

FRAISES À ÉBAVURER à trou

La fraise à ébavurer à trou est plus particulièrement conçue pour l'ébavurage, l'exécution des petits chanfreins et pour une utilisation dans les métaux légers et plastiques. L'empreinte obtenue est lisse et sans bavure.

DEBURRING TOOL With Hole

The deburring tool with hole is particularly designed for countersinking, the execution of small chamfers, and for use with light metals and plastics. The surface obtained is smooth and burr free.

HERRAMIENTA DE DESBARBAR Con agujero

La herramienta de desbarbar con agujero está particularmente diseñada para el avellanado, la ejecución de pequeños chaflanes y para la utilización con metales ligeros y plásticos. La superficie obtenida es lisa y sin rebabas.

FRESE PER SBAVARE con foro

La fresa con foro per sbavare è specificamente studiata per la sbavatura, l'esecuzione di piccoli smussi e per un impiego su leghe leggere e materie plastiche. L'impronta ottenuta è liscia e non presenta bave.

Special aluminium


60° - 82° - 90° - 100° - 120°



| α - 1° | D + 0,3 | Capacité Capacity Capacidad mini ~ maxi | d h9 | L ± 1 | magafor | α - 1° | TiN |
|---------------------------|-------------------|--|-------------------|----------|---------|----------------------------|-----|
| 60° 412 | 10 | 5 ~ 9 | 6 | 49 | | 60° 4812 | |
| | 15 | 8 ~ 14 | 8 | 60 | | | |
| | 20 | 10 ~ 18 | 10 | 71 | | | |
| | 25 | 12 ~ 23 | 12 | 85 | | | |
| | 30 | 15 ~ 28 | 12 | 96 | | | |
| 82° 414 | 35 | 17 ~ 33 | 16 ⁽³⁾ | 117 | | 82° 4814 | |
| | 10 | 4 ~ 9 | 6 | 46 | | | |
| | 15 | 6 ~ 14 | 8 | 56 | | | |
| | 20 | 8 ~ 18 | 10 | 66 | | | |
| | 25 | 10 ~ 23 | 12 | 76 | | | |
| 90° 411 | 30 | 12 ~ 28 | 12 | 89 | | 90° 4811 | |
| | 35 | 14 ~ 33 | 16 ⁽³⁾ | 108 | | | |
| | 10 ⁽¹⁾ | 2 ~ 5 | 6 | 45 | | | |
| | 10 ⁽¹⁾ | 4 ~ 9 | 6 | 45 | | | |
| | 15 | 6 ~ 14 | 6 ⁽²⁾ | 48 | | | |
| | 15 | 6 ~ 14 | 8 ⁽²⁾ | 55 | | | |
| | 20 | 8 ~ 18 | 10 | 65 | | | |
| | 25 | 10 ~ 23 | 12 | 78 | | | |
| | 28 | 11 ~ 26 | 12 | 78 | | | |
| 100° 415 | 30 | 12 ~ 28 | 12 | 87 | | 100° 4815 | |
| | 35 | 14 ~ 33 | 16 ⁽³⁾ | 106 | | | |
| | 40 | 16 ~ 38 | 16 ⁽³⁾ | 121 | | | |
| | 50 | 20 ~ 48 | 16 ⁽³⁾ | 130 | | | |
| | 10 | 4 ~ 9 | 6 | 44 | | | |
| 120° 413 | 15 | 5 ~ 14 | 8 | 54 | | 120° 4813 | |
| | 20 | 7 ~ 18 | 10 | 63 | | | |
| | 25 | 9 ~ 23 | 12 | 76 | | | |
| | 30 | 11 ~ 28 | 12 | 85 | | | |
| | 35 | 13 ~ 33 | 16 ⁽³⁾ | 103 | | | |
| 120° 413 | 10 | 4 ~ 9 | 6 | 43 | | 120° 4813 | |
| | 15 | 5 ~ 14 | 8 | 52 | | | |
| | 20 | 6 ~ 18 | 10 | 61 | | | |
| | 25 | 8 ~ 23 | 12 | 68 | | | |
| 120° 413 | 30 | 10 ~ 28 | 12 | 82 | | 120° 4813 | |
| | 35 | 12 ~ 33 | 16 ⁽³⁾ | 99 | | | |

(1) Préciser la capacité sur vos commandes
Precisar la capacidad en el pedido

(2) Préciser le Ø de queue sur vos commandes
Precisar el Ø de mango en el pedido

(3)  Queue avec 3 plats = serrage efficace
Mango con 3 planos = sujeción eficaz

Please mention capacity when ordering
Sugli ordini precisare la capacità
Please mention the shank Ø when ordering
Nei vostri ordini precisare Ø del codolo
effective holding = shank with 3 flats
Codolo con 3 piani = bloccaggio efficace

performances

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Vidéo ou live



www.magafor.com



60° - 82° - 90°

| α -1° | # | D + 0,3 mm (inch) | Capacité Capacity | | L h9 ±1 | magafor | α -1° | TiN |
|--------------------------|---|----------------------------|--------------------------------------|---------|------------|-------------|-----------------|-----|
| | | | Capacité Capacidad mini ~ maxi | d h9 | | | | |
| 60° 412 | 0 | 6,35 (1/4") ⁽¹⁾ | 3 ~ 5 | 6,35 | 45 | 4812 | 60° | |
| | 1 | 11,2 (7/16") | 5 ~ 10 | 6,35 | 45 | | | |
| | 2 | 14,0 (9/16") | 7 ~ 13 | 6,35 | 50 | | | |
| | 3 | 20,4 (13/16") | 10 ~ 18 | 12,7 | 66 | | | |
| | 4 | 30,1 (1-3/16") | 15 ~ 28 | 12,7 | 87 | | | |
| 82° 414 | 0 | 6,35 (1/4") ⁽¹⁾ | 2 ~ 5 | 6,35 | 45 | 4814 | 82° | |
| | 1 | 11,2 (7/16") | 5 ~ 10 | 6,35 | 46 | | | |
| | 2 | 14,0 (9/16") | 6 ~ 13 | 6,35 | 50 | | | |
| | 3 | 20,4 (13/16") | 9 ~ 18 | 12,7 | 66 | | | |
| | 4 | 30,1 (1-3/16") | 12 ~ 28 | 12,7 | 80 | | | |
| 90° 411 | 0 | 6,35 (1/4") ⁽¹⁾ | 2 ~ 5 | 6,35 | 45 | 4811 | 90° | |
| | 1 | 11,2 (7/16") | 5 ~ 10 | 6,35 | 45 | | | |
| | 2 | 14,0 (9/16") | 6 ~ 13 | 6,35 | 50 | | | |
| | 3 | 20,4 (13/16") | 9 ~ 18 | 12,7 | 66 | | | |
| | 4 | 30,1 (1-3/16") | 12 ~ 28 | 12,7 | 78 | | | |

(1) Fraise double Double end cutter Fresas doble punta Frese doppie

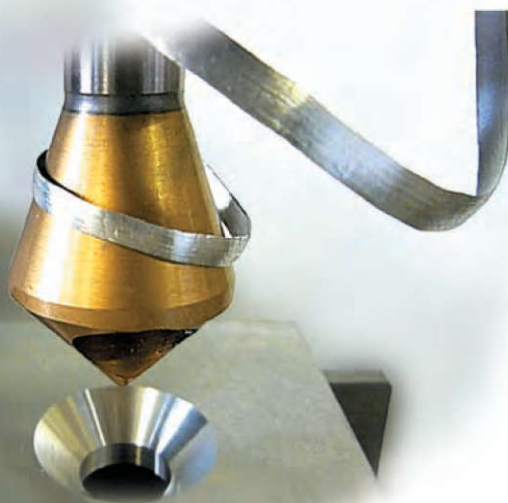
CÔNES MORSE MORSE TAPER CONO MORSE



60° - 90° - 120°

| α -1° | D + 0,3 | Capacité Capacity | | L ± 1 | magafor | |
|---------------------------|------------|----------------------|--------------------------------------|----------|-------------|-------------|
| | | MORSE N° * | Capacité Capacidad mini ~ maxi | | | |
| 60° 412 | 20 | 10 ~ 18 | 1 | 97 | 4812 | |
| | 25 | 12 ~ 23 | 1 | 104 | | |
| | 30 | 15 ~ 28 | 2 | 125 | | |
| | 40 | 20 ~ 38 | 2 | 160 | | |
| | 45 | 22 ~ 43 | 3 | 158 | | |
| | 50 | 25 ~ 48 | 3 | 170 | | |
| | 60 | 30 ~ 58 | 3 | 175 | | |
| | 80 | 40 ~ 77 | 4 | 253 | | |
| | 15 | 6 ~ 14 | 1 | 91 | | 4811 |
| | 20 | 8 ~ 18 | 1 | 94 | | |
| 25 | 10 ~ 23 | 1 | 101 | | | |
| 30 | 12 ~ 28 | 2 | 120 | | | |
| 35 | 14 ~ 33 | 2 | 134 | | | |
| 40 | 16 ~ 38 | 2 | 149 | | | |
| 40 | 16 ~ 38 | 3 | 164 | | | |
| 50 | 20 ~ 48 | 2 | 158 | | | |
| 50 | 20 ~ 48 | 3 | 172 | | | |
| 63 | 26 ~ 60 | 3 | 184 | | | |
| 80 | 32 ~ 77 | 4 | 229 | | | |
| 90° 411 | 20 | 6 ~ 18 | 1 | 92 | 4811 | |
| | 30 | 10 ~ 28 | 2 | 117 | | |
| | 35 | 12 ~ 33 | 2 | 112 | | |
| | 40 | 14 ~ 38 | 3 | 153 | | |
| | 50 | 16 ~ 48 | 2 | 149 | | |
| 120° 413 | 50 | 16 ~ 48 | 3 | 151 | 4813 | |

* Préciser le n° du cône Morse sur vos commandes
Please mention the MT number when ordering
Especificar el CM en el pedido
Precisare nei vostri ordini il cono Morse desiderato



Promo-kits



60° - 82° - 90° - 100° - 120°

| COMPOSITION COMPOSICIÓN COMPOSIZIONE | α | magafor |
|--|-------------|-----------------|
| 5 fraises cutters fresas frese Ø 10 - 15 - 20 25 - 30 | 60° | 412 |
| | | 4812 TiN |
| | 82° | 414 |
| | | 4814 TiN |
| | 90° | 411 |
| | | 4811 TiN |
| | 100° | 415 |
| | | 4815 |
| | 120° | 413 |
| | | 4813 |
| 5 fraises cutters fresas frese (inch) # 0 - 1 - 2 - 3 - 4 | 60° | 412/5 |
| | 82° | 414/5 |
| | 90° | 411/5 |

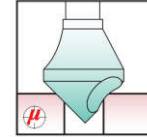
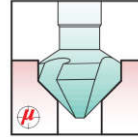
performances

Vc = vitesse speed velocidad velocidad = m/min.

Vf = avance feed avance avanzamento = mm/min.

$\frac{Vc \times 1000}{\pi \times \varnothing} =$ Tours par min. Rev. / min.
Giri / min. revoluciones por minuto.

ÉBAVURAGE - CHANFREINAGE DEBURRING - COUNTERSINKING DESBARBADO - AVELLANADO SVASATURA - SBAVATURA



Recommandation
Recomendación
Suggerimento

N° 1

N° 2

Autres
Otros
Others
Altre soluzioni

| MATIÈRE MATERIAL MATERIALE | | HSS-Co | HSS-Co + TiN | HSS 8% Co | HSS 8% Co + Red'X | Carbure Carbide Metallo Duro | Carbure Carbide + Hard'X | HSS-Co | HSS-Co + TiN | HSS-Co | HSS-Co + TiN |
|---------------------------------------|---------|---------|-----------------|--------------|-------------------------|---------------------------------------|--------------------------------|---------|-----------------|---------|-----------------|
| Pages Páginas Pagina | | 47 ~ 57 | | 49 | | 49 ~ 56 | | 60 - 61 | | 62 - 63 | |
| Aciers Steels | Vc | 17~22 | 17~22 | 35~45 | 35~45 | 40~80 | 40~80 | 35~45 | 35~45 | 35~45 | 35~45 |
| Aceros Acciai | Ø 10 | 85 | 85 | 165 | 165 | 250 | 250 | 165 | 165 | 165 | 165 |
| ≤ 500 N/mm² | Ø 20 Vf | 45 | 45 | 85 | 85 | 125 | 125 | 85 | 85 | 85 | 85 |
| | Ø 30 | 30 | 30 | 55 | 55 | 85 | 85 | 55 | 55 | 55 | 55 |
| Aciers Steels | Vc | 10~15 | 10~15 | 20~30 | 20~30 | 30~60 | 30~60 | 20~30 | 20~30 | 20~30 | 20~30 |
| Aceros Acciai | Ø 10 | 60 | 60 | 110 | 110 | 170 | 170 | 110 | 110 | 110 | 110 |
| 500 ~ 800 N/mm² | Ø 20 Vf | 30 | 30 | 55 | 55 | 85 | 85 | 55 | 55 | 55 | 55 |
| | Ø 30 | 20 | 20 | 35 | 35 | 60 | 60 | 35 | 35 | 35 | 35 |
| Aciers Steels | Vc | 8~12 | 8~12 | 16~20 | 16~20 | 20~40 | 20~40 | 15~20 | 15~20 | 15~20 | 15~20 |
| Aceros Acciai | Ø 10 | 35 | 35 | 55 | 55 | 100 | 100 | 55 | 55 | 55 | 55 |
| 800 ~ 1000 N/mm² | Ø 20 Vf | 25 | 25 | 35 | 35 | 60 | 60 | 35 | 35 | 35 | 35 |
| | Ø 30 | 15 | 15 | 25 | 25 | 45 | 45 | 25 | 25 | 25 | 25 |
| Inox Stainless steel | Vc | 6~10 | 6~10 | 12~15 | 12~15 | 20~40 | 20~40 | 12~15 | 12~15 | 12~15 | 12~15 |
| Aceros Inoxidables | Ø 10 | 30 | 30 | 45 | 45 | 100 | 100 | 45 | 45 | 45 | 45 |
| 1000 ~ 1300 N/mm² | Ø 20 Vf | 15 | 15 | 25 | 25 | 60 | 60 | 25 | 25 | 25 | 25 |
| | Ø 30 | 10 | 10 | 20 | 20 | 40 | 40 | 20 | 20 | 20 | 20 |
| Acier anti-abrasion Abrasive tough | Vc | | | | 12~15 | 15~20 | 15~20 | | | | |
| Steel < 420 HB | Ø 10 | | | | 40 | 55 | 55 | | | | |
| Acero resistente a la abrasión | Ø 20 Vf | | | | 30 | 35 | 35 | | | | |
| | Ø 30 | | | | 20 | 25 | 25 | | | | |
| Bronze dur Inconel, Nimonic | Vc | | | 4~6 | 4~6 | 10~12 | 10~12 | | | | |
| Hard bronze | Ø 10 | | | 16 | 16 | 30 | 30 | | | | |
| Bronze/Bronzo duro | Ø 20 Vf | | | 8 | 8 | 16 | 16 | | | | |
| | Ø 30 | | | 6 | 6 | 10 | 10 | | | | |
| Acier traité Treated steel | Vc | | | | | 8~10 | 10~12 | | | | |
| ≥ 60 HRC | Ø 10 | | | | | 20 | 30 | | | | |
| Acero tratado Acciai trattati | Ø 20 Vf | | | | | 10 | 16 | | | | |
| | Ø 30 | | | | | 8 | 10 | | | | |
| Fonte Cast iron | Vc | 15~25 | 15~25 | 20~40 | 20~40 | 40~80 | 40~80 | 20~40 | 20~40 | 20~40 | 20~40 |
| Fundición | Ø 10 | 70 | 70 | 125 | 125 | 250 | 250 | 125 | 125 | 125 | 125 |
| Ghisa | Ø 20 Vf | 40 | 40 | 75 | 75 | 150 | 150 | 75 | 75 | 75 | 75 |
| | Ø 30 | 30 | 30 | 50 | 50 | 100 | 100 | 50 | 50 | 50 | 50 |
| Aluminium Alluminio | Vc | 35~45 | 35~45 | 50~60 | 50~60 | 40~100 | 40~100 | 50~60 | 50~60 | 50~60 | 50~60 |
| | Ø 10 | 200 | 200 | 255 | 255 | 350 | 350 | 255 | 255 | 255 | 255 |
| | Ø 20 Vf | 130 | 130 | 180 | 180 | 230 | 230 | 180 | 180 | 180 | 180 |
| | Ø 30 | 110 | 110 | 150 | 150 | 200 | 200 | 150 | 150 | 150 | 150 |
| Laiton Brass Bronze | Vc | 20~30 | 20~30 | 30~40 | 30~40 | | | 30~40 | 30~40 | 30~40 | 30~40 |
| Latòn - Bronce | Ø 10 | 120 | 120 | 150 | 150 | | | 150 | 150 | 150 | 150 |
| Bronzo | Ø 20 Vf | 85 | 85 | 110 | 110 | | | 110 | 110 | 110 | 110 |
| | Ø 30 | 70 | 70 | 90 | 90 | | | 90 | 90 | 90 | 90 |
| Cuivre Copper | Vc | 15~25 | 15~25 | 20~30 | 20~30 | 50~80 | 50~80 | 20~30 | 20~30 | 20~30 | 20~30 |
| Cobre | Ø 10 | 95 | 95 | 120 | 120 | 300 | 300 | 120 | 120 | 120 | 120 |
| Rame | Ø 20 Vf | 60 | 60 | 80 | 80 | 200 | 200 | 80 | 80 | 80 | 80 |
| | Ø 30 | 45 | 45 | 65 | 65 | 175 | 175 | 65 | 65 | 65 | 65 |
| Stratifié Laminated | Vc | 35~70 | 35~70 | 35~70 | 35~70 | | | 50~100 | 50~100 | 50~100 | 50~100 |
| Laminados | Ø 10 | 300 | 300 | 300 | 300 | | | 400 | 400 | 400 | 400 |
| Laminati | Ø 20 Vf | 200 | 200 | 200 | 200 | | | 300 | 300 | 300 | 300 |
| | Ø 30 | 150 | 150 | 150 | 150 | | | 250 | 250 | 250 | 250 |
| Nylon PVC | Vc | 35~70 | 35~70 | 35~70 | 35~70 | | | 50~100 | 50~100 | 50~100 | 50~100 |
| Plastics / Plásticos | Ø 10 | 400 | 400 | 400 | 400 | | | 450 | 450 | 450 | 450 |
| Plastiche | Ø 20 Vf | 300 | 300 | 300 | 300 | | | 350 | 350 | 350 | 350 |
| | Ø 30 | 250 | 250 | 250 | 250 | | | 300 | 300 | 300 | 300 |