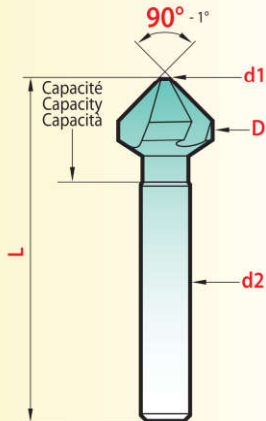
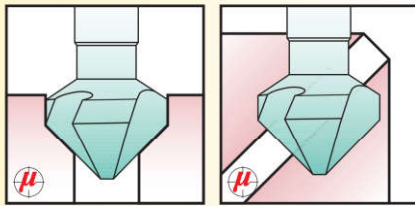


TRI-DENT



FRAISES À NOYER
Trois dents
90° - HSS - HSS-Co

Three flute
COUNTERSINKS

AVELLANADORES
De tres labios
90° - HSS - HSS-Co

FRESE CONICHE
con tre denti

90°

DIN 335 - C



| D z9 mm (inch) | d1 maxi | d2 h9 | L ± 1 | Classic 4307 | magafor 431 | TiN 4831 | Red'X 4931 |
|-------------------|------------|----------|----------|------------------------|-----------------------|--------------------|----------------------|
| 4,0 | 1,3 | 4 | 40 | | | | |
| 4,3 | 1,3 | 4 | 40 | | | | |
| 5,0 | 1,5 | 4 | 40 | | | | |
| 5,3 | 1,5 | 4 | 40 | | | | |
| 5,8 | 1,5 | 5 (1) | 45 | | | | |
| 5,8 | 1,5 | 6 (1) | 45 | | | | |
| 6,0 | 1,5 | 5 (1) | 45 | | | | |
| 6,0 | 1,5 | 6 (1) | 45 | | | | |
| 6,3 | 1,5 | 5 (1) | 45 | | | | |
| 6,3 | 1,5 | 6 (1) | 45 | | | | |
| 6,35 (1/4") | 1,5 | 6,35 | 45 | | | | |
| 7,0 | 1,8 | 6 | 50 | | | | |
| 7,3 | 1,8 | 6 | 50 | | | | |
| 7,93 (5/16") | 2,0 | 6,35 | 45 | | | | |
| 8,0 | 2,0 | 6 | 50 | | | | |
| 8,3 | 2,0 | 6 | 50 | | | | |
| 9,0 | 2,2 | 6 | 50 | | | | |
| 9,4 | 2,2 | 6 | 50 | | | | |
| 9,52 (3/8") | 2,5 | 6,35 | 50 | | | | |
| 10,0 | 2,5 | 6 | 50 | | | | |
| 10,4 | 2,5 | 6 | 50 | | | | |
| 11,5 | 2,8 | 8 | 56 | | | | |
| 12,0 | 2,8 | 8 | 56 | | | | |
| 12,4 | 2,8 | 8 | 56 | | | | |
| 12,70 (1/2") | 2,9 | 6,35 | 50 | | | | |
| 13,4 | 2,9 | 8 | 56 | | | | |
| 14,4 | 2,9 | 8 | 56 | | | | |
| 15,0 | 3,2 | 8 (1) | 56 | | | | |
| 15,0 | 3,2 | 10 (1) | 60 | | | | |
| 15,87 (5/8") | 3,2 | 9,52 | 60 | | | | |
| 16,5 | 3,2 | 8 (1) | 56 | | | | |
| 16,5 | 3,2 | 10 (1) | 60 | | | | |
| 19,0 | 3,5 | 10 | 63 | | | | |
| 19,05 (3/4") | 3,5 | 9,52 | 60 | | | | |
| 20,5 | 3,5 | 10 | 63 | | | | |
| 23,0 | 3,8 | 10 | 67 | | | | |
| 25,0 | 3,8 | 10 | 67 | | | | |
| 25,4 (1") | 3,8 | 9,52 | 70 | | | | |
| 26,0 | 3,8 | 10 | 67 | | | | |
| 28,0 | 4,0 | 12 | 71 | | | | |
| 30,0 | 4,2 | 12 | 71 | | | | |
| 31,0 | 4,2 | 12 | 71 | | | | |

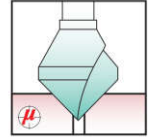
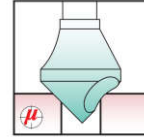
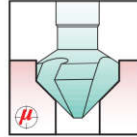
(1) Préciser le Ø de queue sur vos commandes Please mention the shank Ø when ordering.
Precisar el diámetro del mango en el pedido. Precisare nei vostri ordini il Ø del codolo.



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
 Suggestimento

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