | 3    | 3    |
| Ref. | Ø   | 3   | 4   | 4   | 5   | 5    | 6    | 6    | 8    | 8    | 10   | 10   | 10   |
| 1836 |     |     |     |     |     |      |      |      |      |      |      |      |      |
|      | Pcs | 5   | 3   | 2   | 3   | 2    | 3    | 2    | 3    | 2    | 5    | 5    | 5    |
| Ref. | Ø   | 4   | 5   | 6   | 6   | 8    | 8    | 10   | 10   | 10   | 10   | 10   | 10   |
| 1881 |     |     |     |     |     |      |      |      |      |      |      |      |      |
|      | Pcs | 5   | 5   | 5   | 5   | 3    | 2    | 5    | 5    | 5    | 5    | 5    | 5    |

Ref. 4995 - Nº Art. 22410: 495,25 €

Ref. **1836**

## BROCA VIDRIO

GLASS Drill

Foret VERRE



Vidrio / Glass / Verre

Cerámica / Ceramics



| D<br>mm | d<br>mm | L<br>mm |   | Nº Art. | €            |
|---------|---------|---------|---|---------|--------------|
| 3       | 2,50    | 65      | 1 | 30239   | <b>5,04</b>  |
| 4       | 3,30    | 65      | 1 | 30240   | <b>5,53</b>  |
| 5       | 3,90    | 65      | 1 | 30241   | <b>5,88</b>  |
| 6       | 4,30    | 65      | 1 | 30242   | <b>6,22</b>  |
| 8       | 5,35    | 70      | 1 | 30243   | <b>7,61</b>  |
| 10      | 7,00    | 80      | 1 | 30244   | <b>10,67</b> |

Ref. **1699**

## PUNTERO MARCADOR

Pencil Scriber

Traçeur Carbure



Puntero Marcador  
Pencil Scriber  
Traçeur Carburé

Cerámica / Ceramics

Madera / Wood / Bois

Metal



|   | Nº Art. | €           |
|---|---------|-------------|
| 1 | 18856   | <b>4,55</b> |



# CORONAS

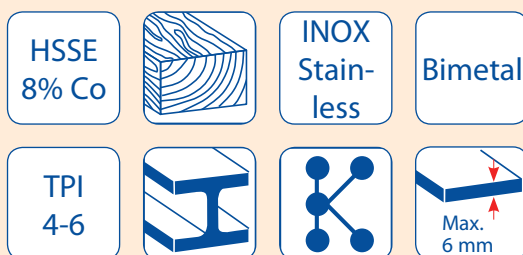
## Hole Saws

## Trépan

Ref. **1645**

### SIERRA CORONA METAL / MADERA

METAL / WOOD Hole Saw  
Trépan METAL / BOIS



Aceros <850 N/mm<sup>2</sup> Steel  
INOX / Stainless Steel  
Fundición / Cast Iron / Fonte  
Cobre / Copper / Cuivre  
Aluminio / Aluminium  
Madera / Wood / Bois

| D<br>mm | L<br>mm | P.G. | Pulgadas<br>Inches<br>Pouces | Nº Art. | €     |
|---------|---------|------|------------------------------|---------|-------|
| 14      | 37      |      | 9/16                         | 1 20094 | 10,03 |
| 16      | 37      | 9    | 5/8                          | 1 20104 | 10,03 |
| 17      | 37      |      | 11/16                        | 1 21321 | 10,03 |
| 19      | 37      | 11   | 3/4                          | 1 30250 | 10,03 |
| 20      | 37      |      | 25/32                        | 1 30258 | 10,03 |
| 21      | 37      | 14   | 13/16                        | 1 30260 | 10,03 |
| 22      | 37      | 16   | 7/8                          | 1 30265 | 10,03 |
| 23      | 37      |      | 14/16                        | 1 30268 | 10,03 |
| 24      | 37      |      | 15/16                        | 1 30274 | 10,03 |
| 25      | 37      |      | 1                            | 1 30282 | 10,52 |
| 27      | 37      |      | 1 1/16                       | 1 30287 | 11,12 |
| 29      | 37      | 21   | 1 1/8                        | 1 30289 | 11,12 |
| 30      | 37      |      | 1 3/16                       | 1 30293 | 11,12 |
| 32      | 37      |      | 1 1/4                        | 1 30297 | 11,12 |
| 33      | 37      |      | 1 5/16                       | 1 30301 | 11,12 |
| 35      | 37      |      | 1 3/8                        | 1 30302 | 11,85 |
| 37      | 37      | 29   | 1 7/16                       | 1 30304 | 11,85 |
| 38      | 37      |      | 1 1/2                        | 1 30307 | 11,85 |
| 40      | 37      |      | 1 9/16                       | 1 30308 | 11,87 |
| 41      | 37      |      | 1 5/8                        | 1 30310 | 11,87 |
| 43      | 37      |      | 1 11/16                      | 1 30313 | 11,87 |
| 44      | 37      |      | 1 3/4                        | 1 30315 | 14,60 |
| 46      | 37      |      | 1 13/16                      | 1 30316 | 14,60 |
| 48      | 37      | 36   | 1 7/8                        | 1 30318 | 14,60 |
| 50      | 37      |      |                              | 1 18800 | 14,60 |
| 51      | 37      |      | 2                            | 1 30320 | 14,60 |
| 52      | 37      |      | 2 1/16                       | 1 30321 | 17,17 |
| 54      | 37      | 42   | 2 1/8                        | 1 30323 | 17,17 |

| D<br>mm | L<br>mm | P.G. | Pulgadas<br>Inches<br>Pouces | Nº Art. | €      |
|---------|---------|------|------------------------------|---------|--------|
| 57      | 37      |      | 2 1/4                        | 1 30325 | 17,21  |
| 59      | 37      | 48   | 2 5/16                       | 1 30326 | 17,21  |
| 60      | 37      |      | 2 3/8                        | 1 30328 | 17,21  |
| 63      | 37      |      |                              | 1 18801 | 18,76  |
| 64      | 37      |      | 2 1/2                        | 1 30329 | 18,76  |
| 65      | 37      |      | 2 9/16                       | 1 30331 | 18,76  |
| 67      | 37      |      | 2 5/8                        | 1 30388 | 18,76  |
| 68      | 37      |      | 2 11/16                      | 1 30391 | 18,76  |
| 70      | 37      |      | 2 3/4                        | 1 30392 | 18,76  |
| 73      | 37      |      | 2 7/8                        | 1 30393 | 18,76  |
| 76      | 37      |      | 3                            | 1 30394 | 19,22  |
| 79      | 37      |      | 3 1/8                        | 1 30395 | 19,23  |
| 83      | 37      |      | 3 1/4                        | 1 30396 | 19,23  |
| 86      | 37      |      | 3 3/8                        | 1 30397 | 19,23  |
| 89      | 37      |      | 3 1/2                        | 1 30398 | 19,23  |
| 92      | 37      |      | 3 5/8                        | 1 30399 | 22,30  |
| 95      | 37      |      | 3 3/4                        | 1 30400 | 26,16  |
| 98      | 37      |      | 3 7/8                        | 1 30401 | 28,02  |
| 102     | 37      |      | 4                            | 1 30402 | 29,28  |
| 114     | 37      |      | 4 1/2                        | 1 30403 | 54,71  |
| 121     | 37      |      | 4 3/4                        | 1 30404 | 60,97  |
| 127     | 37      |      | 5                            | 1 30405 | 64,75  |
| 140     | 37      |      | 5 1/2                        | 1 30406 | 69,24  |
| 152     | 37      |      | 6                            | 1 30407 | 71,79  |
| 160     | 37      |      | 6 5/16                       | 1 24475 | 141,18 |
| 210     | 37      |      | 8 9/32                       | 1 24606 | 167,04 |

Ref. **1645**

Mod.  
1



Básico  
Basic / Essentiel

| Cont. Ø mm             | Nº Art. | €      |
|------------------------|---------|--------|
| 25-35-43-51-64-H3A-H4A | 18232   | 102,31 |

Ref. **1645**

Mod.  
2



Completo  
Complete / Complet

| Cont. Ø mm                                 | Nº Art. | €      |
|--------------------------------------------|---------|--------|
| 19-22-25-32-35-38-43-51-57-60-64-76-H3-H4A | 18234   | 210,58 |

Ref. **1645**

Mod.  
3



Electricista  
Electrician / Electricien

| Cont. Ø mm                            | Nº Art. | €      |
|---------------------------------------|---------|--------|
| 16-20-25-32-40-43-51-60-63-65-H3A-H4A | 18235   | 178,20 |

Ref. **1645**

Mod.  
4

no  
ve  
dad  
new



Básico 2  
Basic 2  
Essentiel 2

| Cont. Ø mm                | Nº Art. | €      |
|---------------------------|---------|--------|
| 16-20-25-32-40-51-H3A-H4A | 58617   | 103,13 |

Ref. **1645**

Mod.  
5

no  
ve  
dad  
new



Electricista 2  
Electrician 2  
Electricien 2

| Cont. Ø mm                         | Nº Art. | €      |
|------------------------------------|---------|--------|
| 16-20-27-32-40-43-48-51-64-H3A-H4A | 58618   | 151,21 |

Display  
19

**SIERRA CORONA METAL / MADERA**  
METAL / WOOD Hole Saw  
Trépan METAL / BOIS



|                |    |    |    |     |     |     |       |        |    |    |    |
|----------------|----|----|----|-----|-----|-----|-------|--------|----|----|----|
| 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. 1645      | Ø  | 38 | 40 | 41  | 43  | 44  | 48    | 51     | 54 |    |    |
| Pcs            | 2  | 2  | 2  | 2   | 2   | 2   | 2     | 2      | 2  |    |    |
| Ø              | 60 | 65 | 68 | 70  | 76  | 79  |       |        |    |    |    |
| Pcs            | 2  | 2  | 2  | 2   | 2   | 2   |       |        |    |    |    |
| Ref. 1645 1646 | Ø  | 83 | 89 | 102 | H3A | H4A | BR 90 | BR 105 |    |    |    |
| Pcs            | 1  | 1  | 1  | 3   | 3   | 3   | 3     | 3      |    |    |    |

Ref. 4995 - Nº Art. 22220: 848,44 €

Ref. **1647**

## CORONA MULTIPRO

MULTIPRO Hole Saw  
Trépan MULTIPRO



Diente MD  
Carbide Tipped  
Dent Carburé



Meta-  
crilato



Fibra Vidrio  
Fiberglass  
Fibre de verre

DM  
MDF



Madera / Wood / Bois

Metal

Ladrillo / Brick / Brique

Plástico / Plastics / Plastiques

Cerámica / Ceramics

| D<br>mm | L<br>mm | Pulgadas<br>Inches<br>Pouces | Z |   | Nº Art. | €     | D<br>mm | L<br>mm | Pulgadas<br>Inches<br>Pouces | Z |   | Nº Art. | €      |
|---------|---------|------------------------------|---|---|---------|-------|---------|---------|------------------------------|---|---|---------|--------|
| 16      | 57      | 5/8                          | 1 | 1 | 31855   | 9,94  | 65      | 57      | 2 3/16                       | 3 | 1 | 30710   | 18,62  |
| 19      | 57      | 3/4                          | 1 | 1 | 30691   | 9,94  | 67      | 57      | 2 5/8                        | 3 | 1 | 30711   | 18,62  |
| 20      | 57      | 25/32                        | 1 | 1 | 30692   | 9,94  | 68      | 57      | 2 11/16                      | 3 | 1 | 30712   | 18,62  |
| 22      | 57      | 7/8                          | 1 | 1 | 30693   | 9,94  | 70      | 57      | 2 3/4                        | 3 | 1 | 30713   | 18,62  |
| 24      | 57      | 15/16                        | 1 | 1 | 31856   | 10,44 | 73      | 57      | 2 7/8                        | 3 | 1 | 30714   | 18,62  |
| 25      | 57      | 1                            | 1 | 1 | 30694   | 10,44 | 76      | 57      | 3                            | 4 | 1 | 30715   | 19,06  |
| 27      | 57      | 1 1/16                       | 1 | 1 | 30695   | 11,04 | 79      | 57      | 3 1/8                        | 4 | 1 | 30716   | 19,07  |
| 29      | 57      | 1 1/8                        | 1 | 1 | 30696   | 11,04 | 83      | 57      | 3 1/4                        | 4 | 1 | 30717   | 19,07  |
| 30      | 57      | 1 3/16                       | 1 | 1 | 30697   | 11,04 | 86      | 57      | 3 3/8                        | 4 | 1 | 30718   | 19,07  |
| 32      | 57      | 1 1/4                        | 1 | 1 | 30698   | 11,04 | 89      | 57      | 3 1/2                        | 4 | 1 | 30719   | 19,07  |
| 35      | 57      | 1 3/8                        | 1 | 1 | 30699   | 11,76 | 92      | 57      | 3 5/8                        | 4 | 1 | 30720   | 22,12  |
| 38      | 57      | 1 1/2                        | 1 | 1 | 30700   | 11,76 | 95      | 57      | 3 3/4                        | 4 | 1 | 30721   | 25,94  |
| 40      | 57      | 1 9/16                       | 2 | 1 | 30701   | 11,77 | 98      | 57      | 3 7/8                        | 4 | 1 | 30722   | 27,78  |
| 41      | 57      | 1 5/8                        | 2 | 1 | 30702   | 11,77 | 102     | 57      | 4                            | 5 | 1 | 30723   | 29,04  |
| 43      | 57      | 1 11/16                      | 2 | 1 | 31857   | 14,48 | 105     | 57      | 4 1/8                        | 5 | 1 | 30724   | 31,06  |
| 44      | 57      | 1 3/4                        | 2 | 1 | 30703   | 14,48 | 108     | 57      | 4 1/4                        | 5 | 1 | 30725   | 33,22  |
| 48      | 57      | 1 7/8                        | 2 | 1 | 30704   | 14,48 | 111     | 57      | 4 3/8                        | 5 | 1 | 30726   | 35,56  |
| 51      | 57      | 2                            | 2 | 1 | 30705   | 14,48 | 114     | 57      | 4 1/2                        | 5 | 1 | 30727   | 54,23  |
| 54      | 57      | 2 1/8                        | 2 | 1 | 30706   | 17,03 | 121     | 57      | 4 3/4                        | 5 | 1 | 30728   | 60,47  |
| 57      | 57      | 2 1/4                        | 2 | 1 | 30707   | 17,06 | 127     | 57      | 5                            | 5 | 1 | 30729   | 64,20  |
| 60      | 57      | 2 3/8                        | 3 | 1 | 30708   | 17,06 | 140     | 57      | 5 1/2                        | 5 | 1 | 30730   | 68,65  |
| 64      | 57      | 2 1/2                        | 3 | 1 | 30709   | 17,72 | 152     | 57      | 6                            | 5 | 1 | 30731   | 71,18  |
|         |         |                              |   |   |         |       | 160     | 57      | 6 5/16                       | 5 | 1 | 30732   | 140,00 |

Display  
**60**

## CORONA MULTIPRO

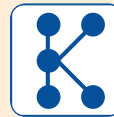
MULTIPRO Hole Saw  
Trépan MULTIPRO



| Ref. | 1647 | 1646 | 1647 | 1646 | 1647 | 1646    | 1647    | 1646 | 1647 | 1646 | 1647 | 1646 |
|------|------|------|------|------|------|---------|---------|------|------|------|------|------|
| Ø    | 16   | 19   | 20   | 22   | 24   | 25      | 27      | 29   | 30   | 32   | 35   |      |
| Pcs  | 2    | 2    | 2    | 2    | 2    | 2       | 2       | 2    | 2    | 2    | 2    |      |
| Ø    | 38   | 40   | 41   | 43   | 44   | 48      | 51      | 54   |      |      |      |      |
| Pcs  | 2    | 2    | 2    | 1    | 1    | 1       | 1       | 1    |      |      |      |      |
| Ø    | 60   | 65   | 68   | 70   | 76   | 79      |         |      |      |      |      |      |
| Pcs  | 1    | 1    | 1    | 1    | 1    | 1       |         |      |      |      |      |      |
| Ø    | 83   | 89   | 102  | H3C  | H4C  | BRC 110 | BRC 110 |      |      |      |      |      |
| Pcs  | 1    | 1    | 1    | 3    | 3    | 3       | 3       |      |      |      |      |      |

Ref. 4995 - Nº Art. 32965: **663,73 €**



Ref. **1661****SIERRA CORONA DIENTE MD INTEGRAL**Carbide Teeth Core Drill  
Trépan Denture CarbureDiente MD  
Carbide Tipped  
Dent CarbureFundición  
Cast Iron  
FonteINOX  
Stain-  
lessFibra Vidrio  
Fiberglass  
Fibre de verre

Madera / Wood / Bois

Cerámica / Ceramics

Fundición / Cast Iron / Fonte

INOX / Stainless Steel

Plástico / Plastics / Plastiques



| D<br>mm | L<br>mm | Pulgadas<br>Inches<br>Pouces |   | Nº Art. | €     |
|---------|---------|------------------------------|---|---------|-------|
| 19      | 31      | 3/4                          | 1 | 34311   | 19,96 |
| 22      | 31      | 7/8                          | 1 | 34312   | 21,35 |
| 25      | 31      | 1                            | 1 | 34313   | 22,33 |
| 29      | 31      | 1 1/8                        | 1 | 34314   | 25,06 |
| 32      | 31      | 1 1/4                        | 1 | 34315   | 26,32 |
| 35      | 31      | 1 3/8                        | 1 | 34316   | 29,34 |
| 38      | 31      | 1 1/2                        | 1 | 34317   | 31,10 |
| 44      | 31      | 1 3/4                        | 1 | 34318   | 32,87 |

| D<br>mm | L<br>mm | Pulgadas<br>Inches<br>Pouces |   | Nº Art. | €     |
|---------|---------|------------------------------|---|---------|-------|
| 48      | 31      | 1 7/8                        | 1 | 34319   | 35,93 |
| 51      | 31      | 2                            | 1 | 34320   | 37,91 |
| 54      | 31      | 2 1/8                        | 1 | 34321   | 38,85 |
| 57      | 31      | 2 1/4                        | 1 | 34322   | 39,83 |
| 60      | 31      | 2 3/8                        | 1 | 34323   | 41,76 |
| 64      | 31      | 2 1/2                        | 1 | 34324   | 43,68 |
| 67      | 31      | 2 5/8                        | 1 | 36831   | 45,86 |
| 70      | 31      | 2 3/4                        | 1 | 34325   | 48,58 |

| D<br>mm | L<br>mm | Pulgadas<br>Inches<br>Pouces |   | Nº Art. | €     |
|---------|---------|------------------------------|---|---------|-------|
| 76      | 31      | 3                            | 1 | 34326   | 49,01 |
| 83      | 31      | 3 1/4                        | 1 | 34327   | 52,46 |
| 86      | 31      | 3 3/8                        | 1 | 34328   | 55,11 |
| 89      | 31      | 3 1/2                        | 1 | 34329   | 57,78 |
| 95      | 31      | 3 3/4                        | 1 | 34330   | 67,01 |
| 102     | 31      | 4                            | 1 | 34331   | 70,92 |

Husillos y Adaptadores: Pag. 154 / Spindles &amp; Adaptors: Pag. 154 / Arbres et Adaptateurs: Pag. 154

Ref. **1662****CORONA POLVO MD ELECTRODEPOSITADO**Electrodeposited Carbide Powder Core Drill  
Trépan Poudre Carbure ElectroposéPolvo MD  
Carbide Powder  
Poudre Carbure

Kevlar

Fibra Vidrio  
Fiberglass  
Fibre de verre

Vidrio / Glass / Verre

Ladrillo / Brick / Brique

Cerámica / Ceramics



| D<br>mm | L<br>mm | Pulgadas<br>Inches<br>Pouces |   | Nº Art. | €     |
|---------|---------|------------------------------|---|---------|-------|
| 16      | 36      | 5/8                          | 1 | 34289   | 15,25 |
| 19      | 36      | 3/4                          | 1 | 34290   | 16,67 |
| 20      | 36      | 25/32                        | 1 | 34291   | 17,63 |
| 22      | 36      | 7/8                          | 1 | 34292   | 18,45 |
| 25      | 36      | 1                            | 1 | 34293   | 17,57 |
| 29      | 36      | 1 1/8                        | 1 | 34294   | 19,08 |
| 32      | 36      | 1 1/4                        | 1 | 34295   | 19,22 |
| 35      | 36      | 1 3/8                        | 1 | 34296   | 19,83 |

| D<br>mm | L<br>mm | Pulgadas<br>Inches<br>Pouces |   | Nº Art. | €     |
|---------|---------|------------------------------|---|---------|-------|
| 38      | 36      | 1 1/2                        | 1 | 34297   | 21,57 |
| 44      | 36      | 1 3/4                        | 1 | 34298   | 21,62 |
| 48      | 36      | 1 7/8                        | 1 | 34299   | 23,27 |
| 51      | 36      | 2                            | 1 | 34300   | 23,72 |
| 54      | 36      | 2 1/8                        | 1 | 34301   | 23,12 |
| 57      | 36      | 2 1/4                        | 1 | 34302   | 25,32 |
| 60      | 36      | 2 3/8                        | 1 | 34303   | 26,07 |
| 64      | 36      | 2 1/2                        | 1 | 34304   | 26,65 |

| D<br>mm | L<br>mm | Pulgadas<br>Inches<br>Pouces |   | Nº Art. | €     |
|---------|---------|------------------------------|---|---------|-------|
| 70      | 36      | 2 3/4                        | 1 | 34305   | 30,53 |
| 76      | 36      | 3                            | 1 | 34306   | 33,79 |
| 83      | 36      | 3 1/4                        | 1 | 34307   | 34,42 |
| 86      | 36      | 3 3/8                        | 1 | 34308   | 37,21 |
| 95      | 36      | 3 3/4                        | 1 | 34309   | 39,41 |
| 102     | 36      | 4                            | 1 | 34310   | 43,12 |

Husillos y Adaptadores: Pag. 154 / Spindles &amp; Adaptors: Pag. 154 / Arbres et Adaptateurs: Pag. 154

Ref. **1646**

## HUSILLOS Y BROCAS CORONAS

Hole Saw Spindles & Drill Bits  
Arbres et Forets Trépan

BR 90



BR 105



BRC 110



|     | L<br>mm |  | Nº Art. | €           |
|-----|---------|-------------------------------------------------------------------------------------|---------|-------------|
| BR  | 90      | 1                                                                                   | 19605   | <b>2,97</b> |
| BR  | 105     | 1                                                                                   | 30019   | <b>3,26</b> |
| BRC | 110     | 1                                                                                   | 39850   | <b>3,26</b> |

H3A



H4A



HSSE  
5% Co

| Mod. | d<br>mm | Corona<br>Hole Saw / Trépan<br>mm |  | Nº Art. | €            |
|------|---------|-----------------------------------|-------------------------------------------------------------------------------------|---------|--------------|
| H3A  | 9,52    | 14-30                             | 1                                                                                   | 19602   | <b>10,69</b> |
| H4A  | 9,52    | 32-210                            | 1                                                                                   | 19603   | <b>18,40</b> |

H3C



H4C



MD/HM  
TCT

| Mod. | d<br>mm | Corona<br>Hole Saw / Trépan<br>mm |  | Nº Art. | €            |
|------|---------|-----------------------------------|-------------------------------------------------------------------------------------|---------|--------------|
| H3C  | 9,52    | 14-30                             | 1                                                                                   | 39848   | <b>10,69</b> |
| H4C  | 9,52    | 32-210                            | 1                                                                                   | 39849   | <b>18,40</b> |



INOX  
Stain-  
less



H3A



H4A



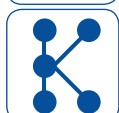
\* BR 105



Ref. 1647



Ref. 1645



H3C



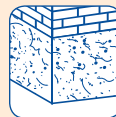
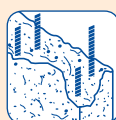
H4C



Ref. 1661



Ref. 1662

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<br>Filet | L<br>mm | Nº<br>Segmentos | Alto<br>Height<br>Haut<br>Segmento<br>mm | Largo<br>Length<br>Longueur<br>Segmento<br>mm | Ancho<br>Width<br>Largeur<br>Segmento<br>mm | Kw*     |  | Nº Art. | €      |
|---------|--------------------------|---------|-----------------|------------------------------------------|-----------------------------------------------|---------------------------------------------|---------|-------------------------------------------------------------------------------------|---------|--------|
| 32      | 1" 1/4                   | 300     | 3               | 9                                        | 24                                            | 4                                           | 0,7>1,2 | 1                                                                                   | 34333   | 112,96 |
| 42      | 1" 1/4                   | 300     | 4               | 9                                        | 24                                            | 4                                           | 0,7>1,2 | 1                                                                                   | 34334   | 123,24 |
| 52      | 1" 1/4                   | 450     | 5               | 9                                        | 24                                            | 4                                           | 0,7>1,2 | 1                                                                                   | 34335   | 133,51 |
| 62      | 1" 1/4                   | 450     | 6               | 9                                        | 24                                            | 4                                           | 0,7>1,2 | 1                                                                                   | 34336   | 154,06 |
| 72      | 1" 1/4                   | 450     | 6               | 9                                        | 24                                            | 4                                           | 0,7>1,2 | 1                                                                                   | 34337   | 184,89 |
| 82      | 1" 1/4                   | 450     | 7               | 9                                        | 24                                            | 4                                           | 1,2>2,3 | 1                                                                                   | 34338   | 195,16 |
| 92      | 1" 1/4                   | 450     | 8               | 9                                        | 24                                            | 4                                           | 1,2>2,3 | 1                                                                                   | 34339   | 225,98 |
| 102     | 1" 1/4                   | 450     | 9               | 9                                        | 24                                            | 4                                           | 1,2>2,3 | 1                                                                                   | 34340   | 246,54 |
| 112     | 1" 1/4                   | 450     | 9               | 9                                        | 24                                            | 4                                           | 1,2>2,3 | 1                                                                                   | 34341   | 256,81 |
| 122     | 1" 1/4                   | 450     | 10              | 9                                        | 24                                            | 4                                           | 1,2>2,3 | 1                                                                                   | 34342   | 277,35 |
| 127     | 1" 1/4                   | 450     | 11              | 9                                        | 24                                            | 4                                           | 1,2>2,3 | 1                                                                                   | 34332   | 292,70 |
| 132     | 1" 1/4                   | 450     | 11              | 9                                        | 24                                            | 5                                           | 1,2>2,3 | 1                                                                                   | 34343   | 308,18 |
| 142     | 1" 1/4                   | 450     | 12              | 9                                        | 24                                            | 5                                           | 1,2>2,3 | 1                                                                                   | 34344   | 359,54 |
| 152     | 1" 1/4                   | 450     | 12              | 9                                        | 24                                            | 5                                           | 1,2>2,3 | 1                                                                                   | 34357   | 359,54 |
| 162     | 1" 1/4                   | 450     | 12              | 9                                        | 24                                            | 5                                           | 2,3>3,9 | 1                                                                                   | 34345   | 380,10 |
| 172     | 1" 1/4                   | 450     | 13              | 9                                        | 24                                            | 5                                           | 2,3>3,9 | 1                                                                                   | 34346   | 431,47 |
| 182     | 1" 1/4                   | 450     | 13              | 9                                        | 24                                            | 5                                           | 2,3>3,9 | 1                                                                                   | 34347   | 441,74 |
| 200     | 1" 1/4                   | 450     | 15              | 9                                        | 24                                            | 5                                           | 2,3>3,9 | 1                                                                                   | 34349   | 493,11 |
| 225     | 1" 1/4                   | 450     | 15              | 9                                        | 24                                            | 5                                           | 2,3>3,9 | 1                                                                                   | 34350   | 585,58 |
| 250     | 1" 1/4                   | 450     | 16              | 9                                        | 24                                            | 5                                           | 2,3>3,9 | 1                                                                                   | 34351   | 647,22 |
| 300     | 1" 1/4                   | 450     | 17              | 9                                        | 24                                            | 5                                           | 2,3>3,9 | 1                                                                                   | 34352   | 821,89 |

\*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 trépan





## DISCOS DIAMANTE

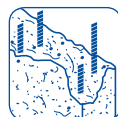
### Diamond Cutting Blades

### Disques Diamant

Ref. **1850**

#### GENERAL OBRA SEGMENTADO SINTERIZADO

General Works Segmented Sinterized  
Général Travaux Segmenté Fritté

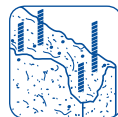
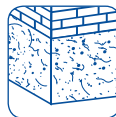


| D<br>mm | d1<br>mm | Nº<br>Segmentos | Alto<br>Height<br>Haut<br>Segmento<br>mm | Largo<br>Length<br>Longueur<br>Segmento<br>mm | Ancho<br>Width<br>Largeur<br>Segmento<br>mm | Max<br>R.P.M. |   | Nº Art. | €     |
|---------|----------|-----------------|------------------------------------------|-----------------------------------------------|---------------------------------------------|---------------|---|---------|-------|
| 115     | 22,23    | 9               | 7                                        | 31                                            | 2                                           | 13000         | 1 | 34497   | 7,96  |
| 230     | 22,23    | 18              | 7                                        | 34                                            | 2                                           | 6500          | 1 | 34498   | 25,95 |

Ref. **1851**

#### GENERAL OBRA TURBO

General Works Turbo  
Général Travaux Turbo

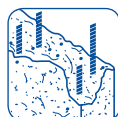


| D<br>mm | d1<br>mm | Nº<br>Segmentos | Alto<br>Height<br>Haut<br>Segmento<br>mm | Largo<br>Length<br>Longueur<br>Segmento<br>mm | Ancho<br>Width<br>Largeur<br>Segmento<br>mm | Max<br>R.P.M. |   | Nº Art. | €     |
|---------|----------|-----------------|------------------------------------------|-----------------------------------------------|---------------------------------------------|---------------|---|---------|-------|
| 115     | 22,23    | Cont.           | 7                                        | 7                                             | 2                                           | 13000         | 1 | 34499   | 11,85 |
| 230     | 22,23    | Cont.           | 7                                        | 7                                             | 2                                           | 6500          | 1 | 34500   | 31,87 |

Ref. **1852**

#### GENERAL OBRA PRO SEGMENTADO LÁSER

General Works Pro Segmented Laser  
Général Travaux Pro Segmenté Laser



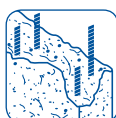
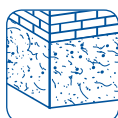
| D<br>mm | d1<br>mm | Nº<br>Segmentos | Alto<br>Height<br>Haut<br>Segmento<br>mm | Largo<br>Length<br>Longueur<br>Segmento<br>mm | Ancho<br>Width<br>Largeur<br>Segmento<br>mm | Max<br>R.P.M. |   | Nº Art. | €     |
|---------|----------|-----------------|------------------------------------------|-----------------------------------------------|---------------------------------------------|---------------|---|---------|-------|
| 115     | 22,23    | 9               | 7                                        | 31                                            | 2                                           | 13000         | 1 | 34501   | 22,79 |
| 230     | 22,23    | 16              | 7                                        | 38                                            | 3                                           | 6500          | 1 | 34502   | 52,15 |

Ref. **1853****PORCELÁNICO**Porcelain  
Porcelaine

Porcelain

Porcelánico  
Porcelain  
Porcelaine

| D<br>mm | d1<br>mm | Nº<br>Segmentos | Alto<br>Height<br>Haut<br>Segmento<br>mm | Largo<br>Length<br>Longueur<br>Segmento<br>mm | Ancho<br>Width<br>Largeur<br>Segmento<br>mm | Max<br>R.P.M. |   | Nº Art. | €     |
|---------|----------|-----------------|------------------------------------------|-----------------------------------------------|---------------------------------------------|---------------|---|---------|-------|
| 115     | 22,23    | Cont.           | 7                                        | 7                                             | 1                                           | 13000         | 1 | 34503   | 31,36 |
| 230     | 22,23    | Cont.           | 7                                        | 7                                             | 2                                           | 6500          | 1 | 34504   | 75,71 |

Ref. **1854****GENERAL OBRA PRO SEGMENTADO REFRIGERADO**General Works Pro Segment. Refrigerated  
Général Travaux Pro Segmenté Réfrigéré

| D<br>mm | d1<br>mm | Nº<br>Segmentos | Alto<br>Height<br>Haut<br>Segmento<br>mm | Largo<br>Length<br>Longueur<br>Segmento<br>mm | Ancho<br>Width<br>Largeur<br>Segmento<br>mm | Max<br>R.P.M. |   | Nº Art. | €     |
|---------|----------|-----------------|------------------------------------------|-----------------------------------------------|---------------------------------------------|---------------|---|---------|-------|
| 230     | 22,23    | 15              | 10                                       | 40                                            | 3                                           | 6500          | 1 | 34505   | 90,12 |

Ref. **1849****AMARRE RÁPIDO AMOLADORA**Quick Lock Grinding Tool  
Attachement Rapide Meuleuseno  
ve  
dad!  
new

| Mod. | Nº Art. | €     |
|------|---------|-------|
| 1    | 55946   | 21,81 |





Ref. **8309**

### CUTER HOJA PARTIBLE 9 MM

9 mm Snap-Off Blade Box Cutter  
Couteaux à Lames Rétractables 9 mm



| Mod. | Hoja<br>Blade / Lame<br>mm |   | Nº Art. | €    |
|------|----------------------------|---|---------|------|
| 9    | 9                          | 1 | 34238   | 9,43 |

Ref. **8318**

### CUTER HOJA PARTIBLE 18 MM

18 mm Snap-Off Blade Box Cutter  
Couteaux à Lames Rétractables 18 mm



| Mod. | Hoja<br>Blade / Lame<br>mm |   | Nº Art. | €     |
|------|----------------------------|---|---------|-------|
| 18   | 18                         | 1 | 34239   | 15,51 |

Ref. **8319**

### CUTER HOJA SEGURIDAD 19 MM

19 mm Security Blade Box Cutter  
Couteaux à Lame Sécurité 19 mm



| Mod. | Hoja<br>Blade / Lame<br>mm |   | Nº Art. | €    |
|------|----------------------------|---|---------|------|
| 19S  | 60x19x0,65                 | 1 | 34240   | 6,18 |

Ref. **8331**

Cuchillas Repuesto  
Spare Blades  
Lames de Rechange

| Mod. | Hoja<br>Blade / Lame<br>mm |    | Nº Art. | €    |
|------|----------------------------|----|---------|------|
| 9    | 9                          | 10 | 34241   | 0,28 |
| 18   | 18                         | 10 | 34242   | 0,41 |
| 19S  | 60x19x0,65                 | 10 | 34243   | 0,34 |

**PRECIO  
UNITARIO  
MEJORADO**  
Improved  
Unitary Price  
Prix unitaire  
amélioré

## **MADERA**

Wood  
Bois

### **BROCAS**

Drill Bits  
Forets

160

### **FRESAS**

Router Cutters  
Fraises

168





# BROCAS

## Drill Bits

### Forets

Ref. **1640**

### BROCA PUNTA CENTRAR

Center Point Drill Bit  
Foret Auto-Centreur

no  
ve  
dad  
new

IZAR

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      | <b>0,60</b> |
| 4       | 75      | 43      | 4,00    | 1 | 18427      | <b>0,61</b> |
| 5       | 86      | 52      | 5,00    | 1 | 18429      | <b>0,66</b> |
| 6       | 97      | 60      | 6,00    | 1 | 18430      | <b>0,82</b> |
| 7       | 109     | 69      | 7,00    | 1 | 18432      | <b>0,89</b> |
| 8       | 117     | 75      | 8,00    | 1 | 18433      | <b>1,11</b> |
| 9       | 125     | 80      | 9,00    | 1 | 18435      | <b>1,31</b> |
| 10      | 133     | 87      | 10,00   | 1 | 18436      | <b>1,39</b> |

| D<br>mm | L<br>mm | I<br>mm | d<br>mm |   | Nº<br>Art. | €           |
|---------|---------|---------|---------|---|------------|-------------|
| 11      | 142     | 89      | 9,95    | 1 | 30380      | <b>1,74</b> |
| 12      | 151     | 96      | 9,95    | 1 | 18438      | <b>1,91</b> |
| 13      | 151     | 96      | 9,95    | 1 | 30381      | <b>2,00</b> |
| 14      | 151     | 97      | 9,95    | 1 | 18439      | <b>2,19</b> |
| 15      | 160     | 100     | 9,95    | 1 | 30382      | <b>2,57</b> |
| 16      | 160     | 100     | 9,95    | 1 | 30383      | <b>2,93</b> |
| 18      | 180     | 120     | 9,95    | 1 | 17860      | <b>7,46</b> |
| 20      | 200     | 130     | 9,95    | 1 | 17861      | <b>9,07</b> |

| D<br>mm | L<br>mm | I<br>mm | d<br>mm |   | Nº<br>Art. | €           |
|---------|---------|---------|---------|---|------------|-------------|
| 6       | 250     | 200     | 6,00    | 1 | 55969      | <b>2,12</b> |
| 8       | 250     | 200     | 8,00    | 1 | 55970      | <b>2,42</b> |
| 10      | 250     | 200     | 10,00   | 1 | 55971      | <b>3,14</b> |
| 12      | 250     | 200     | 9,95    | 1 | 55972      | <b>3,76</b> |

Ref. **1435**

| Cont. Ø              | Nº Art. | €           |
|----------------------|---------|-------------|
| 5 Pcs: 4-5-6-8-10 mm | 30223   | <b>5,83</b> |



Ref. **1438**

| Cont. Ø                    | Nº Art. | €           |
|----------------------------|---------|-------------|
| 8 Pcs: 3-4-5-6-7-8-9-10 mm | 30226   | <b>8,76</b> |



Ref. **1460**

no  
ve  
dad  
new



| Cont. Ø mm                       | Nº Art. | €            |
|----------------------------------|---------|--------------|
| 3 Pcs Metal: 5-6-8               |         |              |
| 3 Pcs Madera/Wood/Bois: 5-6-8    | 55610   | <b>10,27</b> |
| 3 Pcs Pared/Masonry/Béton: 5-6-8 |         |              |

Ref. **1641**

## BROCA PUNTA CENTRAR PRO

PRO Center Point Drill Bit

Foret Auto-Centreur PRO



HSSE  
5% Co



Maderas Blandas  
Soft Wood  
Bois tendre

| D<br>mm | L<br>mm | I<br>mm | d<br>mm |   | Nº Art. | €    |
|---------|---------|---------|---------|---|---------|------|
| 3       | 61      | 33      | 3       | 1 | 34450   | 1,79 |
| 4       | 75      | 43      | 4       | 1 | 34451   | 2,14 |
| 5       | 86      | 52      | 5       | 1 | 34452   | 2,63 |
| 6       | 97      | 60      | 6       | 1 | 34453   | 3,05 |
| 8       | 117     | 75      | 8       | 1 | 34454   | 4,77 |
| 10      | 133     | 87      | 10      | 1 | 34455   | 6,79 |

Ref. **1651**

## BROCA PLANA GRAN RENDIMIENTO

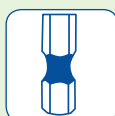
Heavy Duty Flat Drill Bit

Méche Plate Grande Rendement

no  
ve  
dad  
new



Maderas Blandas  
Soft Wood  
Bois tendre



| D<br>mm | d<br>mm | L<br>mm | I<br>mm |   | Nº Art. | €    |
|---------|---------|---------|---------|---|---------|------|
| 6,00    | 6,35    | 160     | 38      | 1 | 56019   | 2,45 |
| 8,00    | 6,35    | 160     | 38      | 1 | 56021   | 2,45 |
| 10,00   | 6,35    | 160     | 38      | 1 | 56022   | 2,57 |
| 12,00   | 6,35    | 160     | 42      | 1 | 56023   | 2,84 |
| 13,00   | 6,35    | 160     | 42      | 1 | 56024   | 2,84 |
| 14,00   | 6,35    | 160     | 42      | 1 | 56025   | 2,96 |
| 16,00   | 6,35    | 160     | 42      | 1 | 56026   | 2,96 |
| 18,00   | 6,35    | 160     | 42      | 1 | 56028   | 3,64 |
| 19,00   | 6,35    | 160     | 42      | 1 | 56029   | 3,64 |
| 20,00   | 6,35    | 160     | 42      | 1 | 56030   | 3,64 |
| 22,00   | 6,35    | 160     | 42      | 1 | 56031   | 3,64 |
| 24,00   | 6,35    | 160     | 46      | 1 | 56032   | 4,54 |
| 25,00   | 6,35    | 160     | 46      | 1 | 56033   | 4,54 |
| 26,00   | 6,35    | 160     | 46      | 1 | 56034   | 4,54 |
| 28,00   | 6,35    | 160     | 46      | 1 | 56035   | 5,83 |
| 30,00   | 6,35    | 160     | 46      | 1 | 56036   | 6,15 |
| 32,00   | 6,35    | 160     | 46      | 1 | 56037   | 6,15 |
| 35,00   | 6,35    | 160     | 46      | 1 | 56038   | 7,11 |
| 38,00   | 6,35    | 160     | 46      | 1 | 56040   | 8,06 |
| 40,00   | 6,35    | 160     | 46      | 1 | 56042   | 8,11 |

Ref. **1651**

no  
ve  
dad  
new

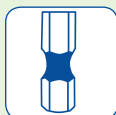


| Cont. Ø                           | Nº Art. | €     |
|-----------------------------------|---------|-------|
| 8 Pcs: 12-16-18-20-22-25-28-32 mm | 57449   | 33,24 |

Ref. **1650****BROCA PLANA**

Flat Drill Bit

Mèche Plate

n  
o  
v  
e  
d  
a  
d  
newPala  
Flat  
PlateMaderas Blandas  
Soft Wood  
Bois tendre

| D<br>mm | L<br>mm | I<br>mm | d<br>mm |  | Nº<br>Art. | €           |
|---------|---------|---------|---------|-----------------------------------------------------------------------------------|------------|-------------|
| 6       | 160     | 38      | 6,35    | 1                                                                                 | 30384      | <b>1,44</b> |
| 8       | 160     | 38      | 6,35    | 1                                                                                 | 30385      | <b>1,44</b> |
| 10      | 160     | 38      | 6,35    | 1                                                                                 | 30386      | <b>1,51</b> |
| 12      | 160     | 42      | 6,35    | 1                                                                                 | 30387      | <b>1,67</b> |
| 14      | 160     | 42      | 6,35    | 1                                                                                 | 18457      | <b>1,74</b> |
| 16      | 160     | 42      | 6,35    | 1                                                                                 | 18459      | <b>1,91</b> |
| 18      | 160     | 42      | 6,35    | 1                                                                                 | 18460      | <b>2,14</b> |
| 20      | 160     | 42      | 6,35    | 1                                                                                 | 18462      | <b>2,14</b> |
| 22      | 160     | 42      | 6,35    | 1                                                                                 | 18463      | <b>2,49</b> |
| 24      | 160     | 46      | 6,35    | 1                                                                                 | 18465      | <b>2,67</b> |
| 25      | 160     | 46      | 6,35    | 1                                                                                 | 18466      | <b>3,03</b> |
| 26      | 160     | 46      | 6,35    | 1                                                                                 | 18468      | <b>3,18</b> |
| 28      | 160     | 46      | 6,35    | 1                                                                                 | 18469      | <b>3,43</b> |
| 30      | 160     | 46      | 6,35    | 1                                                                                 | 18471      | <b>3,62</b> |
| 32      | 160     | 46      | 6,35    | 1                                                                                 | 18472      | <b>3,86</b> |
| 36      | 160     | 46      | 6,35    | 1                                                                                 | 30389      | <b>4,47</b> |
| 38      | 160     | 46      | 6,35    | 1                                                                                 | 30390      | <b>4,74</b> |
| 40      | 160     | 46      | 6,35    | 1                                                                                 | 17864      | <b>4,77</b> |

| D<br>mm | L<br>mm | I<br>mm | d<br>mm |  | Nº<br>Art. | €            |
|---------|---------|---------|---------|-------------------------------------------------------------------------------------|------------|--------------|
| 6       | 400     | 38      | 6,35    | 1                                                                                   | 55973      | <b>6,05</b>  |
| 8       | 400     | 38      | 6,35    | 1                                                                                   | 55974      | <b>6,05</b>  |
| 10      | 400     | 38      | 6,35    | 1                                                                                   | 55975      | <b>6,34</b>  |
| 12      | 400     | 42      | 6,35    | 1                                                                                   | 55976      | <b>7,01</b>  |
| 14      | 400     | 42      | 6,35    | 1                                                                                   | 55977      | <b>6,03</b>  |
| 16      | 400     | 42      | 6,35    | 1                                                                                   | 55978      | <b>6,62</b>  |
| 18      | 400     | 42      | 6,35    | 1                                                                                   | 55979      | <b>7,46</b>  |
| 20      | 400     | 42      | 6,35    | 1                                                                                   | 55980      | <b>7,46</b>  |
| 22      | 400     | 42      | 6,35    | 1                                                                                   | 55981      | <b>8,64</b>  |
| 24      | 400     | 46      | 6,35    | 1                                                                                   | 55982      | <b>9,27</b>  |
| 25      | 400     | 46      | 6,35    | 1                                                                                   | 55983      | <b>10,56</b> |
| 28      | 400     | 46      | 6,35    | 1                                                                                   | 55984      | <b>11,89</b> |
| 30      | 400     | 46      | 6,35    | 1                                                                                   | 55985      | <b>12,54</b> |
| 32      | 400     | 46      | 6,35    | 1                                                                                   | 55986      | <b>13,47</b> |
|         |         |         |         |                                                                                     |            |              |
|         |         |         |         |                                                                                     |            |              |

Ref. **1653**Alargador  
Extension  
Rallonge

| L<br>mm | d<br>mm     |  | Nº Art. | €           |
|---------|-------------|-------------------------------------------------------------------------------------|---------|-------------|
| 305     | <b>6,35</b> | 1                                                                                   | 23982   | <b>9,96</b> |



## Display 10

### BROCAS MADERA PALA Y 3 PUNTAS

Wood Drill Bits Flat & 3-Pointed

Forets Bois Meches Plates & 3-Pointes



|           |     |    |    |    |    |    |    |    |    |
|-----------|-----|----|----|----|----|----|----|----|----|
| Ref. 1650 | Ø   | 22 | 24 | 25 | 26 | 28 | 30 | 32 | 36 |
|           | Pcs | 10 | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
| Ref. 1650 | Ø   | 6  | 8  | 10 | 12 | 14 | 16 | 18 | 20 |
|           | Pcs | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Ref. 1640 | Ø   | 3  | 4  | 5  | 6  | 8  | 9  | 10 | 12 |
|           | Pcs | 10 | 10 | 10 | 10 | 10 | 5  | 5  | 5  |

Ref. 4995 - N° Art. 22184: 372,75 €

## Display 23

### JUEGOS CASSETTE MADERA Y CONSTRUCCIÓN

Wood & Construction Cassette Sets

Jeux Cassette Bois & Construction



|                                  |     |                                                 |                                                             |                                              |                                              |
|----------------------------------|-----|-------------------------------------------------|-------------------------------------------------------------|----------------------------------------------|----------------------------------------------|
| Constr.<br>Madera<br>Wood / Bois |     | 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. |
|                                  | 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                                                           | 3                                            |                                              |

Ref. 4995 - N° Art. 22372: 389,56 €



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. | €     | D<br>mm | L<br>mm | I<br>mm | d<br>mm |   | Nº<br>Art. | €     |
|---------|---------|---------|---------|---|------------|-------|---------|---------|---------|---------|---|------------|-------|
| 6       | 230     | 155     | 5,5     | 1 | 19139      | 9,64  | 8       | 460     | 385     | 7,5     | 1 | 19082      | 12,20 |
| 8       | 230     | 155     | 7,5     | 1 | 19145      | 10,16 | 10      | 460     | 385     | 9,5     | 1 | 19151      | 13,29 |
| 10      | 230     | 155     | 9,5     | 1 | 19148      | 10,73 | 12      | 460     | 385     | 11,5    | 1 | 19163      | 14,40 |
| 12      | 230     | 155     | 11,5    | 1 | 19154      | 11,16 | 14      | 460     | 385     | 12,5    | 1 | 19181      | 17,62 |
| 14      | 230     | 155     | 12,5    | 1 | 19172      | 11,81 | 16      | 460     | 385     | 12,5    | 1 | 19193      | 20,87 |
| 16      | 230     | 155     | 12,5    | 1 | 19187      | 13,53 | 18      | 460     | 385     | 12,5    | 1 | 19205      | 27,93 |
| 18      | 230     | 155     | 12,5    | 1 | 19202      | 17,25 | 20      | 460     | 385     | 12,5    | 1 | 19217      | 31,32 |
| 20      | 230     | 155     | 12,5    | 1 | 19211      | 19,58 | 22      | 460     | 385     | 12,5    | 1 | 19229      | 34,45 |
| 22      | 230     | 155     | 12,5    | 1 | 19226      | 21,87 | 24      | 460     | 385     | 12,5    | 1 | 19238      | 37,77 |
| 24      | 230     | 155     | 12,5    | 1 | 19235      | 23,99 | 26      | 460     | 385     | 12,5    | 1 | 27603      | 41,03 |
| 26      | 230     | 155     | 12,5    | 1 | 27304      | 26,18 | 28      | 460     | 385     | 12,5    | 1 | 27605      | 44,46 |
| 28      | 230     | 155     | 12,5    | 1 | 27604      | 30,90 | 30      | 460     | 385     | 12,5    | 1 | 27680      | 48,76 |
| 30      | 230     | 155     | 12,5    | 1 | 27630      | 44,22 | 32      | 460     | 385     | 12,5    | 1 | 29041      | 54,20 |
| 32      | 230     | 155     | 12,5    | 1 | 29040      | 44,22 |         |         |         |         |   |            |       |

Display  
**11**

## BROCA ESPIRAL TORNILLO EN LA PUNTA

Screw-Point Auger Drill Bit

Foret Spirale Vis en Pointe



|     |            |            |            |            |            |            |            |            |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|
| Ø   | 18<br>L460 | 20<br>L460 | 22<br>L460 | 24<br>L460 | 26<br>L460 | 28<br>L460 | 30<br>L460 | 32<br>L460 |
| Pcs | 2          | 2          | 1          | 1          | 1          | 1          | 1          | 1          |
| Ø   | 26<br>L230 | 28<br>L230 | 30<br>L230 | 32<br>L230 | 10<br>L460 | 12<br>L460 | 14<br>L460 | 16<br>L460 |
| Pcs | 1          | 1          | 1          | 1          | 2          | 2          | 2          | 2          |
| Ø   | 10<br>L230 | 12<br>L230 | 14<br>L230 | 16<br>L230 | 18<br>L230 | 20<br>L230 | 22<br>L230 | 24<br>L230 |
| Pcs | 2          | 2          | 2          | 2          | 2          | 2          | 1          | 1          |

Ref. 4995 - Nº Art. 22307: **871,03 €**

## Display 38



40 cm

| Ø   | 10<br>L230 | 12<br>L230 | 14<br>L230 | 16<br>L230 | 18<br>L230 | 20<br>L230 | 22<br>L230 | 24<br>L230 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|
| Pcs | 2          | 2          | 2          | 2          | 2          | 2          | 1          | 1          |

Ref. 4995 - N° Art. 22624: **213,98 €**

## Display 39



62 cm

| Ø   | 26<br>L230 | 28<br>L230 | 30<br>L230 | 32<br>L230 | 10<br>L460 | 12<br>L460 | 14<br>L460 | 16<br>L460 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|
| Pcs | 1          | 1          | 1          | 1          | 2          | 2          | 2          | 2          |

Ref. 4995 - N° Art. 22626: **277,83 €**

## Display 40



62 cm

| Ø   | 18<br>L460 | 20<br>L460 | 22<br>L460 | 24<br>L460 | 26<br>L460 | 28<br>L460 | 30<br>L460 | 32<br>L460 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|
| Pcs | 2          | 2          | 1          | 1          | 1          | 1          | 1          | 1          |

Ref. 4995 - N° Art. 22627: **379,22 €**

Ref. **1644****BROCA ENCOFRADO MADERA SDS PLUS**

SDS PLUS WOOD Cavity Drill Bit

Foret Coffrage BOIS SDS PLUS

SDS  
plus

Madera / Wood / Bois

Metal

| D<br>mm | L<br>mm | I<br>mm |  | Nº<br>Art. | €            |
|---------|---------|---------|-----------------------------------------------------------------------------------|------------|--------------|
| 10      | 400     | 87      | 1                                                                                 | 15447      | <b>18,18</b> |
| 12      | 400     | 100     | 1                                                                                 | 15450      | <b>19,56</b> |
| 14      | 400     | 100     | 1                                                                                 | 15453      | <b>25,54</b> |
| 16      | 400     | 100     | 1                                                                                 | 15460      | <b>32,25</b> |
| 18      | 400     | 100     | 1                                                                                 | 15507      | <b>42,15</b> |
| 20      | 400     | 100     | 1                                                                                 | 15576      | <b>46,57</b> |
| 22      | 400     | 100     | 1                                                                                 | 15579      | <b>53,83</b> |
| 24      | 400     | 100     | 1                                                                                 | 15582      | <b>68,55</b> |
| 26      | 400     | 100     | 1                                                                                 | 15603      | <b>81,23</b> |
| 28      | 400     | 100     | 1                                                                                 | 15621      | <b>87,26</b> |
| 30      | 400     | 100     | 1                                                                                 | 15627      | <b>96,85</b> |

| D<br>mm | L<br>mm | I<br>mm |  | Nº<br>Art. | €            |
|---------|---------|---------|-------------------------------------------------------------------------------------|------------|--------------|
| 10      | 600     | 87      | 1                                                                                   | 15660      | <b>18,86</b> |
| 12      | 600     | 100     | 1                                                                                   | 15669      | <b>21,04</b> |
| 14      | 600     | 100     | 1                                                                                   | 15780      | <b>28,20</b> |
| 16      | 600     | 100     | 1                                                                                   | 15781      | <b>34,88</b> |
| 18      | 600     | 100     | 1                                                                                   | 15783      | <b>44,87</b> |
| 20      | 600     | 100     | 1                                                                                   | 15784      | <b>49,25</b> |
| 22      | 600     | 100     | 1                                                                                   | 15793      | <b>56,55</b> |
| 24      | 600     | 100     | 1                                                                                   | 15799      | <b>71,23</b> |
| 26      | 600     | 100     | 1                                                                                   | 15801      | <b>83,98</b> |
| 28      | 600     | 100     | 1                                                                                   | 15807      | <b>89,95</b> |
| 30      | 600     | 100     | 1                                                                                   | 15808      | <b>99,63</b> |

Ref. **1643**

## BROCA ENCOFRADO MADERA

WOOD Cavity Drill Bit

Foret Coffrage BOIS



Madera / Wood / Bois

Metal



| D<br>mm | L<br>mm | I<br>mm | d<br>mm |   | Nº<br>Art. | €            |
|---------|---------|---------|---------|---|------------|--------------|
| 6       | 400     | 57      | 5       | 1 | 23988      | <b>9,38</b>  |
| 8       | 400     | 75      | 6       | 1 | 23989      | <b>9,44</b>  |
| 10      | 400     | 87      | 8       | 1 | 23990      | <b>11,07</b> |
| 12      | 400     | 100     | 8       | 1 | 23991      | <b>14,19</b> |
| 14      | 400     | 100     | 8       | 1 | 23992      | <b>17,04</b> |
| 16      | 400     | 100     | 10      | 1 | 23993      | <b>20,23</b> |
| 18      | 400     | 100     | 10      | 1 | 23994      | <b>26,63</b> |
| 20      | 400     | 100     | 10      | 1 | 23995      | <b>30,90</b> |
| 22      | 400     | 100     | 10      | 1 | 23996      | <b>41,33</b> |
| 24      | 400     | 100     | 11      | 1 | 23997      | <b>48,58</b> |
| 26      | 400     | 100     | 11      | 1 | 23999      | <b>55,89</b> |
| 28      | 400     | 100     | 11      | 1 | 24000      | <b>59,54</b> |
| 30      | 400     | 100     | 11      | 1 | 24001      | <b>66,57</b> |

| D<br>mm | L<br>mm | I<br>mm | d<br>mm |   | Nº<br>Art. | €            |
|---------|---------|---------|---------|---|------------|--------------|
| 6       | 600     | 57      | 5       | 1 | 24002      | <b>10,06</b> |
| 8       | 600     | 75      | 6       | 1 | 24004      | <b>10,12</b> |
| 10      | 600     | 87      | 8       | 1 | 24005      | <b>11,81</b> |
| 12      | 600     | 100     | 8       | 1 | 24006      | <b>14,87</b> |
| 14      | 600     | 100     | 8       | 1 | 24007      | <b>17,87</b> |
| 16      | 600     | 100     | 10      | 1 | 24008      | <b>21,30</b> |
| 18      | 600     | 100     | 10      | 1 | 24009      | <b>28,16</b> |
| 20      | 600     | 100     | 10      | 1 | 24010      | <b>32,17</b> |
| 22      | 600     | 100     | 10      | 1 | 24011      | <b>43,56</b> |
| 24      | 600     | 100     | 11      | 1 | 24012      | <b>53,85</b> |
| 26      | 600     | 100     | 11      | 1 | 24013      | <b>58,16</b> |
| 28      | 600     | 100     | 11      | 1 | 24014      | <b>61,80</b> |
| 30      | 600     | 100     | 11      | 1 | 24015      | <b>69,69</b> |

Display  
**41**



54 cm

| 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 |
|-----|-----------|-----------|------------|------------|------------|------------|------------|------------|
| Pcs | 2         | 2         | 2          | 2          | 2          | 2          | 2          | 2          |

Ref. 4995 - Nº Art. 22629: **277,76 €**

Display  
**42**



74 cm

| Ø   | 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: **292,72 €**





# FRESAS

## Router Cutters

### Fraises

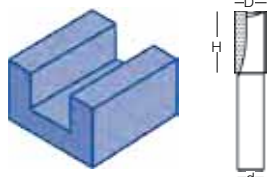
Ref. **1669**

### FRESA RANURADO Y COPIADO

Grooving & Copying Router Cutter  
Fraise Rainurage et Copiage



MD  
HM  
Carbure



| D<br>mm | d<br>mm | L<br>mm | H<br>mm |   | Nº<br>Art. | €     |
|---------|---------|---------|---------|---|------------|-------|
| 3,00    | 8,00    | 49,0    | 11      | 1 | 36312      | 16,18 |
| 4,00    | 8,00    | 48,5    | 11      | 1 | 36313      | 16,18 |
| 5,00    | 8,00    | 48,0    | 11      | 1 | 36314      | 17,41 |
| 6,00    | 8,00    | 55,0    | 19      | 1 | 36315      | 17,41 |
| 8,00    | 8,00    | 55,0    | 20      | 1 | 36316      | 18,07 |
| 10,00   | 8,00    | 52,0    | 20      | 1 | 36317      | 18,07 |
| 12,00   | 8,00    | 52,0    | 20      | 1 | 36318      | 19,38 |
| 14,00   | 8,00    | 52,0    | 20      | 1 | 36319      | 20,81 |

| D<br>mm | d<br>mm | L<br>mm | H<br>mm |   | Nº<br>Art. | €     |
|---------|---------|---------|---------|---|------------|-------|
| 16,00   | 8,00    | 52,0    | 20      | 1 | 36320      | 22,40 |
| 18,00   | 8,00    | 52,0    | 20      | 1 | 36321      | 23,25 |
| 20,00   | 8,00    | 52,0    | 20      | 1 | 36322      | 25,24 |
| 22,00   | 8,00    | 57,0    | 25      | 1 | 36323      | 26,23 |
| 24,00   | 8,00    | 42,0    | 10      | 1 | 36324      | 26,92 |
| 25,00   | 8,00    | 42,0    | 10      | 1 | 36325      | 27,32 |

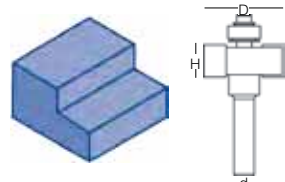
Ref. **1679**

### FRESA REBAJADO CON COPIADOR

Rebating with Bearing Router Cutter  
Fraise Reduirage à Copier



MD  
HM  
Carbure



| D<br>mm | d<br>mm | L<br>mm | H<br>mm |   | Nº<br>Art. | €     |
|---------|---------|---------|---------|---|------------|-------|
| 21,70   | 8,00    | 51,7    | 12,7    | 1 | 36344      | 42,06 |

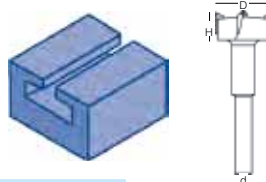
Ref. **1683**

### FRESA RANURAS EN "T"

"T" Grooves Router Cutter  
Fraise Rainures "T"



MD  
HM  
Carbure



| D<br>mm | d<br>mm | L<br>mm | H<br>mm |   | Nº<br>Art. | €     |
|---------|---------|---------|---------|---|------------|-------|
| 26,00   | 8,00    | 76,2    | 12,5    | 1 | 36349      | 31,64 |
| 35,00   | 8,00    | 76,2    | 12,5    | 1 | 37431      | 50,72 |

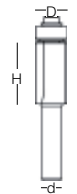
Ref. **1678**

## FRESA REFUNDIDO RECTO CON COPIADOR

Straight Trimming with Bearing Router Cutter  
Fraise Fusionnage Droit



MD  
HM  
Carbure



| D<br>mm | d<br>mm | L<br>mm | H<br>mm |   | Nº<br>Art. | €     |
|---------|---------|---------|---------|---|------------|-------|
| 12,70   | 8,00    | 57,4    | 25,4    | 1 | 36343      | 24,59 |

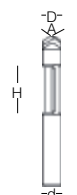
Ref. **1680**

## FRESA COPIADO

Copying Router Cutter  
Fraise Copiage



MD  
HM  
Carbure



| D<br>mm | d<br>mm | L<br>mm | H<br>mm | A    |   | Nº<br>Art. | €     |
|---------|---------|---------|---------|------|---|------------|-------|
| 8,00    | 8,00    | 67      | 19      | 110° | 1 | 36345      | 20,80 |

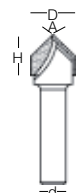
Ref. **1674**

## FRESA RANURAS EN "V"

"V" Grooves Router Cutter  
Fraise Rainures "V"



MD  
HM  
Carbure



| D<br>mm | d<br>mm | L<br>mm | H<br>mm | A   |   | Nº<br>Art. | €     |
|---------|---------|---------|---------|-----|---|------------|-------|
| 14,00   | 8,00    | 48      | 13      | 90° | 1 | 36340      | 20,81 |

Ref. **1675**

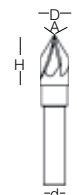
## FRESA RANURADO 60°

60° Grooving Router Cutter  
Fraise Rainurage 60°



MD  
HM  
Carbure

3 Z



| D<br>mm | d<br>mm | L<br>mm | H<br>mm | A   | Z |   | Nº<br>Art. | €     |
|---------|---------|---------|---------|-----|---|---|------------|-------|
| 11,00   | 8,00    | 60      | 20      | 60° | 3 | 1 | 36341      | 52,77 |

Ref. **1676****FRESA COLA DE MILANO CON PRECORTADOR**

Dovetail with Precutter Router Cutter

Fraise Queue d'Aronde avec Precouper

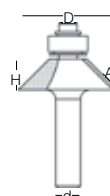
MD  
HM  
Carbure

| D<br>mm | d<br>mm | L<br>mm | H<br>mm | A   |   | N°<br>Art. | €     |
|---------|---------|---------|---------|-----|---|------------|-------|
| 14,30   | 8,00    | 49,5    | 13,5    | 15° | 1 | 36342      | 30,44 |

Ref. **1677****FRESA BISELADO CON COPIADOR**

Bevel with Bearing Router Cutter

Fraise Biseautage à Copier

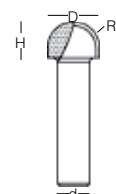
MD  
HM  
Carbure

| D<br>mm | d<br>mm | L<br>mm | H<br>mm | A   |   | N°<br>Art. | €     |
|---------|---------|---------|---------|-----|---|------------|-------|
| 32,00   | 8,00    | 42      | 10      | 45° | 1 | 36356      | 28,53 |

Ref. **1670****FRESA RADIO CÓNCAVO**

Concave Radius Router Cutter

Fraise Rayon Concave

MD  
HM  
Carbure

| D<br>mm | d<br>mm | L<br>mm | H<br>mm | R    |   | N°<br>Art. | €     |
|---------|---------|---------|---------|------|---|------------|-------|
| 9,50    | 8,00    | 41      | 7       | 4,75 | 1 | 36328      | 25,05 |
| 12,70   | 8,00    | 41      | 9       | 6,35 | 1 | 36329      | 26,74 |

Ref. **1671****FRESA RADIO CÓNCAVO CON COPIADOR**

Concave Radius with Bearing Router Cutter

Fraise Rayon Concave à Copier

MD  
HM  
Carbure

3 Z



| D<br>mm | d<br>mm | L<br>mm | H<br>mm | R    |   | N°<br>Art. | €     |
|---------|---------|---------|---------|------|---|------------|-------|
| 31,70   | 8,00    | 48      | 14      | 9,5  | 1 | 36330      | 42,06 |
| 38,10   | 8,00    | 46      | 16      | 12,7 | 1 | 36331      | 49,23 |



Ref. **1672**

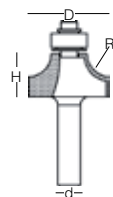
## FRESA REDONDEADO CANTOS CON COPIADOR

Round Edges with Bearing Router Cutter

Fraise Arrondir les Bouts à Copier



MD  
HM  
Carbure



| D<br>mm | d<br>mm | L<br>mm | H<br>mm | R    |  | Nº<br>Art. | €     |
|---------|---------|---------|---------|------|-----------------------------------------------------------------------------------|------------|-------|
| 25,40   | 8,00    | 45,5    | 13,5    | 6,4  | 1                                                                                 | 36332      | 42,06 |
| 28,70   | 8,00    | 47,0    | 15,0    | 8,0  | 1                                                                                 | 36333      | 44,35 |
| 31,70   | 8,00    | 48,5    | 16,5    | 9,5  | 1                                                                                 | 36334      | 47,73 |
| 38,10   | 8,00    | 51,7    | 19,7    | 12,7 | 1                                                                                 | 36335      | 55,54 |

Ref. **1673**

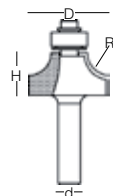
## FRESA REDONDEADO CANTOS CON COPIADOR

Round Edges with Bearing Router Cutter

Fraise Arrondir les Bouts à Copier



MD  
HM  
Carbure



| D<br>mm | d<br>mm | L<br>mm | H<br>mm | R     |  | Nº<br>Art. | €     |
|---------|---------|---------|---------|-------|-------------------------------------------------------------------------------------|------------|-------|
| 25,40   | 8,00    | 44,7    | 12,7    | 6,35  | 1                                                                                   | 36336      | 42,06 |
| 28,70   | 8,00    | 47,0    | 15,0    | 8,00  | 1                                                                                   | 36337      | 44,35 |
| 31,70   | 8,00    | 48,5    | 16,5    | 9,50  | 1                                                                                   | 36338      | 47,73 |
| 38,10   | 8,00    | 51,7    | 19,7    | 12,70 | 1                                                                                   | 36339      | 55,54 |

Ref. **1681**

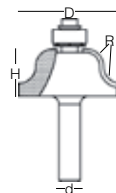
## FRESA PERFILADO CON COPIADOR

Profiling with Bearing Router Cutter

Fraise Profilage à Copier



MD  
HM  
Carbure



| D<br>mm | d<br>mm | L<br>mm | H<br>mm | R    |   | Nº<br>Art. | €     |
|---------|---------|---------|---------|------|---|------------|-------|
| 31,70   | 8,00    | 49,5    | 12,7    | 4,00 | 1 | 36346      | 57,50 |
| 38,10   | 8,00    | 44,7    | 18,0    | 6,35 | 1 | 36347      | 62,03 |

Ref. **1682**

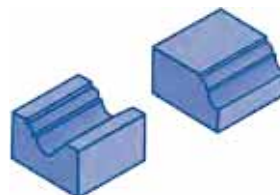
## FRESA PERFILADO

Profiling Router Cutter

Fraise Profilage



MD  
HM  
Carbure



| D<br>mm | d<br>mm | L<br>mm | H<br>mm | R    |   | Nº<br>Art. | €     |
|---------|---------|---------|---------|------|---|------------|-------|
| 38,10   | 8,00    | 50      | 17,5    | 6,35 | 1 | 36348      | 39,94 |

Ref. **1684**

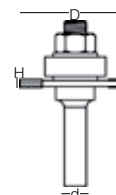
## FRESA RANURADO

Grooving Router Cutter

Fraise Rainurage



MD  
HM  
Carbure



| D<br>mm | d<br>mm | L<br>mm | H<br>mm |   | Nº<br>Art. | €     |
|---------|---------|---------|---------|---|------------|-------|
| 40,00   | 8,00    | 60,8    | 1,5     | 1 | 36350      | 24,99 |
| 40,00   | 8,00    | 60,8    | 2,0     | 1 | 36351      | 24,99 |
| 40,00   | 8,00    | 60,8    | 2,5     | 1 | 36352      | 24,99 |
| 40,00   | 8,00    | 60,8    | 3,0     | 1 | 36353      | 24,99 |
| 40,00   | 8,00    | 60,8    | 3,5     | 1 | 36354      | 24,99 |
| 40,00   | 8,00    | 60,8    | 4,0     | 1 | 36355      | 24,99 |



# Display 64

## FRESAS MADERA

Wood Router Cutters

Fraises Bois



66  
cm

39 cm

|                       |                       |                       |                       |                       |                       |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Art. 36315<br>ø 6,00  | Art. 36316<br>ø 8,00  | Art. 36317<br>ø 10,00 | Art. 36318<br>ø 12,00 | Art. 36319<br>ø 14,00 | Art. 36320<br>ø 16,00 |
| Art. 36344<br>ø 31,70 | Art. 36349<br>ø 26,00 | Art. 37431<br>ø 35,00 | Art. 36345<br>ø 8,00  | Art. 36340<br>ø 14,00 | Art. 36341<br>ø 11,00 |
| Art. 36342<br>ø 14,30 | Art. 36356<br>ø 32,00 | Art. 36328<br>ø 9,50  | Art. 36329<br>ø 12,70 | Art. 36330<br>ø 31,70 | Art. 36331<br>ø 38,10 |
| Art. 36333<br>ø 28,70 | Art. 36334<br>ø 31,70 | Art. 36335<br>ø 38,10 | Art. 36337<br>ø 28,70 | Art. 36338<br>ø 31,70 | Art. 36339<br>ø 38,10 |
| Art. 36346<br>ø 31,70 | Art. 36347<br>ø 38,10 | Art. 36348<br>ø 38,10 | Art. 36343<br>ø 12,70 | Art. 36353<br>40x3    | Art. 36355<br>40x4    |

Nº Art. 39710: 1066,27 €

Ref. **1639**

## AVELLANADOR MADERA

Shell Drill

Foret Outil-Lamer-Chambres Bois

no  
ve  
dad  
new



HSS



| D-<br>mm | D+<br>mm |   | Nº<br>Art. | €    |
|----------|----------|---|------------|------|
| 3        | 16       | 1 | 56011      | 6,31 |
| 4        | 16       | 1 | 56012      | 6,31 |
| 5        | 16       | 1 | 56013      | 6,31 |
| 6        | 16       | 1 | 56014      | 6,31 |
| 8        | 20       | 1 | 56016      | 7,85 |
| 10       | 20       | 1 | 56018      | 7,85 |

Ref. **1615**

## BROCA-FRESA INSTALADORES

Installing Forstner Bit  
Mèche à Façonner Installateurs



Diente MD  
Carbide Tipped  
Dent Carbure



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      | 11,80 |
| 18      | 8       | 90      | 10,00   | 1 | 23040      | 14,01 |
| 20      | 8       | 90      | 12,50   | 1 | 23041      | 15,41 |
| 22      | 8       | 90      | 12,50   | 1 | 23042      | 16,82 |

| D<br>mm | d<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €     |
|---------|---------|---------|---------|---|------------|-------|
| 24      | 8       | 90      | 12,50   | 1 | 23043      | 18,54 |
| 25      | 8       | 90      | 12,50   | 1 | 23044      | 19,32 |
| 26      | 8       | 90      | 14,50   | 1 | 23045      | 20,03 |
| 30      | 8       | 90      | 14,50   | 1 | 23046      | 21,97 |

| D<br>mm | d<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €     |
|---------|---------|---------|---------|---|------------|-------|
| 35      | 10      | 90      | 14,50   | 1 | 23047      | 26,36 |
| 40      | 10      | 90      | 16,50   | 1 | 23048      | 30,01 |

Ref. **1620**

## BROCA-FRESA MADERA

WOOD Forstner Bit  
Mèche a Façonner BOIS



HSS



Apropiado para todo tipo de maderas naturales, blandas y nobles.

Ideal for use in all natural soft and hard woods.

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      | 8       | 90      | 8,20    | 1 | 18189      | 5,21 |
| 12      | 8       | 90      | 8,60    | 1 | 18190      | 5,37 |
| 14      | 8       | 90      | 9,00    | 1 | 18192      | 5,66 |
| 15      | 8       | 90      | 9,20    | 1 | 18193      | 5,74 |
| 16      | 8       | 90      | 9,50    | 1 | 18195      | 5,83 |
| 18      | 8       | 90      | 10,00   | 1 | 18196      | 6,96 |
| 20      | 8       | 90      | 10,30   | 1 | 18198      | 6,44 |
| 22      | 8       | 90      | 10,80   | 1 | 18199      | 7,33 |

| D<br>mm | d<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €     |
|---------|---------|---------|---------|---|------------|-------|
| 24      | 8       | 90      | 11,30   | 1 | 18201      | 7,50  |
| 25      | 8       | 90      | 11,50   | 1 | 18202      | 7,63  |
| 26      | 8       | 90      | 11,70   | 1 | 18204      | 8,25  |
| 28      | 8       | 90      | 12,20   | 1 | 18205      | 7,14  |
| 30      | 8       | 90      | 12,60   | 1 | 18206      | 7,14  |
| 32      | 10      | 90      | 13,00   | 1 | 18207      | 9,38  |
| 34      | 10      | 90      | 13,50   | 1 | 18208      | 9,89  |
| 35      | 10      | 90      | 13,70   | 1 | 18210      | 10,22 |

| D<br>mm | d<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €     |
|---------|---------|---------|---------|---|------------|-------|
| 36      | 10      | 90      | 14,00   | 1 | 18211      | 10,52 |
| 38      | 10      | 90      | 14,30   | 1 | 18212      | 11,07 |
| 40      | 10      | 90      | 14,80   | 1 | 18213      | 11,59 |
| 45      | 10      | 90      | 15,80   | 1 | 18214      | 13,02 |
| 50      | 10      | 90      | 17,20   | 1 | 18216      | 14,16 |

Ref. **1625**

## BROCA-FRESA BISAGRAS

Hinge Forstner Bit  
Mèche à Façonner 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      | 18,20 |
| 30      | 8       | 54      | 8,00    | 1 | 24477      | 18,20 |
| 35      | 8       | 54      | 8,20    | 1 | 24478      | 18,64 |



Ref. **7009**

**BROCA-FRESA ROTOZIP® / ROTOCUT® CONSTRUCCIÓN-MADERA**  
**CONSTRUCTION-WOOD Rotozip® / Rotocut® Cutout Bit**  
 Foret-Fraise Rotozip® / Rotocut® CONSTRUCTION-BOIS



MD  
HM  
Carbure

Argamasa, Azulejos Cerámica,  
Estuco, Mármol, Placas Cemento,  
Yeso

Concrete Panels, Ceramic Tiles,  
Marble, Mortar, Plaster, Stucco

Mortier, Carreaux Faïence  
Céramique, Stuc, Marbre, Plaques  
de ciment, Plâtre

| D<br>mm | Pulgadas<br>Inches<br>Pouces |   | Nº Art. | €     |
|---------|------------------------------|---|---------|-------|
| 3,18    | 1/8                          | 1 | 18933   | 15,89 |
| 6,35    | 1/4                          | 1 | 18939   | 26,63 |

Ref. **7002**

**BROCA-FRESA ROTOZIP® / ROTOCUT® CONSTRUCCIÓN-MADERA**  
**CONSTRUCTION-WOOD Rotozip® / Rotocut® Cutout Bit**  
 Foret-Fraise Rotozip® / Rotocut® CONSTRUCTION-BOIS



HSS

Pladur

Escayola  
Drywall  
Plâtre

Escayola, Muros Prefabricados

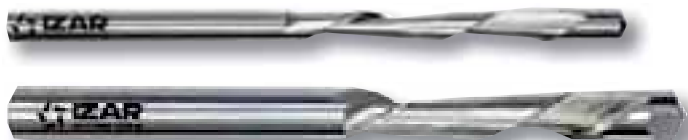
Drywall, Prefabricated Walls

Plâtre, Murs Préfabriqués

| D<br>mm | Pulgadas<br>Inches<br>Pouces |   | Nº Art. | €    |
|---------|------------------------------|---|---------|------|
| 3,18    | 1/8                          | 1 | 18927   | 3,96 |

Ref. **7003**

**BROCA-FRESA ROTOZIP® / ROTOCUT® CONSTRUCCIÓN-MADERA**  
**CONSTRUCTION-WOOD Rotozip® / Rotocut® Cutout Bit**  
**Foret-Fraise Rotozip® / Rotocut® CONSTRUCTION-BOIS**



HSS

Auto-center

Escayola, Espuma, Muros  
 Prefabricados

Drywall, Foam, Prefabricated  
 Walls

Plâtre, Mousse, Murs Préfabriqués

| D<br>mm | Pulgadas<br>Inches<br>Pouces |  | N° Art. | €    |
|---------|------------------------------|-----------------------------------------------------------------------------------|---------|------|
| 3,18    | 1/8                          | 2                                                                                 | 19002   | 3,96 |
| 6,35    | 1/4                          | 1                                                                                 | 18930   | 8,88 |

Ref. **7001**

**BROCA-FRESA ROTOZIP® / ROTOCUT® CONSTRUCCIÓN-MADERA**  
**CONSTRUCTION-WOOD Rotozip® / Rotocut® Cutout Bit**  
**Foret-Fraise Rotozip® / Rotocut® CONSTRUCTION-BOIS**



HSS



Aglomerado, Aluminio, Espuma,  
 Fibra Vidrio, Laminados, Plástico,  
 Plexiglas, 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<br>Pouces |  | N° Art. | €    |
|---------|------------------------------|-------------------------------------------------------------------------------------|---------|------|
| 3,18    | 1/8                          | 2                                                                                   | 18999   | 3,96 |

## **HERRAMIENTAS MANGO HEXAGONAL**

HEX Shank Tools

Outils Queue Hexagonale

### **BROCAS**

Drill Bits

Forets

178

### **PUNTAS ATORNILLAR**

Screwdriver Bits

Embouts Visage

180







# BROCAS

## Drill Bits

### Forets

Ref. **1611**

### BROCA METAL MANGO HEXAGONAL

Hex Shank Metal Drill Bit  
Foret Metal Queue Hexagonale



HSS



1/4"  
DIN E6.3

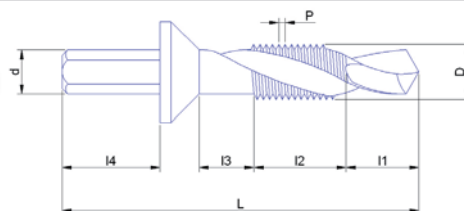
| D    | L  | I  | d    |   | N°    | €    |
|------|----|----|------|---|-------|------|
| mm   | mm | mm | mm   |   | Art.  |      |
| 2,00 | 47 | 16 | 6,35 | 1 | 56512 | 3,18 |
| 3,00 | 47 | 16 | 6,35 | 1 | 15864 | 3,18 |
| 3,20 | 47 | 16 | 6,35 | 1 | 56515 | 3,18 |
| 3,25 | 47 | 16 | 6,35 | 1 | 15865 | 3,18 |
| 3,50 | 47 | 16 | 6,35 | 1 | 15892 | 2,96 |
| 4,00 | 53 | 20 | 6,35 | 1 | 15894 | 2,96 |
| 4,20 | 53 | 20 | 6,35 | 1 | 56516 | 2,96 |
| 4,25 | 53 | 20 | 6,35 | 1 | 15898 | 2,96 |

| D    | L  | I  | d    |   | N°    | €    |
|------|----|----|------|---|-------|------|
| mm   | mm | mm | mm   |   | Art.  |      |
| 4,50 | 53 | 20 | 6,35 | 1 | 15899 | 2,81 |
| 5,00 | 59 | 26 | 6,35 | 1 | 15900 | 2,81 |
| 5,50 | 59 | 26 | 6,35 | 1 | 15902 | 2,80 |
| 6,00 | 59 | 26 | 6,35 | 1 | 15903 | 2,80 |
| 6,50 | 59 | 26 | 6,35 | 1 | 15904 | 2,80 |
| 7,00 | 59 | 26 | 6,35 | 1 | 15905 | 3,44 |
| 8,00 | 59 | 32 | 6,35 | 1 | 15906 | 3,44 |

Ref. **1610**

### BROCA-MACHO-AVELLANADOR

Combi Tap With Countersink  
Outil Multi-Fonction



HSS

DIN  
3126



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



| D   | L  | I1 | I2 | I3 | I4 | d    | P    | Avellanado<br>Counterboring<br>Fraisage |   | N°    | €     |
|-----|----|----|----|----|----|------|------|-----------------------------------------|---|-------|-------|
| mm  | mm | mm | mm | mm | mm | mm   |      | mm                                      |   | Art.  |       |
| M3  | 36 | 5  | 8  | 7  | 12 | 6,35 | 0,50 | 7,00                                    | 1 | 12567 | 16,62 |
| M4  | 39 | 5  | 11 | 8  | 12 | 6,35 | 0,70 | 7,00                                    | 1 | 12571 | 16,62 |
| M5  | 41 | 7  | 11 | 9  | 12 | 6,35 | 0,80 | 7,00                                    | 1 | 12577 | 18,62 |
| M6  | 44 | 8  | 11 | 10 | 12 | 6,35 | 1,00 | 7,00                                    | 1 | 10971 | 25,17 |
| M8  | 50 | 11 | 15 | 10 | 12 | 6,35 | 1,25 | 9,00                                    | 1 | 12582 | 31,69 |
| M10 | 59 | 12 | 21 | 10 | 12 | 6,35 | 1,50 | 11,00                                   | 1 | 12583 | 43,06 |

no  
ve  
dad!  
new



Cont. Ø

N° Art.

€

7 Pcs: M3-M4-M5-M6-  
M8-M10-Adapt.

11025 166,33

Ref. **1601**

## BROCA PARED

Masonry Drill Bit  
Foret Maçonnerie

no  
ve  
dad  
new



MD/HM  
TCT



| D<br>mm | L<br>mm | I<br>mm | d<br>mm |   | Nº<br>Art. | €    |
|---------|---------|---------|---------|---|------------|------|
| 4,00    | 75      | 40      | 6,35    | 1 | 55997      | 2,29 |
| 5,00    | 85      | 50      | 6,35    | 1 | 55998      | 2,42 |
| 6,00    | 100     | 60      | 6,35    | 1 | 55999      | 2,60 |
| 8,00    | 120     | 80      | 6,35    | 1 | 56000      | 3,48 |
| 10,00   | 120     | 80      | 6,35    | 1 | 56001      | 4,37 |

Ref. **1621**

## BROCA MADERA

Wood Drill Bit  
Foret Bois

no  
ve  
dad  
new



CrV



Maderas Blandas  
Soft Wood  
Bois tendre

| D<br>mm | L<br>mm | I<br>mm | d<br>mm |   | Nº<br>Art. | €    |
|---------|---------|---------|---------|---|------------|------|
| 3,00    | 47      | 16      | 6,35    | 1 | 56002      | 2,79 |
| 4,00    | 53      | 20      | 6,35    | 1 | 56004      | 2,57 |
| 5,00    | 59      | 26      | 6,35    | 1 | 56005      | 2,46 |
| 6,00    | 59      | 26      | 6,35    | 1 | 56006      | 2,36 |
| 8,00    | 59      | 32      | 6,35    | 1 | 56008      | 2,53 |



# PUNTAS ATORNILLAR

Screwdriver Bits

Embouts Visage

Ref. **1520**

## PUNTA ATORNILLAR

Screwdriver Bit

Embout Vissage



Std.

DIN  
3126



Magnético

| Tipo<br>Type | D<br>mm | L<br>mm | d<br>mm |   | Nº<br>Art. | €    |
|--------------|---------|---------|---------|---|------------|------|
| HEX          | 3       | 25      | 6,35    | 5 | 33154      | 2,45 |
| HEX          | 4       | 25      | 6,35    | 5 | 33155      | 2,45 |
| HEX          | 5       | 25      | 6,35    | 5 | 33156      | 2,45 |
| PH           | 1       | 25      | 6,35    | 5 | 33138      | 2,45 |
| PH           | 1       | 50      | 6,35    | 3 | 33157      | 2,60 |
| PH           | 2       | 25      | 6,35    | 5 | 33139      | 2,45 |
| PH           | 2       | 50      | 6,35    | 3 | 33158      | 2,60 |
| PH           | 3       | 25      | 6,35    | 5 | 33140      | 2,45 |
| PH           | 3       | 50      | 6,35    | 3 | 33159      | 2,60 |
| PZ           | 1       | 25      | 6,35    | 5 | 33141      | 2,45 |
| PZ           | 1       | 50      | 6,35    | 3 | 33160      | 2,60 |
| PZ           | 2       | 25      | 6,35    | 5 | 33142      | 2,45 |
| PZ           | 2       | 50      | 6,35    | 3 | 33161      | 2,60 |
| PZ           | 3       | 25      | 6,35    | 5 | 33143      | 2,45 |
| PZ           | 3       | 50      | 6,35    | 3 | 33162      | 2,60 |
| SL           | 4,5x0,6 | 25      | 6,35    | 5 | 33151      | 2,45 |
| SL           | 4,5x0,6 | 50      | 6,35    | 3 | 33170      | 2,60 |
| SL           | 5,5x0,8 | 25      | 6,35    | 5 | 33152      | 2,45 |
| SL           | 5,5x0,8 | 50      | 6,35    | 3 | 33171      | 2,60 |
| SL           | 6,5x1,2 | 25      | 6,35    | 5 | 33153      | 2,45 |
| SL           | 6,5x1,2 | 50      | 6,35    | 3 | 33172      | 2,60 |
| Tx           | 10      | 25      | 6,35    | 5 | 33144      | 2,56 |
| Tx           | 10      | 50      | 6,35    | 3 | 33163      | 2,74 |
| Tx           | 15      | 25      | 6,35    | 5 | 33145      | 2,56 |
| Tx           | 15      | 50      | 6,35    | 3 | 33164      | 2,74 |
| Tx           | 20      | 25      | 6,35    | 5 | 33146      | 2,56 |
| Tx           | 20      | 50      | 6,35    | 3 | 33165      | 2,74 |
| Tx           | 25      | 25      | 6,35    | 5 | 33147      | 2,56 |
| Tx           | 25      | 50      | 6,35    | 3 | 33166      | 2,74 |
| Tx           | 27      | 25      | 6,35    | 5 | 33148      | 2,56 |
| Tx           | 27      | 50      | 6,35    | 3 | 33167      | 2,74 |
| Tx           | 30      | 25      | 6,35    | 5 | 33149      | 2,56 |
| Tx           | 30      | 50      | 6,35    | 3 | 33168      | 2,74 |
| Tx           | 40      | 25      | 6,35    | 5 | 33150      | 2,56 |
| Tx           | 40      | 50      | 6,35    | 3 | 33169      | 2,74 |
| Adapt.       | 6       | 48      | 6,35    | 1 | 42466      | 3,33 |
| Adapt.       | 7       | 48      | 6,35    | 1 | 42472      | 3,33 |
| Adapt.       | 8       | 48      | 6,35    | 1 | 42475      | 3,33 |
| Adapt.       | 10      | 48      | 6,35    | 1 | 42478      | 3,55 |
| Adapt.       | 12      | 48      | 6,35    | 1 | 42481      | 3,55 |
| Adapt.       | 13      | 48      | 6,35    | 1 | 42483      | 3,55 |



| Tipo<br>Type | D<br>mm                                          | L<br>mm | d<br>mm |  | Nº<br>Art. | €    |
|--------------|--------------------------------------------------|---------|---------|-------------------------------------------------------------------------------------|------------|------|
| PH-PZ        | PH 1-2-3 PZ 1-2-3                                | 25      | 6,35    | 7                                                                                   | 33748      | 8,24 |
| Tx           | 10-15-20-25-30-40                                | 25      | 6,35    | 7                                                                                   | 33751      | 8,44 |
| PH-PZ-SL     | PH 1-2-3 PZ 1-2-3 SL 4,5x0,6 - 5,5x0,8 - 6,5-1,2 | 25      | 6,35    | 12                                                                                  | 33754      | 9,57 |

## Display 63

### PUNTA ATORNILLAR

Screwdriver Bit

Embout Vissage



|                     |     |        |        |        |        |        |        |
|---------------------|-----|--------|--------|--------|--------|--------|--------|
| Ref.<br>1520<br>L25 | ø   | HEX 3  | HEX 4  | HEX 5  | PH 1   | PH 2   | PH 3   |
|                     | Pcs | 5      | 5      | 5      | 5      | 5      | 5      |
|                     | ø   | PZ 1   | PZ 2   | PZ 3   | SL 4,5 | SL 5,5 | SL 6,5 |
| Ref.<br>1520<br>L50 | Pcs | 5      | 5      | 5      | 5      | 5      | 5      |
|                     | ø   | T 10   | T 15   | T 20   | T 25   | T 30   | T 40   |
|                     | Pcs | 5      | 5      | 5      | 5      | 5      | 5      |
|                     | ø   | PH 1   | PH 2   | PH 3   | PZ 1   | PZ 2   | PZ 3   |
|                     | Pcs | 3      | 3      | 3      | 3      | 3      | 3      |
|                     | ø   | SL 4,5 | SL 5,5 | SL 6,5 | T 25   | T 30   | T 40   |
|                     | Pcs | 3      | 3      | 3      | 3      | 3      | 3      |

Ref. 4995 - Nº Art. 37502: 318,66 €



Ref. **1521****PUNTA ATORNILLAR PRO**PRO Screwdriver Bit  
Embout Vissage PRO

Torsion

DIN  
3126

| Tipo<br>Type | D<br>mm | L<br>mm | d<br>mm |   | Nº<br>Art. | €    |
|--------------|---------|---------|---------|---|------------|------|
| PH           | 1       | 25      | 6,35    | 5 | 33173      | 3,21 |
| PH           | 1       | 50      | 6,35    | 3 | 33192      | 5,92 |
| PH           | 2       | 25      | 6,35    | 5 | 33174      | 3,21 |
| PH           | 2       | 50      | 6,35    | 3 | 33193      | 5,92 |
| PH           | 3       | 25      | 6,35    | 5 | 33175      | 3,21 |
| PH           | 3       | 50      | 6,35    | 3 | 33194      | 5,92 |
| PZ           | 1       | 25      | 6,35    | 5 | 33176      | 3,21 |
| PZ           | 1       | 50      | 6,35    | 3 | 33195      | 5,92 |
| PZ           | 2       | 25      | 6,35    | 5 | 33177      | 3,21 |
| PZ           | 2       | 50      | 6,35    | 3 | 33196      | 5,92 |
| PZ           | 3       | 25      | 6,35    | 5 | 33178      | 3,21 |
| PZ           | 3       | 50      | 6,35    | 3 | 33197      | 5,92 |
| SL           | 4,5x0,6 | 25      | 6,35    | 5 | 33186      | 5,52 |
| SL           | 4,5x0,6 | 50      | 6,35    | 3 | 33204      | 7,68 |
| SL           | 5,5x0,8 | 25      | 6,35    | 5 | 33187      | 5,52 |
| SL           | 5,5x0,8 | 50      | 6,35    | 3 | 33205      | 7,68 |
| SL           | 6,5x1,2 | 25      | 6,35    | 5 | 33188      | 5,52 |
| SL           | 6,5x1,2 | 50      | 6,35    | 3 | 33206      | 7,68 |
| Tx           | 10      | 25      | 6,35    | 5 | 33179      | 5,20 |
| Tx           | 10      | 50      | 6,35    | 3 | 33198      | 7,35 |
| Tx           | 15      | 25      | 6,35    | 5 | 33180      | 5,20 |
| Tx           | 15      | 50      | 6,35    | 3 | 33199      | 7,35 |
| Tx           | 20      | 25      | 6,35    | 5 | 33181      | 5,20 |
| Tx           | 20      | 50      | 6,35    | 3 | 33200      | 7,35 |
| Tx           | 25      | 25      | 6,35    | 5 | 33182      | 5,20 |
| Tx           | 25      | 50      | 6,35    | 3 | 33201      | 7,35 |
| Tx           | 27      | 25      | 6,35    | 5 | 33183      | 5,20 |
| Tx           | 27      | 50      | 6,35    | 3 | 34144      | 7,35 |
| Tx           | 30      | 25      | 6,35    | 5 | 33184      | 5,20 |
| Tx           | 30      | 50      | 6,35    | 3 | 33202      | 7,35 |
| Tx           | 40      | 25      | 6,35    | 5 | 33185      | 5,20 |
| Tx           | 40      | 50      | 6,35    | 3 | 33203      | 7,35 |

Ref. **1521**

| Tipo<br>Type | D<br>mm           | L<br>mm | d<br>mm |   | Nº<br>Art. | €     |
|--------------|-------------------|---------|---------|---|------------|-------|
| PH-PZ        | PH 1-2-3 PZ 1-2-3 | 25      | 6,35    | 7 | 33756      | 8,74  |
| Tx           | 10-15-20-25-30-40 | 25      | 6,35    | 7 | 33758      | 11,25 |



Ref. **1522**

## PUNTA ATORNILLAR SUPERIOR

Superior Screwdriver Bit  
Embout Vissage Supérieur



ISO  
TIN

DIN  
3126



| Tipo<br>Type | D<br>mm | L<br>mm | d<br>mm |   | Nº<br>Art. | €    |
|--------------|---------|---------|---------|---|------------|------|
| PH           | 1       | 25      | 6,35    | 5 | 33207      | 6,87 |
| PH           | 2       | 25      | 6,35    | 5 | 33208      | 6,87 |
| PH           | 3       | 25      | 6,35    | 5 | 33209      | 6,87 |



| Tipo<br>Type | D<br>mm | L<br>mm | d<br>mm |   | Nº<br>Art. | €    |
|--------------|---------|---------|---------|---|------------|------|
| PZ           | 1       | 25      | 6,35    | 5 | 33210      | 6,87 |
| PZ           | 2       | 25      | 6,35    | 5 | 33211      | 6,87 |
| PZ           | 3       | 25      | 6,35    | 5 | 33212      | 6,87 |



| Tipo<br>Type | D<br>mm | L<br>mm | d<br>mm |   | Nº<br>Art. | €    |
|--------------|---------|---------|---------|---|------------|------|
| SL           | 4,5x0,6 | 25      | 6,35    | 5 | 33220      | 9,15 |
| SL           | 5,5x0,8 | 25      | 6,35    | 5 | 33221      | 9,15 |
| SL           | 6,5x1,2 | 25      | 6,35    | 5 | 33222      | 9,15 |



| Tipo<br>Type | D<br>mm | L<br>mm | d<br>mm |   | Nº<br>Art. | €    |
|--------------|---------|---------|---------|---|------------|------|
| Tx           | 10      | 25      | 6,35    | 5 | 33213      | 8,98 |
| Tx           | 15      | 25      | 6,35    | 5 | 33214      | 8,98 |
| Tx           | 20      | 25      | 6,35    | 5 | 33215      | 8,98 |
| Tx           | 25      | 25      | 6,35    | 5 | 33216      | 8,98 |
| Tx           | 27      | 25      | 6,35    | 5 | 33217      | 8,98 |
| Tx           | 30      | 25      | 6,35    | 5 | 33218      | 8,98 |
| Tx           | 40      | 25      | 6,35    | 5 | 33219      | 8,98 |

Ref. **1522**



| Tipo<br>Type | D<br>mm           | L<br>mm | d<br>mm |   | Nº<br>Art. | €     |
|--------------|-------------------|---------|---------|---|------------|-------|
| PH-PZ        | PH 1-2-3 PZ 1-2-3 | 25      | 6,35    | 7 | 33759      | 13,21 |
| Tx           | 10-15-20-25-30-40 | 25      | 6,35    | 7 | 33761      | 27,93 |

Ref. **1529****ADAPTADORES**Adaptors  
Adaptateurs

| Tipo<br>Type |  | Nº<br>Art. | €           |
|--------------|--|------------|-------------|
| Quick Lock   |  | 1 33746    | <b>6,46</b> |



| Tipo<br>Type |  | Nº<br>Art. | €            |
|--------------|--|------------|--------------|
| SDS plus     |  | 1 33745    | <b>17,42</b> |



| Tipo<br>Type  |  | Nº<br>Art. | €           |
|---------------|--|------------|-------------|
| Magnético IND |  | 1 33747    | <b>4,42</b> |



| Tipo<br>Type  |  | Nº<br>Art. | €           |
|---------------|--|------------|-------------|
| Magnético STD |  | 1 34546    | <b>3,21</b> |

Ref. **1500****BROCAS - PUNTAS ATORNILLAR**Screwdriver Bits – Drill Bits  
Forets – Embouts Visage

20 Pcs.

**Puntas 1/4" (25 mm) T**  
Bits / Embouts  
TX10 - TX15 - TX20 - TX25 - TX30



**Puntas 1/4" (25 mm) PH-PZ**  
Bits / Embouts  
PH1 - PH2 - PZ1 - PZ2 - PZ3



**Brocas Metal 1/4"**  
Metal Drills / Forets  
ø 3 - 3,5 - 4 - 5 - 6 mm



**Puntas 1/4" (50 mm) HEX-SL**  
Bits / Embouts  
HEX4 - SL4,5 - SL5,5 - SL6,5 - Quick Lock



| Uds.<br>Pack | Nº<br>Art. | €<br>1 Set*  |
|--------------|------------|--------------|
| 10           | 18225      | <b>31,11</b> |

\* Pedido mínimo 10 Sets

\* Minimal order 10 Sets

\* Commande minimale 10 Sets



## **SIERRAS**

Saw Blades

Lames Scies

### **SIERRAS CALAR**

Jig Saw Blades

Lames Scies Sauteuses

188

### **SIERRAS SABLE**

Sabre Saw Blades

Lames Scie Sabre

201



# CUADRO USO SIERRAS CALAR Y SABLE

Jig & Sabre Saw Blade Use Table

Tableau Utilisation Lames Scies Sauteuses & Sabre

● Ideal - Ideal - Idéal

○ Adecuado - Suitable - Convenable



## Trabajos en Madera Wood Working Travaux Bois

## Trabajo

### SIERRAS DE CALAR

#### JIG SAW BLADES - LAMES SCIES SAUTEUSES

#### Madera Wood - Bois

#### Metal Metal

#### Especial Special

Ref. 1940 00010

00020

00030

00040

00050

00060

00070

00080

00090

00100

00110

00130

00140

00150

00160

Ref. 1910 00020

00040

00050

00060

00070

00090

00100

00110

00120

Ref. 1930 00010

00020

00030

Ref. 1945 00030

00040

00060

00070

00140

00150

Ref. 1915 00020

00070

00110

Ref. 1935 00030

Ref. 1950 00010

00020

00030

Ref. 1920 00020

00030

00050

Ref. 1960 00020

00030

00040

00060

### SIERRAS DE SABLE

#### SABRE SAW BLADES

#### Madera Wood

#### Metal Metal

#### Especial Special

### Tableau Utilisation Lames Scies Sauteuses & Sabre

187





# SIERRAS CALAR

## Jig Saw Blades

### Lames Scies Sauteuses

Ref. **1940**

#### BÁSICA DENTADO FRESADO

Basic Milled Teeth  
Basique Lame Fraisée



Mod. **00010**



T119B

274353

23631

48-42-4220

CV



TPI 12



Ideal plexiglas. Corte recto en maderas nobles / blandas, contrachapadas, planchas de fibra madera, plástico y material aislante.

Ideal for plexiglas. Straight cuts in hard-, soft-wood, plywood, insulation material, plastics.

Idéal Plexiglas, coupe droite en bois nobles et tendres, tôles de fibre de bois, plastique et matériel isolant.

| Mod.  | TPI | Diente<br>Tooth<br>mm | Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €    |
|-------|-----|-----------------------|------------|---------|---------|------------|------|
| 00010 | 12  | 2,0                   | 75         | 55      | 5       | 18668      | 3,84 |

Mod. **00020**



T119BO

274650

23646

48-42-5640

CV



TPI 12



Corte Curvo - Curved Cuts - Coupe Courbe

Para cortes curvados muy estrechos en maderas nobles / blandas, tablas de virutas prensadas, madera contrachapada, plásticos y plexiglas.

For narrow curve cutting in hard-, softwood, plywood, particleboard, plastics and plexiglas.

Pour coupes courbes très étroites sur bois nobles / tendres, tableaux de copeaux presses, bois, plastiques et Plexiglas.

| Mod.  | TPI | Diente<br>Tooth<br>mm | Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €    |
|-------|-----|-----------------------|------------|---------|---------|------------|------|
| 00020 | 12  | 2,0                   | 75         | 50      | 5       | 18669      | 5,72 |

Mod. **00030**



T111C

274071

23632

48-42-5200

CV



TPI 8



Para maderas nobles/blandas, plástico. Corte basto y rápido.

For fast, coarse cuts in hard-, softwood, plastics.

Pour bois nobles / tendres, plastiques, Coupe gros et rapide.

| Mod.  | TPI | Diente<br>Tooth<br>mm | Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €    |
|-------|-----|-----------------------|------------|---------|---------|------------|------|
| 00030 | 8   | 3,0                   | 100        | 75      | 5       | 18670      | 3,95 |

Ref. **1940****CORTE RÁPIDO DENT. RECTIFICADO POSICIONADO**

Speed Cut Ground &amp; Set Teeth

Coupe Rapide Lame Fraisée

Mod. **00040**

T144D

213116

23633

48-42-5421

CV



TPI 6



Ideal cortes rectos, limpios y muy rápidos en maderas nobles / blandas y planchas fibra madera.

Ideal for straight, parallel cuts. Very fast, clean cuts in hard-, softwood and particleboard.

Idéal coupes droites, propres et très rapides sur bois nobles / tendres et tôles fibres de bois.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | IZAR | Nº<br>Art. | €    |
|-------|-----|----------------------------|---------|---------|------|------------|------|
| 00040 | 6   | 4,0                        | 100     | 75      | 5    | 18671      | 5,75 |

Ref. **1940****CORTE RÁPIDO DENT. RECTIFICADO POSICIONADO**

Speed Cut Ground &amp; Set Teeth

Coupe Rapide Lame Fraisée

Mod. **00050**

T244D

23649

23646

48-42-5512

CV

Corte Curvo - Curved Cuts - Coupe Courbe



TPI 6



Cortes limpios y muy rápidos en maderas nobles / blandas y planchas de fibra de madera.

Very fast, clean cuts in hard-, softwood and particleboard.

Coupes propres et très rapides sur bois nobles / tendres et tôles de fibre de bois.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | IZAR | Nº<br>Art. | €    |
|-------|-----|----------------------------|---------|---------|------|------------|------|
| 00050 | 6   | 4,0                        | 100     | 75      | 5    | 18672      | 5,96 |

Ref. **1940****CORTE LIMPIO DENTADO RECTIFICADO CÓNICO**

Clean Cut Ground &amp; Tapered Teeth

Coupe Propre Lame Fraisée

Mod. **00060**

T101B

254061

23634

F450S

48-42-5240

CV



TPI 10



Ideal para cortes rectos y finos en maderas nobles / blandas, madera contrachapada, planchas de fibra de madera y plásticos

Ideal for straight, fine cuts in hard-, softwood, plywood, laminated particleboard and plastics.

Idéal pour Coupes droites et fines en bois nobles / tendres, tôles de fibres de bois et plastiques.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | IZAR | Nº<br>Art. | €    |
|-------|-----|----------------------------|---------|---------|------|------------|------|
| 00060 | 10  | 2,5                        | 100     | 75      | 5    | 18673      | 6,90 |

Ref. **1940****CORTE LIMPIO DENTADO RECTIFICADO CÓNICO**

Clean Cut Ground &amp; Tapered Teeth

Coupe Propre Lame Fraisée

Mod. **00070**

T101BR

23650

CF450SR

48-42-5540

CV



TPI 10



Para cortes sin astillas en maderas blandas / nobles, contrachapadas, planchas fibra madera y plásticos.

For splinter-free cutting of hard-, softwood, plywood, laminated particleboard and plastics.

Pour coupes sans éclats sur bois tendres / nobles, tôles de fibre de bois et plastiques.

| Mod.  | TPI | Diente<br>Tooth<br>mm | Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €    |
|-------|-----|-----------------------|------------|---------|---------|---|------------|------|
| 00070 | 10  | 2,5                   |            | 100     | 75      | 5 | 18675      | 8,53 |

Ref. **1940****CORTE LIMPIO DENTADO RECTIFICADO CÓNICO**

Clean Cut Ground &amp; Tapered Teeth

Coupe Propre Lame Fraisée

Mod. **00080**

T101D

274351

23635

CF456S

48-42-5500

CV



TPI 6



Ideal corte rápido y recto en madera noble / blanda, contrachapada, planchas fibra madera y plásticos.

Ideal for fast, straight cuts in hard-, softwood, particleboard and plastics.

Idéal coupe rapide et droite sur bois tendres / nobles, tôles de fibre de bois et plastiques.

| Mod.  | TPI | Diente<br>Tooth<br>mm | Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €    |
|-------|-----|-----------------------|------------|---------|---------|---|------------|------|
| 00080 | 6   | 4,0                   |            | 100     | 75      | 5 | 18677      | 6,90 |

Ref. **1940****CORTE LIMPIO DENTADO RECTIFICADO CÓNICO**

Clean Cut Ground &amp; Tapered Teeth

Coupe Propre Lame Fraisée

Mod. **00090**

T301CD

CV



TPI 8



Para cortes rápidos y finos en maderas blandas / nobles, madera contrachapada,

planchas de fibra de madera y plásticos.

For fast, fine cuts of hard-, softwood, plywood, laminated particleboard and plastics.

Pour coupes rapides et fines sur bois tendres / nobles, tôles de fibre de bois et plastiques.

| Mod.  | TPI | Diente<br>Tooth<br>mm | Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €    |
|-------|-----|-----------------------|------------|---------|---------|---|------------|------|
| 00090 | 8   | 3,0                   |            | 115     | 90      | 5 | 18679      | 7,85 |

Ref. **1940****CORTE LIMPIO DENTADO RECTIFICADO CÓNICO**

Clean Cut Ground &amp; Tapered Teeth

Coupe Propre Lame Fraisée

Mod. **00100**

CV

Corte Curvo - Curved Cuts - Coupe Courbe



TPI 10



Filo especial para corte curvo y muy limpio en aglomerado y plástico.

Special blade for curve cutting. Very clean cuts in chipboard and plastics.

Filet spécial pour courbes et très propre en aggloméré et plastique.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €    |
|-------|-----|----------------------------|---------|---------|------------|------|
| 00100 | 10  | 2,5                        | 100     | 75      | 5 18680    | 9,49 |

Ref. **1940****RÁPIDO MADERA NOBLE DENT. RECTIF. POSICIO.**

Hard Wood Speed Cut Ground &amp; Set Teeth

Rapide Bois Noble Lame Fraisée

Mod. **00110**

T144DF

48-42-5302

Bimetal



TPI 6



Ideal cortes rectos y curvos, limpios y muy rápidos en maderas nobles / blandas, con clavos y planchas de fibra de madera.

Ideal for straight & curve, parallel cuts. Very fast, clean cuts in hard-, softwood, with nails & particleboard.

Idéal pour coupes droites et courbes, propres et très rapides sur bois nobles / tendres, avec clous et tôles de fibre de bois.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €     |
|-------|-----|----------------------------|---------|---------|------------|-------|
| 00110 | 6   | 4,0                        | 100     | 75      | 5 18681    | 11,99 |

Ref. **1940****RÁPIDO MADERA NOBLE DENT. RECTIF. POSICIO.**

Hard Wood Speed Cut Ground &amp; Set Teeth

Rapide Bois Noble Lame Fraisée

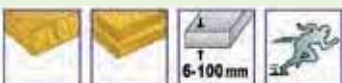
Mod. **00130**

T344D

CV



TPI 6



Ideal corte muy rápido, recto/paralelo, en madera noble / blanda, contrachapada, planchas fibra madera.

Ideal for straight, parallel cuts. Very fast cuts in hard-, softwood, plywood & laminated chipboard.

Idéal coupes très rapides, droites / parallèles sur bois nobles / tendres - tôles de fibre de bois.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €    |
|-------|-----|----------------------------|---------|---------|------------|------|
| 00130 | 6   | 4,0                        | 132     | 110     | 5 21889    | 6,23 |

Ref. **1940****RÁPIDO MADERA NOBLE DENT. RECTIF. POSICIO.**

Hard Wood Speed Cut Ground &amp; Set Teeth

Rapide Bois Noble Lame Fraisée

Mod. **00150**

T345XF

Bimetal



Para maderas nobles / blandas, maderas con clavos y tablero de cocina.

Hard-, softwood, wood with nails &amp; kitchenboards.

Pour bois nobles / tendres, bois avec clous et tableaux de cuisine.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |  | Nº<br>Art. | €     |
|-------|-----|----------------------------|---------|---------|--|------------|-------|
| 00150 | 6   | 2-4                        | 130     | 110     |  | 21891      | 16,10 |

Ref. **1940****ALTO RENDIMIENTO DENT. RECTIFICADO CÓNICO**

High Performance Ground &amp; Tapered Teeth

Haut Rendement Lame Rectifiée

Mod. **00140**

T234X

CV



Sierra de alto rendimiento y corte rápido y limpio sin astillas en maderas nobles / blandas de cualquier grosor, especial para planchas de fibra de madera revestidas.

High performance &amp; chip-free fast &amp; clean cutting in hard-, softwood (any thickness), special for covered laminated chipboard.

Scie haute performance et coupe rapide et propre sans éclats sur bois nobles / tendres de toute épaisseur, tôles de fibre de bois.

| Mod.  | TPI        | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |  | Nº<br>Art. | €     |
|-------|------------|----------------------------|---------|---------|--|------------|-------|
| 00140 | Progresivo |                            | 115     | 90      |  | 21890      | 12,56 |

Ref. **1940****CORTE CURVO EXTREMO DENTADO DOBLE FILO**

Extreme Curved Cuts Double Edged Teeth

Coupe Courbe Extreme Dent. Double Filet

Mod. **00160**

CV

Corte Curvo - Curved Cuts - Coupe Courbe



Sierra con dentado de doble filo para corte extremadamente curvo y delgado, sin astillas, en todo tipo de materiales relacionados con la madera. Corte rápido y limpio.

Double Edge Teeth blade for splinter-free cutting of extreme narrow curves in all kind of wood related materials. Fast and clean cutting.

Scie avec denture double filets pour une coupe fine avec des rayons extrêmement courts et sans éclats. Pour tous types de matériaux dérivés du bois. Coupe nette et rapide.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |  | Nº<br>Art. | €     |
|-------|-----|----------------------------|---------|---------|--|------------|-------|
| 00160 |     | 2,2-3,2                    |         | 115     |  | 34249      | 18,07 |



Ref. **1910****BÁSICA DENTADO FRESADO**

Basic Milled Teeth

Basique Lame Fraisée

Mod. **00020**

T118A

254063

23637

HSS



TPI 21



Materiales finos. Corte recto en metal, metales no ferrosos, acero laminado y aluminio.

Thin material. Straight cuts in metal, non-ferrous metal, sheet metal and aluminium.

Matériaux fins, coupe droite sur métaux, métaux pas ferritiques, aciers laminés et Aluminium.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €    |
|-------|-----|----------------------------|---------|---------|---|------------|------|
| 00020 | 21  | 1,2                        | 75      | 55      | 5 | 18685      | 6,89 |

Ref. **1910****BÁSICA DENTADO FRESADO**

Basic Milled Teeth

Basique Lame Fraisée

Mod. **00040**

T318A

274654

23629

HSS

Hoja Extra larga - Extra Long Blade - Lame Extra-Longue



TPI 21



Ideal material tipo sandwich. Corte recto en metal, metales no ferrosos, aluminio y material sandwich.

Ideal for sandwich-material. Straight cuts in metal, non-ferrous metal, aluminium & sandwich-material.

Idéal Matériaux tipe sandwich. Coupe droite métaux, métaux pas ferritiques, aluminium et matériaux sandwich.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €     |
|-------|-----|----------------------------|---------|---------|---|------------|-------|
| 00040 | 21  | 1,2                        | 132     | 110     | 5 | 18689      | 12,61 |

Ref. **1910****BÁSICA DENTADO FRESADO**

Basic Milled Teeth

Basique Lame Fraisée

Mod. **00050**

T118B

254064

23638

48-42-5101

HSS



TPI 12



Para materiales gruesos. Corte recto en metal, metales no ferrosos y aluminio.

Thick material. Straight cuts in metal, non-ferrous metal and aluminium.

Pour Matériaux gros. Coupe droite sur métaux, métaux pas ferritiques et aluminium.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €    |
|-------|-----|----------------------------|---------|---------|---|------------|------|
| 00050 | 12  | 2,0                        | 75      | 55      | 5 | 18690      | 6,89 |

Ref. **1910****BÁSICA DENTADO FRESADO**Basic Milled Teeth  
Basique Lame FraiséeMod. **00060**

T318B

274653

HSS



TPI 12



Ideal material tipo sandwich. Corte recto en metal, metales no ferrosos, aluminio y material sandwich.

Ideal sandwich-material. Straight cuts in metal, non-ferrous metal, aluminium & sandwich- material.

Idéal matériaux tipe sándwich. Coupe droite sur métaux, métaux pas ferritiques, aluminium et matériaux sándwich.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €     |
|-------|-----|----------------------------|---------|---------|---|------------|-------|
| 00060 | 12  | 2,0                        | 132     | 110     | 5 | 18691      | 10,53 |

Ref. **1910****FLEXIBLE DENTADO FRESADO**Flexible Milled Teeth  
Flexible Lame FraiséeMod. **00070**

T118AF

23971

324S

48-42-5161

Bimetal



TPI 21



Materiales finos. Corte recto (flexible y resistente) en acero blando, aluminio, metal no ferroso, Inox y plexiglas.

Thin materials: Straight cuts (flexible & resistant) in soft-steel, aluminium, non-ferrous metal, stainless & plexiglas.

Mat. Fins. Coupe droite (flexible et résistante) sur aciers tendres, aluminium, métaux pas ferritiques, INOX et plexiglas.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €    |
|-------|-----|----------------------------|---------|---------|---|------------|------|
| 00070 | 21  | 1,2                        | 75      | 55      | 5 | 18692      | 9,94 |

Ref. **1910****FLEXIBLE DENTADO FRESADO**Flexible Milled Teeth  
Flexible Lame FraiséeMod. **00090**

T118BF

23973

314S

48-42-5190

Bimetal



TPI 12



Materiales gruesos. Corte recto (flexible y resistente a rotura): metal, metal no ferroso, aluminio y plexiglas.

Thick materials. Straight cuts (flexible & break resistant) in metal, non-ferrous metal, aluminium & plexiglas.

Matériaux Gros. Coupe droite (flexible et résistante aux ruptures) en métaux, métaux pas ferritiques et aluminium.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €    |
|-------|-----|----------------------------|---------|---------|---|------------|------|
| 00090 | 12  | 2,0                        | 75      | 55      | 5 | 18694      | 9,94 |

Ref. **1910****FLEXIBLE DENTADO FRESADO**Flexible Milled Teeth  
Flexible Lame FraiséeMod. **00100**

T318BF

518S

48-42-5192

Bimetal

Hoja Extra larga - Extra Long Blade - Lame Extra-Longue



TPI 12



2-4 mm

Ideal materiales sandwich. Corte recto (flexible y resistente a rotura) en metal, metal no ferroso y aluminio.

Ideal for sandwich-material. Straight cuts (flexible &amp; break resistant) in metal, non-ferrous metal &amp; aluminium.

Idéal pour Matériaux sandwich. Coupe droite (flexible et résistante aux ruptures) en métaux, métaux pas ferritiques et aluminium.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €     |
|-------|-----|----------------------------|---------|---------|---|------------|-------|
| 00100 | 12  | 2,0                        | 132     | 110     | 5 | 18695      | 15,55 |

Ref. **1910****ALUMINIO DENTADO FRESADO**Aluminium Milled Teeth  
Aluminium Lame FraiséeMod. **00110**

T127D

254315

23639

HSS



TPI 8



4-10 mm

Ideal para aluminio. Corte recto y rápido en aluminio, metales no ferrosos, metal y fibra de vidrio.

Ideal for aluminium. Fast, straight cuts in aluminium, non-ferrous metal, metal and fiberglass.

Idéal pour aluminium, coupe droite et rapide sur aluminium, métaux pas ferritiques, métaux et fibre de verre.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €    |
|-------|-----|----------------------------|---------|---------|---|------------|------|
| 00110 | 8   | 3,0                        | 100     | 75      | 5 | 18696      | 8,60 |

Ref. **1910****INOX DENTADO MD**Stainless HM Teeth  
Inox Lame CarbureMod. **00120**novedad  
new

T118EHM

MD  
HM  
Carbure

TPI 18



2-5 mm

Ideal para INOX. Corte recto en acero blando, aluminio y metales no ferrosos. Gran rendimiento.

Ideal for Stainless. Straight cut in soft Steel, aluminium and non-ferrous metals. High performance.

Idéal pour Inox. Coupe parallèle dans l'acier tendre, aluminium, métaux non-ferreux. Longue durée.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €     |
|-------|-----|----------------------------|---------|---------|---|------------|-------|
| 00120 | 18  | 1,4                        | 75      | 50      | 3 | 56674      | 26,62 |

Ref. **1930****UNIVERSAL MADERA/METAL DENTADO FRESADO**

Universal Wood/Metal Milled Teeth

Universel Bois/Metal Lame Fraisée

Mod. **00010**

T345XF

Bimetal



TPI 6



Ideal para uso universal en maderas nobles / blandas, madera con clavos, acero, acero inoxidable, metales no ferrosos y aluminio.

Ideal for universal use in hard-, softwood, wood with nails, steel, stainless steel, non-ferrous metal and aluminium.

Idéal pour utilisation universelle sur bois nobles / tendres, bois avec clous, acier, acier INOX, métaux pas ferritiques, et aluminium.

| Mod.  | TPI | Diente<br>Tooth<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €     |
|-------|-----|-----------------------|---------|---------|------------|-------|
| 00010 | 6   | 1,8-2,5               | 132     | 110     | 5 18700    | 15,39 |

Ref. **1930****UNIVERSAL MADERA/METAL DENTADO FRESADO**

Universal Wood/Metal Milled Teeth

Universel Bois/Metal Lame Fraisée

Mod. **00020**

T127DF

23974

406S

48-42-5300

Bimetal



TPI 8



Corte recto y rápido (curva fácil, flexible y resistente a la rotura) en aluminio, plástico, metal no ferroso, metal, fibra vidrio, plásticos reforzados...

Fast & straight cuts (easy curving, flexible and break resistant) in aluminium, plastics, non-ferrous metal, metal, fibre-glass...

Coupe droite et rapide (courbe facile, flexible et résistante à la rupture) en aluminium, plastique, métaux pas ferritiques, métaux, fibre de verre, plastiques renforcés...

| Mod.  | TPI | Diente<br>Tooth<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €     |
|-------|-----|-----------------------|---------|---------|------------|-------|
| 00020 | 8   | 3,0                   | 100     | 75      | 5 18701    | 11,76 |

Ref. **1930****CERÁMICA POLVO MD**

Ceramic Carbide Powder

Ceramique Poudre Carbure

Mod. **00030**

T130RIFF

213231

23657

MD  
HM  
Carbure

Ideal para materiales abrasivos. Corte recto / curvo fino en cerámica, vidrio, piedra y plásticos.

Ideal for abrasive materials. Fine straight / curved cuts in ceramic, glass, stone and plastics.

Idéal pour matériaux abrasifs. Coupe droite / courbe fin en céramique, verre, pierre et plastiques.

| Mod.  | TPI | Diente<br>Tooth<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €    |
|-------|-----|-----------------------|---------|---------|------------|------|
| 00030 |     |                       | 75      | 55      | 1 18702    | 6,21 |

Ref. **1945****BÁSICA DENTADO FRESADO**

Basic Milled Teeth

Basique Lame Fraisée

Mod. **00030**

U111C

T318BF

CV



Para maderas nobles / blandas, plástico. Corte basto y rápido

For fast, coarse cuts in hard-, softwood, plastics.

Pour bois nobles/tendres. Coupe gros et rapide.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €    |
|-------|-----|----------------------------|---------|---------|---|------------|------|
| 00030 | 8   | 3,0                        | 100     | 75      | 5 | 21883      | 4,73 |

Ref. **1945****CORTE RÁPIDO DENT. RECTIFICADO POSICIONADO**

Speed Cut Ground &amp; Set Teeth

Coupe Rapide Lame Rectifiée

Mod. **00040**

U144D

A2207

CV



Ideal cortes rectos, limpios y muy rápidos en maderas nobles / blandas y planchas fibra madera.

Ideal for straight, parallel cuts. Very fast, clean cuts in hard-, softwood and particleboard.

Idéal coupes droites, propres et très rapides en bois nobles / tendres et tôles de fibre de bois.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €    |
|-------|-----|----------------------------|---------|---------|---|------------|------|
| 00040 | 6   | 4,0                        | 100     | 75      | 5 | 21884      | 6,59 |

Ref. **1945****CORTE LIMPIO DENTADO RECTIFICADO CÓNICO**

Clean Cut Ground &amp; Tapered Teeth

Coupe Propre Lame Rectifiée

Mod. **00060**

U101B

A5035-A2201

CV



Ideal para cortes rectos y finos en maderas nobles / blandas, madera contrachapada, planchas de fibra de madera y plásticos

Ideal for straight, fine cuts in hard-, softwood, plywood, laminated particleboard and plastics.

Idéal pour coupes droites et fins sur bois nobles / tendres, bois et tôles de fibre de bois.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €    |
|-------|-----|----------------------------|---------|---------|---|------------|------|
| 00060 | 10  | 2,5                        | 100     | 75      | 5 | 21885      | 7,77 |



Ref. **1945****CORTE LIMPIO DENTADO RECTIFICADO CÓNICO**Clean Cut Ground & Tapered Teeth  
Coupe Propre Lame FraiséeMod. **00070**

U101D

A5037-A2202

CV



Para cortes sin astillas en maderas blandas / nobles, contrachapadas, planchas fibra madera y plásticos.

For splinter-free cutting of hard-, softwood, ply-wood, laminated particleboard and plastics.

Pour coupes sans éclats sur bois nobles / tendres, tôles de fibre de bois et plastiques.

| Mod.  | TPI | Diente<br>Tooth<br>Dent<br>mm | L<br>mm | I<br>mm |  | Nº<br>Art. | €    |
|-------|-----|-------------------------------|---------|---------|--|------------|------|
| 00070 | 6   | 2,5                           | 100     | 75      |  | 21886      | 7,77 |

Ref. **1945****RÁPIDO MADERA NOBLE DENT. RECTIF. POSICIO.**Hard Wood Speed Cut Ground & Set Teeth  
Rapide Bois Noble Lame FraiséeMod. **00150**

U345XF

Bimetal



Para maderas nobles / blandas, maderas con clavos y tablero de cocina.

Hard-, softwood, wood with nails &amp; kitchen-boards.

Pour bois nobles / tendres, bois avec clous et tableaux de cuisine.

| Mod.  | TPI | Diente<br>Tooth<br>Dent<br>mm | L<br>mm | I<br>mm |  | Nº<br>Art. | €     |
|-------|-----|-------------------------------|---------|---------|--|------------|-------|
| 00150 | 6   | 2-4                           | 132     | 110     |  | 21888      | 19,32 |

Ref. **1945****ALTO RENDIMIENTO DENT. RECTIFICADO CÓNICO**High Performance Ground & Tapered Teeth  
Haut Rendement Lame RectifiéeMod. **00140**

U234X

CV



Sierra de alto rendimiento y corte rápido y limpio sin astillas en maderas nobles / blandas de cualquier grosor, especial para planchas de fibra de madera revestidas.

High performance &amp; chip-free fast &amp; clean cutting in hard-, softwood (any thickness), special for covered laminated chipboard.

Scie haute performance et coupe rapide et propre sans éclats sur bois nobles tendres de toute épaisseur, special pour tôles de fibre de bois.

| Mod.  | TPI | Diente<br>Tooth<br>Dent<br>mm | L<br>mm | I<br>mm |  | Nº<br>Art. | €     |
|-------|-----|-------------------------------|---------|---------|--|------------|-------|
| 00140 |     | Progresivo                    | 115     | 90      |  | 21887      | 15,07 |

Ref. **1915****BÁSICA DENTADO FRESADO**

Basic Milled Teeth

Basique Lame Fraisée

Mod. **00020**

U118A

A5039-A2224

HSS



TPI 21



Materiales finos. Corte recto en metal, metales no ferrosos, acero laminado y aluminio.

Thin material. Straight cuts in metal, non-ferrous metal, sheet metal and aluminium.

Matériaux fins. Coupe droite en métaux. Métaux pas ferritiques. Aciers laminés et aluminium.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |  | Nº<br>Art. | €    |
|-------|-----|----------------------------|---------|---------|-----------------------------------------------------------------------------------|------------|------|
| 00020 | 21  | 1,2                        | 75      | 55      | 5                                                                                 | 21892      | 7,88 |

Ref. **1915****FLEXIBLE DENTADO FRESADO**

Flexible Milled Teeth

Flexible Lame Fraisée

Mod. **00070**

U118AF

Bimetal



TPI 21



Materiales finos. Corte recto (flexible y resistente) en acero blando, aluminio, metales no ferrosos, Inox y plexiglas.

Thin materials. Straight cuts (flexible & resistant) in soft-steel, aluminium, non-ferrous metal, stainless steel & plexiglas.

Matériaux fins. Coupe droite (flexible et résistante) en aciers tendres, aluminium, métaux pas ferritiques, INOX et Plexiglas.

| Mod.  | TPI | Diente |            | L<br>mm | I<br>mm |  | Nº<br>Art. | €     |
|-------|-----|--------|------------|---------|---------|-------------------------------------------------------------------------------------|------------|-------|
|       |     | Tooth  | Dent<br>mm |         |         |                                                                                     |            |       |
| 00070 | 21  |        | 1,2        | 75      | 50      | 5                                                                                   | 21893      | 11,95 |

Ref. **1915****ALUMINIO DENTADO FRESADO**

Aluminium Milled Teeth

Aluminium Lame Fraisée

Mod. **00110**

U127D

A2222

HSS



TPI 8



Ideal para aluminio. Corte recto y rápido en aluminio, metales no ferrosos, metal y fibra de vidrio.

Ideal for aluminium. Fast, straight cuts in aluminium, non-ferrous metal, metal and fiberglass.

Idéal pour aluminium. Coupe droite et rapide en aluminium, métaux pas ferritiques, métaux et fibre de verre.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |  | Nº<br>Art. | €     |
|-------|-----|----------------------------|---------|---------|-------------------------------------------------------------------------------------|------------|-------|
| 00110 | 8   | 3.0                        | 100     | 75      | 5                                                                                   | 21894      | 10.32 |

Ref. **1935****CERÁMICA POLVO MD**Ceramic Carbide Powder  
Ceramique Poudre CarbureMod. **00030**

U30RIFF

A5192

MD  
HM  
Carbure

Ideal para materiales abrasivos. Corte recto / curvo fino en cerámica, vidrio, piedra y plásticos.

Ideal for abrasive materials. Fine straight/curved cuts in ceramic, glass, stone and plastics.

Idéal pour matériaux abrasifs. Coupe droite / courbes fin en céramique, verre, pierre et plastiques.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €    |
|-------|-----|----------------------------|---------|---------|---|------------|------|
| 00030 |     |                            | 75      | 55      | 1 | 21895      | 5,21 |

**Display  
20****SIERRAS CALAR INSERCIÓN "T"**

"T" Insertion Jig Saw Blades

Lames Scies Insertion "T"



| Ref. | Ø   | Mod.  | Mod.  | Mod.  | Mod.  | Mod.  | Mod.  | Mod.  | Mod.  |
|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|
| 1940 | Pcs | 00010 | 00030 | 00040 | 00050 | 00060 | 00070 | 00080 | 00100 |
|      |     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     |
| Ref. | Ø   | Mod.  | Mod.  | Mod.  | Mod.  | Mod.  | Mod.  | Mod.  |       |
| 1910 | Pcs | 00020 | 00040 | 00050 | 00060 | 00070 | 00090 | 00110 |       |
|      |     | 3     | 3     | 3     | 3     | 3     | 3     | 3     |       |
| Ref. | Ø   | Mod.  | Mod.  | Mod.  |       |       |       |       |       |
| 1930 | Pcs | 00010 | 00020 | 00030 |       |       |       |       |       |
|      |     | 3     | 3     | 3     |       |       |       |       |       |

Ref. 4995 - Nº Art. 22391: **450,24 €****Display  
21****SIERRAS CALAR INSERCIÓN "T" + "U"**

"T" + "U" Insertion Jig Saw Blades

Lames Scies Insertion "T" + "U"



| Ref. | Ø   | 00030 | 00040 | 00060 | 00070 | 00140 |
|------|-----|-------|-------|-------|-------|-------|
| 1940 | Pcs | 3     | 3     | 3     | 3     | 3     |
| Ref. | Ø   | 00030 | 00040 | 00060 | 00070 | 00140 |
| 1945 | Pcs | 3     | 3     | 3     | 3     | 3     |
| Ref. | Ø   | 00020 | 00070 | 00110 |       |       |
| 1910 | Pcs | 3     | 3     | 3     |       |       |
| Ref. | Ø   | 00020 | 00070 | 00110 |       |       |
| 1915 | Pcs | 3     | 3     | 3     |       |       |
| Ref. | Ø   | 00030 |       |       |       |       |
| 1930 | Pcs | 3     |       |       |       |       |
| Ref. | Ø   | 00030 |       |       |       |       |
| 1935 | Pcs | 3     |       |       |       |       |

Ref. 4995 - Nº Art. 22280: **439,87 €**



# SIERRAS SABLE

## Sabre Saw Blades

### Lames Scie Sabre

Ref. **1950**

#### STANDARD DENTADO FRESADO

Standard Milled Teeth  
Standard Lame Fraisée

Mod. **00010**



S1617K

CV



TPI 3



Madera gruesa (sin clavos) y madera viva (podar). Gran poder de corte.

Coarse wood (free of nails) and living wood (pruning). High cutting power.

Bois gros (sans clous) et bois vif (taillage). Haute puissance de coupe.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €     |
|-------|-----|----------------------------|---------|---------|---|------------|-------|
| 00010 | 3   | 8,5                        | 300     | 280     | 5 | 18870      | 21,29 |

Ref. **1950**

#### TOP DENTADO FRESADO

Top Milled Teeth  
Top Lame Fraisée

Mod. **00020**



S644D

318-126

40109

31120

48-00-1031

CV

Corte Curvo - Curved Cuts - Coupe Courbe



TPI 6



Madera para construcción, pared de madera, tablas de viruta, madera contrachapada, plástico. Corte basto y rápido.

Construction wood, wooden wall, chipboard, plywood and plastic. Rough and fast cutting.

Bois pour construction, murs de bois, tableaux de copeaux, bois, plastique. Coupe grosse et rapide.

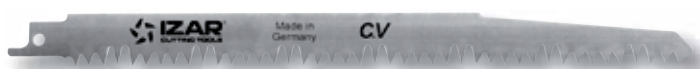
| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €     |
|-------|-----|----------------------------|---------|---------|---|------------|-------|
| 00020 | 6   | 4,2                        | 150     | 130     | 5 | 18871      | 14,18 |

Ref. **1950**

#### TOP DENTADO RECTIFICADO POSICIONADO

Top Ground & Set Teeth  
Top Lame Rectifiée

Mod. **00030**



S1531L

318-125

31139

CV



TPI 5-4



Madera gruesa (sin clavos), madera viva (podar) y leña. Corte basto y muy rápido.

Coarse wood (free of nails), living wood (pruning) and firewood. Rough and very fast cutting.

Bois gros (sans clous), bois vif (taillage) et bois. Coupe grosse et très rapide.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €     |
|-------|-----|----------------------------|---------|---------|---|------------|-------|
| 00030 | 5-4 | 5,0-6,5                    | 230     | 210     | 5 | 18872      | 22,51 |

Ref. **1920****FLEXIBLE DENTADO FRESADO**Flexible Milled Teeth  
Flexible Lame FraiséeMod. **00020**

S922EF

318-129

40116

31132

618R

48-00-5184

Bimetal



TPI 18



Láminas finas de metal, tubos finos y perfiles. INOX, acero, metales no ferrosos, tubos de acero.

Thin sheet metal, pipes and profiles. Stainless steel, steel, non-ferrous metal, steel-pipes.

Lames minces de metal, tuyaux fins et profiles. INOX, acier, métaux pas ferritiques, tuyaux d'acier.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €     |
|-------|-----|----------------------------|---------|---------|---|------------|-------|
| 00020 | 18  | 1,4                        | 150     | 130     | 5 | 18865      | 16,68 |

Ref. **1920****FLEXIBLE DENTADO FRESADO**Flexible Milled Teeth  
Flexible Lame FraiséeMod. **00030**

S922BF

318-130

40113

31134

614R

48-00-5182

Bimetal



TPI 14



Chapas duras de metal, tubos macizos y perfiles. Acero INOX, acero, metales no ferrosos.

Thick sheet metal, solid pipes and profiles. Stainless steel, steel, non-ferrous metal.

Tôles dures de metal, tuyaux massifs et profiles. Aciers INOX, acier, métaux pas ferritiques.

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €     |
|-------|-----|----------------------------|---------|---------|---|------------|-------|
| 00030 | 14  | 1,8                        | 150     | 130     | 5 | 18866      | 16,68 |

Ref. **1920****HEAVY DENTADO FRESADO**Heavy Milled Teeth  
Heavy Lame FraiséeMod. **00050**

S1025VF

Bimetal

TPI  
10-14

Chapas semiduras hasta duras, tubos macizos y perfiles. Ejecución robusta para trabajos duros.

Medium-thick to thick sheet metal, solid pipes and profiles. Sturdy version for heavy-duty work.

Tôles semidures jusqu'aux dures, tuyaux massifs et profiles. Execution robuste pour travaux durs.

| Mod.  | TPI   | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €     |
|-------|-------|----------------------------|---------|---------|---|------------|-------|
| 00050 | 10-14 | 1,8-2,5                    | 200     | 180     | 5 | 18868      | 25,36 |



Ref. **1960****FLEXIBLE MADERA/METAL DENTADO FRESADO**

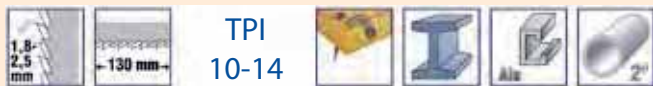
Flexible Wood/Metal Milled Teeth

Flexible Bois/Metal Lame Fraisée

Mod. **00020**

S922VF

Bimetal



Madera con clavos / metal, chapas metálicas, tubos, perfiles de aluminio, plásticos, tubos y perfiles.

Wood with nails / metal, sheet metal, pipes, aluminium profiles, plastics, pipes and profiles.

Bois avec clous/metal, tôles métalliques, tuyaux, profiles d'aluminium, plastiques, tuyaux et profiles.

| Mod.  | TPI   | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €           |
|-------|-------|----------------------------|---------|---------|------------|-------------|
| 00020 | 10-14 | 1,8-2,5                    | 150     | 130     | 5          | 18874 18,31 |

Ref. **1960****FLEXIBLE MADERA/METAL DENTADO FRESADO**

Flexible Wood/Metal Milled Teeth

Flexible Bois/Metal Lame Fraisée

Mod. **00030**

S1122VF

110R

48-005194

Bimetal



Madera con clavos / metal, chapas metálicas, tubos, perfiles de aluminio, plásticos, tubos y perfiles. Cortes enrasados flexibles.

Nails / metal wood, sheet metal, pipes, aluminium profiles, plastics, pipes &amp; profiles. Flexible flush cut.

Bois avec clous / metal, tôles métalliques, tuyaux, profiles d'aluminium, plastiques, tuyaux et profiles. Coupes flexibles.

| Mod.  | TPI   | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €           |
|-------|-------|----------------------------|---------|---------|------------|-------------|
| 00030 | 10-14 | 1,8-2,5                    | 225     | 210     | 5          | 18875 25,36 |

Ref. **1960****FLEXIBLE MADERA/METAL DENTADO FRESADO**

Flexible Wood/Metal Milled Teeth

Heavy Bois/Metal Lame Fraisée

Mod. **00040**

S628DF

Bimetal

Corte Curvo - Curved Cuts - Coupe Courbe



Madera con clavos / metal, plásticos, tubos, perfiles, plásticos / GFK, macizo, tablas de madera, tablas de virutas prensadas, marcos ventana (madera+metal)

Wood with nails / metal, plastics, pipes, plastics / glass fibre plastic, solid, wood, chipboard, window frames (wood+metal).

Bois avec clous / metal, plastiques, tuyaux, profiles, plastiques / GFK, massif, tableaux de bois, tableaux de copeaux, boîtes des fenêtres (bois + metal).

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm | Nº<br>Art. | €           |
|-------|-----|----------------------------|---------|---------|------------|-------------|
| 00040 | 6   | 4,2                        | 150     | 130     | 5          | 18876 18,04 |

Ref. **1960****HEAVY MADERA/METAL DENTADO FRESADO**

Heavy Wood/Metal Milled Teeth

Heavy Bois/Metal Lame Fraisée

Mod. **00060**

S1411DF

Bimetal



TPI 6



Madera con clavos / metal, plásticos, tubos, perfiles, plásticos / GFK, macizo, tablas de madera, tablas de virutas prensadas, marcos ventana (madera+metal)

Wood with nails / metal, plastics, pipes, plastics / glass fibre plastic, solid, wood, chipboard, window frames (wood+metal).

Bois avec clous / metal, plastiques, tuyaux, profiles, plastiques / GFK, massif, tableaux de bois, tableaux de copeaux, boîtes des fenêtres (bois + metal).

| Mod.  | TPI | Diente<br>Tooth Dent<br>mm | L<br>mm | I<br>mm |   | Nº<br>Art. | €            |
|-------|-----|----------------------------|---------|---------|---|------------|--------------|
| 00060 | 6   | 4,2                        | 300     | 280     | 5 | 18878      | <b>29,70</b> |

## PRESENTACIONES

Presentations

Presentations

## OFERTAS IMPLANTACIÓN

Stock Offers

Offres Implantation

206

## DISPLAYS

Displays

Presentoirs

212

## OFERTA IMPLANTACIÓN DISPLAYS 1 METRO

1 Metre Display Stock Offer

Offre Implantation Présentoirs 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: **580,14 €**

Display  
**02**

### BROCA-MARTILLO SDS PLUS 2

SDS plus Rotary Hammer Drill Bit 2  
Foret Percussion SDS plus 2

Ref. 4995 - N° Art. 22183: **696,26 €**

Display  
**07**

### BROCA PUNTA METAL DURO PARED PROFESIONAL

Professional Concrete Carbide Tipped Twist Drill  
Foret Pointe Carbure Béton Professionnel

Ref. 4995 - N° Art. 22191: **562,93 €**

Display  
**10**

### BROCAS MADERA PALA Y 3 PUNTAS

Wood Drill Bits Flat & 3-Pointed  
Forets Bois Meches Plates & 3-Pointes

Ref. 4995 - N° Art. 22184: **372,75 €**

Display  
**13**

### BROCA MANGO CILÍNDRICO COBALTO

Cobalt Straight Shank Twist Drill  
Foret Queue Cylindrique Cobalt

Ref. 4995 - N° Art. 22181: **528,65 €**

Display  
**14**

### BROCA MANGO CILÍNDRICO HSS

HSS Straight Shank Twist Drill  
Foret Queue Cylindrique HSS

Ref. 4995 - N° Art. 22162: **393,40 €**

Display  
**19**

### SIERRA CORONA METAL / MADERA

METAL / WOOD Hole Saw  
Trépan METAL / BOIS

Ref. 4995 - N° Art. 22220: **848,44 €**

Display  
**23**

### JUEGOS CASSETTE MADERA Y CONSTRUCCIÓN

Wood & Construction Cassette Sets  
Jeux Cassette Bois & Construction

Ref. 4995 - N° Art. 22372: **389,56 €**

**TOTAL: 4.372,13 €**



## OFERTA IMPLANTACIÓN DISPLAYS 1 METRO

1 Metre Display Stock Offer

Offre Implantation Présentoirs 1 Metre





## OFERTA IMPLANTACIÓN DISPLAYS 1,33 METROS

1,33 Metre Display Stock Offer

Offre Implantation Présentoirs 1,33 Metres

Display  
01

### BROCA-MARTILLO SDS PLUS 1

SDS plus Rotary Hammer Drill Bit 1  
Foret Percussion SDS plus 1

Ref. 4995 - N° Art. 22182: **580,14 €**

Display  
02

### BROCA-MARTILLO SDS PLUS 2

SDS plus Rotary Hammer Drill Bit 2  
Foret Percussion SDS plus 2

Ref. 4995 - N° Art. 22183: **696,26 €**

Display  
04

### CINCELES SDS MAX / PLUS

SDS max / plus Chisels  
Burins SDS max / plus

Ref. 4995 - N° Art. 22289: **584,44 €**

Display  
07

### BROCA PUNTA METAL DURO PARED PROFESIONAL

Professional Concrete Carbide Tipped Twist Drill  
Foret Pointe Carburé BEton Professionnel

Ref. 4995 - N° Art. 22191: **562,93 €**

Display  
10

### BROCAS MADERA PALA Y 3 PUNTAS

Wood Drill Bits Flat & 3-Pointed  
Forets Bois Meches Plates & 3-Pointes

Ref. 4995 - N° Art. 22184: **372,75 €**

Display  
13

### BROCA MANGO CILÍNDRICO COBALTO

Cobalt Straight Shank Twist Drill  
Foret Queue Cylindrique Cobalt

Ref. 4995 - N° Art. 22181: **528,65 €**

Display  
14

### BROCA MANGO CILÍNDRICO HSS

HSS Straight Shank Twist Drill  
Foret Queue Cylindrique HSS

Ref. 4995 - N° Art. 22162: **393,40 €**

Display  
19

### SIERRA CORONA METAL / MADERA

METAL / WOOD Hole Saw  
Trépan METAL / BOIS

Ref. 4995 - N° Art. 22220: **848,44 €**

Display  
20

### SIERRAS CALAR INSERCIÓN "T"

"T" Insertion Jig Saw Blades  
Lames Scies Insertion "T"

Ref. 4995 - N° Art. 22391: **450,24 €**

Display  
23

### JUEGOS CASSETTE MADERA Y CONSTRUCCIÓN

Wood & Construction Cassette Sets  
Jeux Cassette Bois & Construction

Ref. 4995 - N° Art. 22372: **389,56 €**

Display  
24

### SETS BROCAS MANGO CILINDRICO HSS + HSSE

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

Ref. 4995 - N° Art. 22320: **480,63 €**

**TOTAL: 5.887,44 €**

## OFERTA IMPLANTACIÓN DISPLAYS 1,33 METROS

1,33 Metre Display Stock Offer

Offre Implantation Présentoirs 1,33 Metres



## OFERTA IMPLANTACIÓN DISPLAYS 2 METROS

2 Metre Display Stock Offer

Offre Implantation Presentoirs 2 Metres

Display  
01

### BROCA-MARTILLO SDS PLUS 1

SDS plus Rotary Hammer Drill Bit 1  
Foret Percussion SDS plus 1

Ref. 4995 - Nº Art. 22182: **580,14 €**

Display  
02

### BROCA-MARTILLO SDS PLUS 2

SDS plus Rotary Hammer Drill Bit 2  
Foret Percussion SDS plus 2

Ref. 4995 - Nº Art. 22183: **696,26 €**

Display  
03

### BROCA-MARTILLO SDS MAX 4 PUNTAS

4-Cutter SDS max Rotary Hammer Drill Bit  
Foret Percussion SDS max 4 Pointes

Ref. 4995 - Nº Art. 22315: **1366,86 €**

Display  
04

### CINCELES SDS MAX / PLUS

SDS max / plus Chisels  
Burins SDS max / plus

Ref. 4995 - Nº Art. 22289: **584,44 €**

Display  
05

### CORONA LIGERA PARED PROFESIONAL

Professional Concrete Light Hollow Core Bit  
Trépan Béton Professionnel

Ref. 4995 - Nº Art. 22418: **638,29 €**

Display  
06

### CORONA PERFORADORA TALADRO PERCUTOR HORMIGÓN

Tapered Hollow Hammer Core Bit  
Trépan pour Perçuses Percussion Lourds BÉTON

Ref. 4995 - Nº Art. 22463: **827,14 €**

Display  
07

### BROCA PUNTA METAL DURO PARED PROFESIONAL

Professional Concrete Carbide Tipped Twist Drill  
Foret Pointe Carbure BÉton Professionnel

Ref. 4995 - Nº Art. 22191: **562,93 €**

Display  
10

### BROCAS MADERA PALA Y 3 PUNTAS

Wood Drill Bits Flat & 3-Pointed  
Forets Bois Meches Plates & 3-Pointes

Ref. 4995 - Nº Art. 22184: **372,75 €**

Display  
12

### PORTA-BROCAS TALADROS PORTÁTILOS Y ESTACIONARIOS

Portable & Stationary Drilling Machine Drill-Chucks  
Mandrins Perçuses Portables & Fixes

Ref. 4995 - Nº Art. 22334: **1110,81 €**

Display  
13

### BROCA MANGO CILÍNDRICO COBALTO

Cobalt Straight Shank Twist Drill  
Foret Queue Cylindrique Cobalt

Ref. 4995 - Nº Art. 22181: **528,65 €**

Display  
14

### BROCA MANGO CILÍNDRICO HSS

HSS Straight Shank Twist Drill  
Foret Queue Cylindrique HSS

Ref. 4995 - Nº Art. 22162: **393,40 €**

Display  
18

### BROCA MANGO REBAJADO HSS

HSS Reduced Shank Twist Drill  
Foret Queue Réduit HSS

Ref. 4995 - Nº Art. 22352: **575,02 €**

Display  
19

### SIERRA CORONA METAL / MADERA

METAL / WOOD Hole Saw  
Trépan METAL / BOIS

Ref. 4995 - Nº Art. 22220: **848,44 €**

Display  
20

### SIERRAS CALAR INSERCIÓN "T"

"T" Insertion Jig Saw Blades  
Lames Scies Insertion "T"

Ref. 4995 - Nº Art. 22391: **450,24 €**

Display  
23

### JUEGOS CASSETTE MADERA Y CONSTRUCCIÓN

Wood & Construction Cassette Sets  
Jeux Cassette Bois & Construction

Ref. 4995 - Nº Art. 22372: **389,56 €**

Display  
24

### SETS BROCAS MANGO CILINDRICO HSS + HSSE

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

Ref. 4995 - Nº Art. 22320: **480,63 €**

Display  
61

### BROCA-MARTILLO SDS PLUS 4 PUNTAS

4-Cutter SDS plus Rotary Hammer Drill Bit  
Foret Percussion SDS plus 4 Pointes

Ref. 4995 - Nº Art. 29487: **473,48 €**

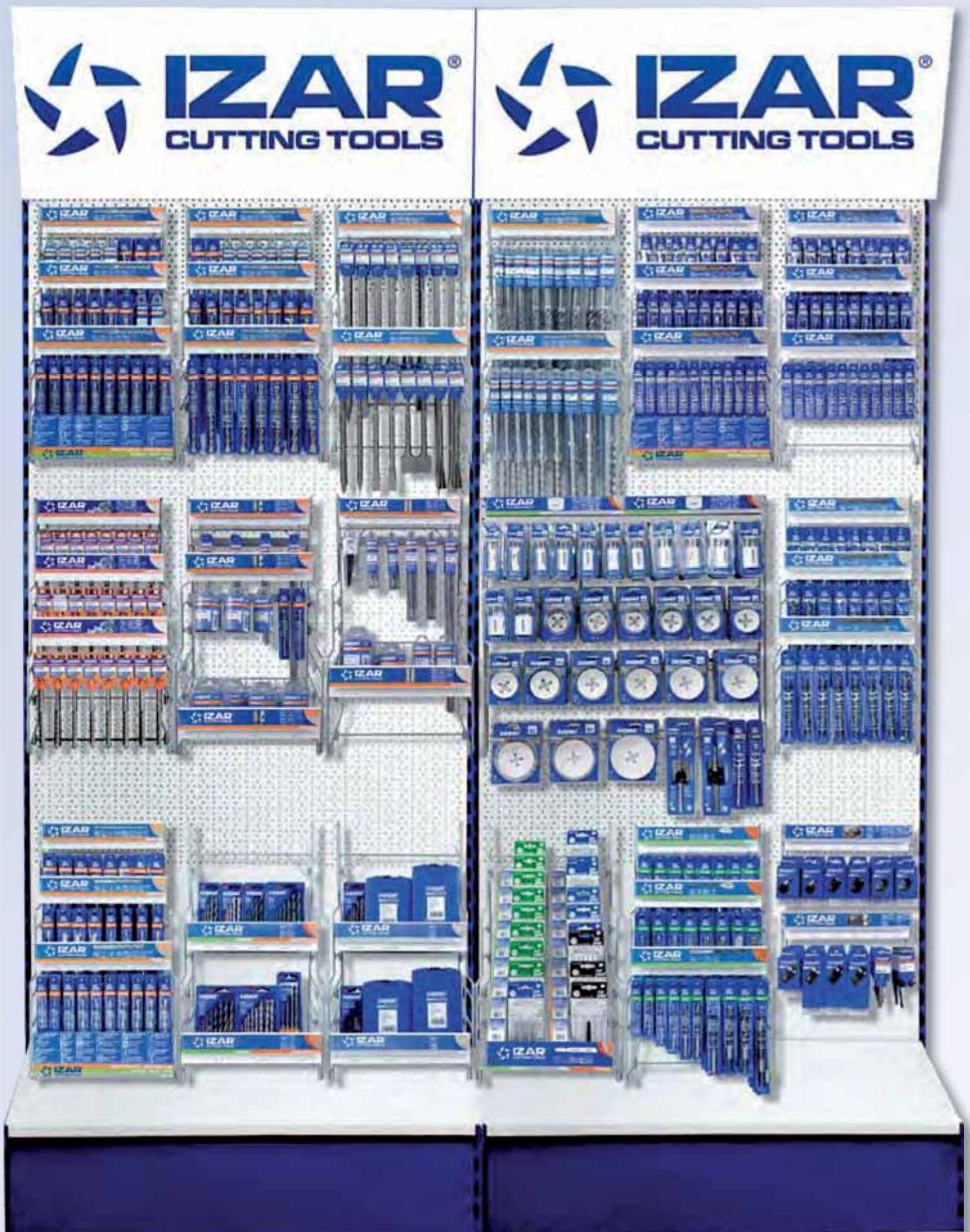
**TOTAL: 10.879,04 €**



## OFERTA IMPLANTACIÓN DISPLAYS 2 METROS

2 Metre Display Stock Offer

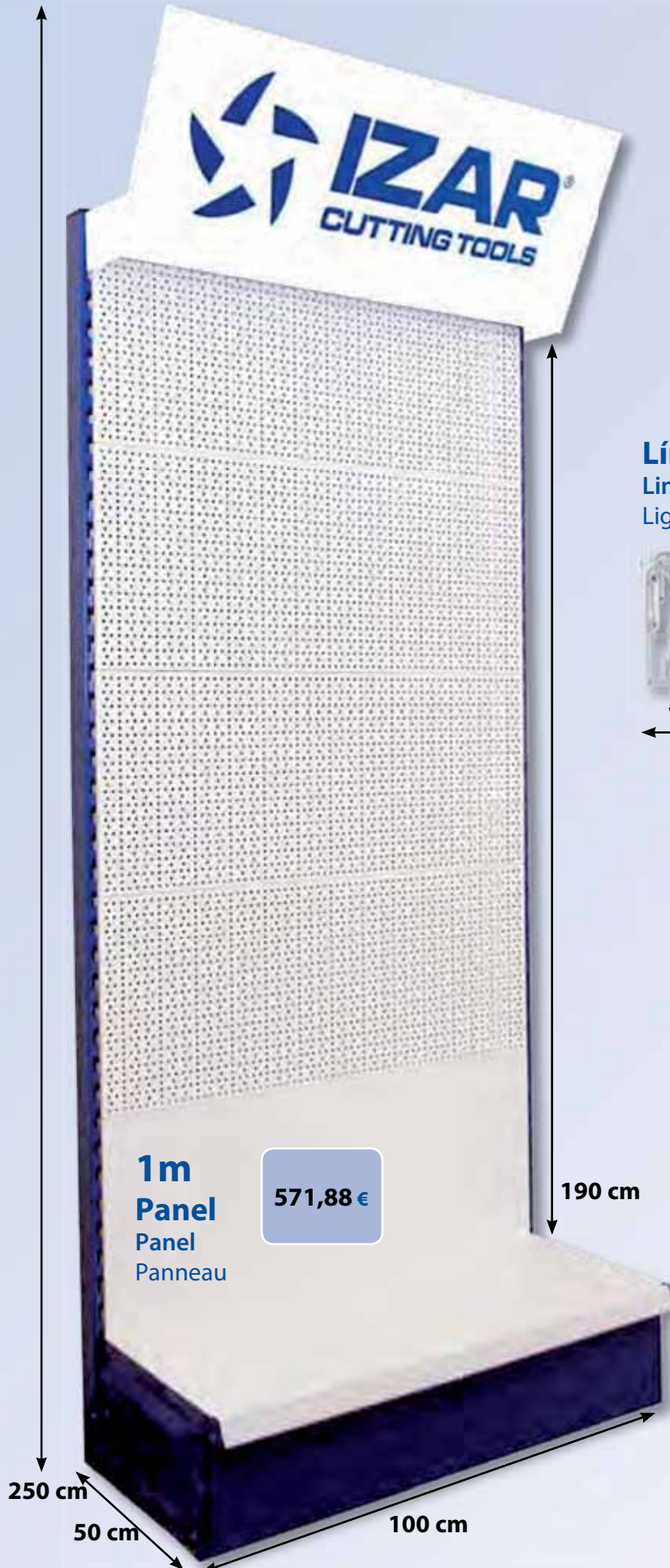
Offre Implantation Présentoirs 2 Metres





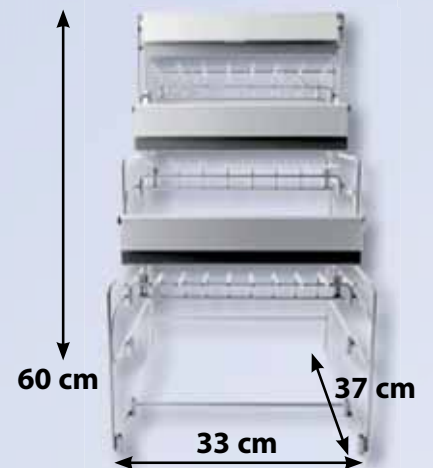
## DISPLAYS

Displays  
Presentoirs



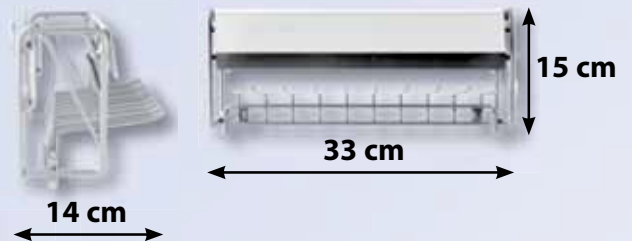
**Cascada**  
Waterfall  
Cascade

**98,15 €**



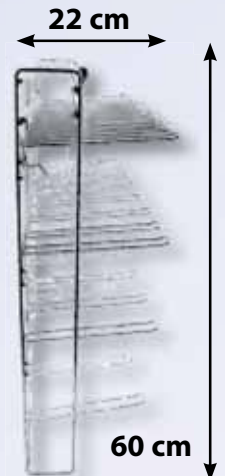
**Línea**  
Line  
Ligne

**33,72 €**



**Línea Larga**  
Long Line  
Ligne Longue

**94,06 €**





## 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 desee 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 Fábrica.

#### 4. DEVOLUCIONES

Sólo se aceptarán las devoluciones por defecto de fabricación o error atribuible a IZAR CUTTING TOOLS S.A.L. No se aceptarán devoluciones sin previa autorización de Fábrica 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 CUTTING TOOLS S.A.L.

#### 6. I.V.A.

Los precios están sujetos al Impuesto sobre el Valor Añadido, siendo a cargo del cliente el recargo correspondiente.

#### 7. GARANTIAS

Todas las herramientas están garantizadas contra cualquier defecto de fabricación y materiales, sin responsabilizarse Fábrica 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 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 Fábrica se reserva el derecho de utilizar el medio de envío más económico. En las capitales donde Fábrica tenga establecidos depósitos de distribución, esta cláusula se aplicará para las reexpediciones a otras poblaciones de la provincia.

#### 9. IMPORTE MINIMO 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. JURISDICCION 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 CUTTING TOOLS S.A.L. 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 CUTTING TOOLS S.A.L.
- Ejercicio de un mantenimiento razonable que evite daños al Display.

El sistema de Displays modulares está patentado por IZAR CUTTING TOOLS S.A.L. La infracción de dicha patente dará lugar a las acciones legales pertinentes

#### 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 de IZAR 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. CONDITIONNALITE

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 de 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

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. JURIDICCION 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 présentoirs modulaires

Les présentoirs modulaires sont propriété de IZAR CUTTING TOOLS S.A.L. 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 CUTTING TOOLS S.A.L.
- Entretien raisonnable qui évite les dommages au présentoir

Le système de présentoirs modulaires est breveté par IZAR CUTTING TOOLS S.A.L. Le non-respect dudit brevet donnera lieu aux actions légales nécessaires.

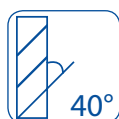
## INDICE SÍMBOLOS

Symbol Index

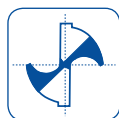
Index de Symboles



**Ángulo Punta**  
Point Angle  
Angle de Pointe



**Ángulo de Hélice**  
Helix Angle  
Angle d'Hélice



**Afilado DIN 1412 C**  
Split Point DIN 1412 C  
Affûtage DIN 1412 C



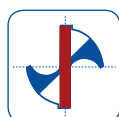
**Mango 3 Planos**  
3-Flat Shank  
Attachement 3 Plans



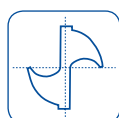
**Taladro Portátil**  
Portable Drilling Machine  
Perçuse à Main



**Mango Rebajado**  
Reduced Shank  
Queue Reduit



**Punta Metal Duro**  
Carbide Tipped  
Pointe Carbure



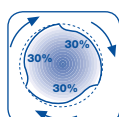
**Afilado Universal**  
Universal Point  
Affûtage Universel



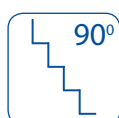
**Sin Percusión**  
No Percussion  
Sans Percussion



**Percusión**  
Percussion  
Percussion



**Mango Especial**  
Special Shank  
Queue Spéciale



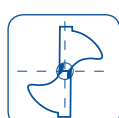
**Ángulo Broca Escalonada**  
Step Drill Angle  
Angle de Foret Etagé



**Conicidad**  
Taper  
Conicité



**Puntos Soldadura**  
Welding Point  
Points Soudure



**Punta Centrar DIN 1412 E**  
Center Point DIN 1412 E  
Pointe à Centrer DIN 1412 E



**Punta Centrar DIN 1412 E**  
Center Point DIN 1412 E  
Pointe à Centrer DIN 1412 E



**Espesor Material**  
Material Thickness  
Épaisseur Matériel



**Plástico**  
Plastic  
Plastique



**Angulo Avellanado**  
Countersink Angle  
Angle de Fraisage



**Angulo Avellanado**  
Countersink Angle  
Angle de Fraisage



**Entrada Macho**  
Tap Point  
Entrée de Taraud



**Angulo de Hélice**  
Helix Angle  
Angle d'Hélice



**Entrada GUN**  
GUN Chamfer  
Entrée GUN



**Corte al Centro**  
Center Cutting  
Coupe au Centre



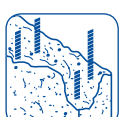
**Sin Corte al Centro**  
Non Center Cutting  
Sans Coupe au Centre



**Perfiles**  
Profiles  
Profils



**Cabezal Zentro4**  
Zentro4 head  
Tête Zentro4



**Hormigón Reforzado**  
Reinforced Concrete  
Béton Armé



**Hormigón**  
Concrete  
Béton



**Hormigón Bloque**  
Concrete Block  
Parpaing



**Ladrillo**  
Brick  
Brique



**Cabezal 4 Puntas**  
4-Cutter Head  
Tête 4 Pointes



**Punta MD Afilada**  
Carbide Split Point  
Affûtage Pointe Carbure



**Porcelánico**  
Porcelain  
Porcelaine



**Refrigeración Agua**  
Water Cooling  
Refrigeration Eau



**R.P.M.**  
R.P.M.  
R.P.M.



**Herramienta Diamante**  
Diamond Tool  
Outil Diamant



**Amoladora**  
Disc Grinder  
Meuleuse



**Cerámica**  
Ceramics  
Céramique



**Madera**  
Wood  
Bois



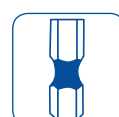
**Vidrio**  
Glass  
Verre



**Metal**  
Metal  
Metal



**Máquina Perforadora**  
Core Drilling Machine  
Carotteuse Electrique



**Inserción Rápida 1/4**  
Quick Shank 1/4  
Attache Rapide 1/4



**Bujía**  
Spark Plug  
Bougie

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| 1002 | 41                     | 1485 | 146  | 1655 | 164  | 1852 | 156  | 3003 | 73   |      |      | 8990 | 120  |
| 1003 | 49                     | 1486 | 145  | 1660 | 45   | 1853 | 157  | 3005 | 89   | 4070 | 63   | 8991 | 120  |
| 1004 | 16                     | 1487 | 145  | 1661 | 153  | 1854 | 157  | 3010 | 76   | 4071 | 64   |      |      |
| 1005 | 26                     | 1488 | 146  | 1662 | 153  | 1860 | 155  | 3012 | 79   | 4072 | 65   | 9100 | 29   |
| 1006 | 21                     | 1489 | 127  | 1664 | 67   | 1869 | 127  | 3016 | 80   | 4075 | 65   |      |      |
| 1007 | 43                     | 1490 | 51   | 1665 | 67   | 1870 | 139  | 3020 | 75   | 4077 | 62   | 9200 | 108  |
| 1009 | 51                     | 1491 | 51   | 1667 | 66   | 1872 | 140  | 3023 | 77   |      |      | 9230 | 105  |
| 1010 | 30                     | 1492 | 51   | 1669 | 168  | 1875 | 138  | 3026 | 80   | 4223 | 111  | 9231 | 105  |
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| 1016 | 18                     |      |      | 1672 | 171  | 1881 | 148  | 3036 | 74   | 4414 | 109  | 9240 | 105  |
| 1020 | 24                     | 1500 | 184  | 1673 | 171  | 1882 | 142  |      |      |      |      | 9247 | 107  |
| 1021 | 14                     | 1520 | 180  | 1674 | 169  | 1883 | 143  | 3100 | 81   | 7001 | 176  | 9248 | 107  |
| 1027 | 28                     | 1521 | 182  | 1675 | 169  | 1886 | 144  | 3109 | 86   | 7002 | 175  | 9250 | 99   |
| 1030 | 47                     | 1522 | 183  | 1676 | 170  | 1889 | 148  | 3150 | 84   | 7003 | 176  | 9251 | 100  |
| 1040 | 50                     | 1529 | 184  | 1677 | 170  | 1890 | 128  | 3157 | 87   | 7009 | 175  | 9252 | 100  |
| 1050 | 46                     |      |      | 1678 | 169  | 1891 | 126  | 3181 | 92   |      |      | 9254 | 101  |
| 1090 | 51                     | 1601 | 179  | 1679 | 168  | 1892 | 133  | 3184 | 92   | 8309 | 158  | 9255 | 101  |
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