



## 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<br>- 1°           | D<br>+ 0,3 | Capacité<br>Capacity<br>Capacidad<br>mini ~ maxi | d<br>h9 | L<br>± 1 | magafor | α<br>- 1°            | TiN     |
|---------------------|------------|--------------------------------------------------|---------|----------|---------|----------------------|---------|
| <b>60°<br/>412</b>  | 10         | 5 ~ 9                                            | 6       | 49       | € 16,65 | <b>60°<br/>4812</b>  | € 21,70 |
|                     | 15         | 8 ~ 14                                           | 8       | 60       | 23,63   |                      | 30,08   |
|                     | 20         | 10 ~ 18                                          | 10      | 71       | 42,97   |                      | 49,95   |
|                     | 25         | 12 ~ 23                                          | 12      | 85       | 67,67   |                      | 76,27   |
|                     | 30         | 15 ~ 28                                          | 12      | 96       | 95,07   |                      | 104,20  |
|                     | 35         | 17 ~ 33                                          | 16 (3)  | 117      | 112,79  |                      | 123,53  |
| <b>82°<br/>414</b>  | 10         | 4 ~ 9                                            | 6       | 46       | 16,65   | <b>82°<br/>4814</b>  | 21,70   |
|                     | 15         | 6 ~ 14                                           | 8       | 56       | 23,63   |                      | 30,08   |
|                     | 20         | 8 ~ 18                                           | 10      | 66       | 42,97   |                      | 49,95   |
|                     | 25         | 10 ~ 23                                          | 12      | 76       | 67,67   |                      | 76,27   |
|                     | 30         | 12 ~ 28                                          | 12      | 89       | 95,07   |                      | 104,20  |
|                     | 35         | 14 ~ 33                                          | 16 (3)  | 108      | 112,79  |                      | 123,53  |
| <b>90°<br/>411</b>  | 10 (1)     | 2 ~ 5                                            | 6       | 45       | 13,69   | <b>90°<br/>4811</b>  | 19,02   |
|                     | 10 (1)     | 4 ~ 9                                            | 6       | 45       | 13,69   |                      | 19,02   |
|                     | 15         | 6 ~ 14                                           | 6 (2)   | 48       | 19,34   |                      | 25,78   |
|                     | 15         | 6 ~ 14                                           | 8 (2)   | 55       | 19,34   |                      | 25,78   |
|                     | 20         | 8 ~ 18                                           | 10      | 65       | 35,45   |                      | 42,97   |
|                     | 25         | 10 ~ 23                                          | 12      | 78       | 56,40   |                      | 64,46   |
|                     | 28         | 11 ~ 26                                          | 12      | 78       | 73,05   |                      | 81,64   |
|                     | 30         | 12 ~ 28                                          | 12      | 87       | 79,50   |                      | 90,24   |
|                     | 35         | 14 ~ 33                                          | 16 (3)  | 106      | 94,00   |                      | 105,28  |
|                     | 40         | 16 ~ 38                                          | 16 (3)  | 121      | 121,39  |                      | 133,21  |
| <b>100°<br/>415</b> | 50         | 20 ~ 48                                          | 16 (3)  | 130      | 174,03  | <b>100°<br/>4815</b> | 189,07  |
|                     | 10         | 4 ~ 9                                            | 6       | 44       | 20,14   |                      | 25,25   |
|                     | 15         | 6 ~ 14                                           | 8       | 54       | 29,00   |                      | 35,45   |
|                     | 20         | 7 ~ 18                                           | 10      | 63       | 53,18   |                      | 60,16   |
|                     | 25         | 9 ~ 23                                           | 12      | 76       | 81,64   |                      | 90,24   |
|                     | 30         | 11 ~ 28                                          | 12      | 85       | 116,02  |                      | 125,68  |
| <b>120°<br/>413</b> | 35         | 13 ~ 33                                          | 16 (3)  | 103      | 140,72  | <b>120°<br/>4813</b> | 151,47  |
|                     | 10         | 4 ~ 9                                            | 6       | 43       | 20,14   |                      | 25,25   |
|                     | 15         | 5 ~ 14                                           | 8       | 52       | 29,00   |                      | 35,45   |
|                     | 20         | 6 ~ 18                                           | 10      | 61       | 53,18   |                      | 60,16   |
|                     | 25         | 8 ~ 23                                           | 12      | 68       | 81,64   |                      | 90,24   |
|                     | 30         | 10 ~ 28                                          | 12      | 82       | 116,02  |                      | 125,68  |
|                     | 35         | 12 ~ 33                                          | 16 (3)  | 99       | 140,72  |                      | 151,47  |

(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

Page  
Pagina 64

Vidéo on line



www.magafor.com



60° - 82° - 90°



| $\alpha$<br>- 1°         | D + 0,3<br># mm (inch) | Capacité<br>Capacity<br>Capacidad<br>mini ~ maxi | d<br>h9 | L<br>± 1 | magafor | $\alpha$<br>- 1°          | TiN     |
|--------------------------|------------------------|--------------------------------------------------|---------|----------|---------|---------------------------|---------|
| <b>60°</b><br><b>412</b> | 0 6,35 (1/4") (1)      | 3 ~ 5                                            | 6,35    | 45       | € 23,90 | <b>60°</b><br><b>4812</b> | € 35,45 |
|                          | 1 11,2 (7/16")         | 5 ~ 10                                           | 6,35    | 45       | 17,99   |                           | 23,85   |
|                          | 2 14,0 (9/16")         | 7 ~ 13                                           | 6,35    | 50       | 23,63   |                           | 30,08   |
|                          | 3 20,4 (13/16")        | 10 ~ 18                                          | 12,7    | 66       | 47,27   |                           | 54,25   |
|                          | 4 30,1 (1-3/16")       | 15 ~ 28                                          | 12,7    | 87       | 100,45  |                           | 114,94  |
| <b>82°</b><br><b>414</b> | 0 6,35 (1/4") (1)      | 2 ~ 5                                            | 6,35    | 45       | 23,90   | <b>82°</b><br><b>4814</b> | 35,45   |
|                          | 1 11,2 (7/16")         | 5 ~ 10                                           | 6,35    | 46       | 17,99   |                           | 23,85   |
|                          | 2 14,0 (9/16")         | 6 ~ 13                                           | 6,35    | 50       | 23,63   |                           | 30,08   |
|                          | 3 20,4 (13/16")        | 9 ~ 18                                           | 12,7    | 66       | 47,27   |                           | 54,25   |
|                          | 4 30,1 (1-3/16")       | 12 ~ 28                                          | 12,7    | 80       | 100,45  |                           | 114,94  |
| <b>90°</b><br><b>411</b> | 0 6,35 (1/4") (1)      | 2 ~ 5                                            | 6,35    | 45       | 19,34   | <b>90°</b><br><b>4811</b> | 31,15   |
|                          | 1 11,2 (7/16")         | 5 ~ 10                                           | 6,35    | 45       | 14,51   |                           | 20,52   |
|                          | 2 14,0 (9/16")         | 6 ~ 13                                           | 6,35    | 50       | 19,34   |                           | 25,78   |
|                          | 3 20,4 (13/16")        | 9 ~ 18                                           | 12,7    | 66       | 38,67   |                           | 46,19   |
|                          | 4 30,1 (1-3/16")       | 12 ~ 28                                          | 12,7    | 78       | 80,57   |                           | 93,46   |

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

## CÔNES MORSE MORSE TAPER CONO MORSE

60° - 90° - 120°



| $\alpha$<br>- 1°          | D<br>+ 0,3 | Capacité<br>Capacity<br>Capacidad<br>mini ~ maxi | MORSE<br>N° * | L<br>± 1 | magafor |
|---------------------------|------------|--------------------------------------------------|---------------|----------|---------|
| <b>60°</b><br><b>412</b>  | 20         | 10 ~ 18                                          | 1             | 97       | € 61,77 |
|                           | 25         | 12 ~ 23                                          | 1             | 104      | 89,70   |
|                           | 30         | 15 ~ 28                                          | 2             | 125      | 92,92   |
|                           | 40         | 20 ~ 38                                          | 2             | 160      | 166,51  |
|                           | 45         | 22 ~ 43                                          | 3             | 158      | 220,22  |
|                           | 50         | 25 ~ 48                                          | 3             | 170      | 235,26  |
|                           | 60         | 30 ~ 58                                          | 3             | 175      | 319,05  |
|                           | 80         | 40 ~ 77                                          | 4             | 253      | 592,99  |
| <b>90°</b><br><b>411</b>  | 15         | 6 ~ 14                                           | 1             | 91       | 38,14   |
|                           | 20         | 8 ~ 18                                           | 1             | 94       | 53,71   |
|                           | 25         | 10 ~ 23                                          | 1             | 101      | 77,35   |
|                           | 30         | 12 ~ 28                                          | 2             | 120      | 80,57   |
|                           | 35         | 14 ~ 33                                          | 2             | 134      | 112,79  |
|                           | 40         | 16 ~ 38                                          | 2             | 149      | 142,87  |
|                           | 40         | 16 ~ 38                                          | 3             | 164      | 121,39  |
|                           | 50         | 20 ~ 48                                          | 2             | 158      | 195,52  |
|                           | 50         | 20 ~ 48                                          | 3             | 172      | 206,26  |
|                           | 63         | 26 ~ 60                                          | 3             | 184      | 280,39  |
|                           | 80         | 32 ~ 77                                          | 4             | 229      | 516,71  |
|                           | 20         | 6 ~ 18                                           | 1             | 92       | 67,67   |
| <b>120°</b><br><b>413</b> | 30         | 10 ~ 28                                          | 2             | 117      | 114,94  |
|                           | 35         | 12 ~ 33                                          | 2             | 112      | 148,25  |
|                           | 40         | 14 ~ 38                                          | 3             | 153      | 157,91  |
|                           | 50         | 16 ~ 48                                          | 2             | 149      | 253,53  |

\* 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

60° - 82° - 90° - 100° - 120°

| COMPOSITION<br>COMPOSICIÓN<br>COMPOSIZIONE                     | $\alpha$    | magafor         | €      |
|----------------------------------------------------------------|-------------|-----------------|--------|
| 5 fraises<br>fresas<br>freses<br>Ø 10 - 15 - 20<br>25 - 30     | <b>60°</b>  | <b>412</b>      | 238,49 |
|                                                                |             | <b>4812</b> TiN | 257,82 |
|                                                                | <b>82°</b>  | <b>414</b>      | 238,49 |
|                                                                |             | <b>4814</b> TiN | 257,82 |
|                                                                | <b>90°</b>  | <b>411</b>      | 196,58 |
|                                                                |             | <b>4811</b> TiN | 241,70 |
|                                                                | <b>100°</b> | <b>415</b>      | 290,05 |
|                                                                |             | <b>4815</b>     | 302,94 |
|                                                                | <b>120°</b> | <b>413</b>      | 290,05 |
|                                                                |             | <b>4813</b>     | 302,94 |
| 5 fraises<br>fresas<br>freses<br>(inch)<br># 0 - 1 - 2 - 3 - 4 | <b>60°</b>  | <b>412/5</b>    | 206,26 |
|                                                                | <b>82°</b>  | <b>414/5</b>    | 206,26 |
|                                                                | <b>90°</b>  | <b>411/5</b>    | 166,51 |

Promo-kits

