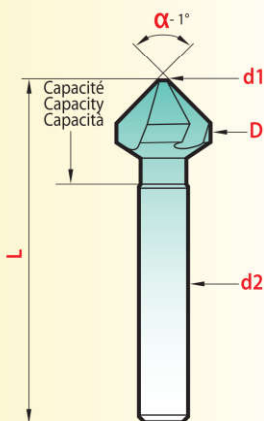
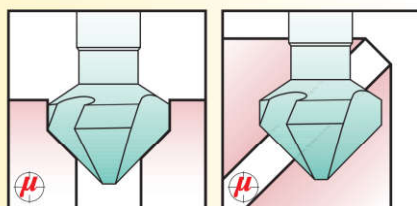


TRI-DENT



FRAISES À NOYER Trois dents

Les fraises **magaforce** sont en CARBURE MONOBLOC. Cette conception leur confère une solidité unique.

Three flute COUNTERSINKS

The **magaforce** cutters are made from SOLID CARBIDE. This design offers a unique strength.

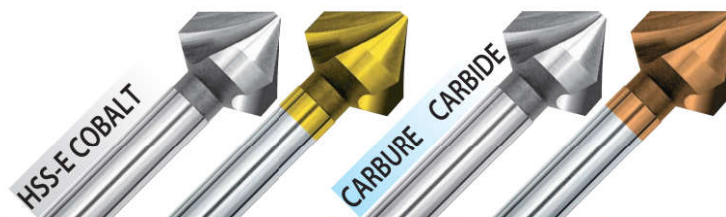
AVELLANADORES De tres labios

Las herramientas **magaforce** están fabricadas en METAL DURO INTEGRAL. Este concepto ofrece una rigidez única.

FRESE CONICHE con tre denti

Le frese **magaforce** sono in METALLO DURO INTEGRALE. Questa struttura conferisce loro una solidità unica.

82°



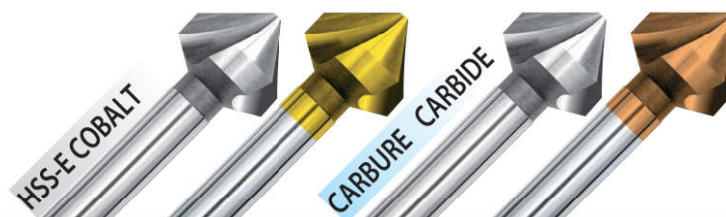
D z9	d1	d2	L	magafor	TiN	magaforce	Hard'X
mm (inch)	maxi	h9	± 1	434	4834	8434	8434-H
6,3	1,5	5	45				
6,35 (1/4")	1,5	6,35	45				
7,93 (5/16")	2,0	6,35	45				
8,3	2,0	6	50				
9,52 (3/8")	2,5	6,35	50				
10,4	2,5	6	50				
12,4	2,8	8	56				
12,70 (1/2")	2,9	6,35	50				
15,87 (5/8")	3,2	9,52	60				
16,5	3,2	10	61				
19,05 (3/4")	3,5	9,52	60				
20,5	3,5	10	64				
25,0	3,8	10	68				
25,40 (1")	3,8	9,52	70				
31,0	4,2	12	73				

* Queues with 3 flats for optimum tool holding.
Shanks with 3 flats to optimize tool holding.
3 planos en el mango para optimizar la sujeción de la herramienta.
Codolo con 3 piani per un bloccaggio ottimale dell'utensile.

performances

Page 64
Pagina

100°



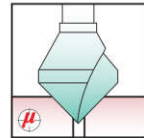
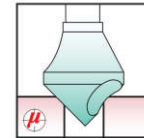
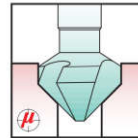
D z9	d1	d2	L	magafor	TiN	magaforce	Hard'X
mm (inch)	maxi	h9	± 1	435	4835	8435	8435-H
6,3	1,5	5	44				
8,3	2,0	6	49				
10,4	2,5	6	49				
12,4	2,8	8	55				
16,5	3,2	10	59				
20,5	3,5	10	62				
25,0	3,8	10	65				
31,0	4,2	12	68				

* Queues with 3 flats for optimum tool holding.
Shanks with 3 flats to optimize tool holding.
3 planos en el mango para optimizar la sujeción de la herramienta.
Codolo con 3 piani per un bloccaggio ottimale dell'utensile.

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	47 ~ 57		49		49 ~ 56		60 - 61		62 - 63	
Aciers	Vc	17~22	17~22	35~45	35~45	40~80	40~80	35~45	35~45	35~45	35~45
Steels	Ø 10	85	85	165	165	250	250	165	165	165	165
Aceros	Vf	45	45	85	85	125	125	85	85	85	85
Acciai	Ø 30	30	30	55	55	85	85	55	55	55	55
Aciers	Vc	10~15	10~15	20~30	20~30	30~60	30~60	20~30	20~30	20~30	20~30
Steels	Ø 10	60	60	110	110	170	170	110	110	110	110
Aceros	Vf	30	30	55	55	85	85	55	55	55	55
Acciai	Ø 30	20	20	35	35	60	60	35	35	35	35
Aciers	Vc	8~12	8~12	16~20	16~20	20~40	20~40	15~20	15~20	15~20	15~20
Steels	Ø 10	35	35	55	55	100	100	55	55	55	55
Aceros	Vf	25	25	35	35	60	60	35	35	35	35
Acciai	Ø 30	15	15	25	25	45	45	25	25	25	25
Inox	Vc	6~10	6~10	12~15	12~15	20~40	20~40	12~15	12~15	12~15	12~15
Stainless steel	Ø 10	30	30	45	45	100	100	45	45	45	45
Aceros Inoxidables	Vf	15	15	25	25	60	60	25	25	25	25
1000 ~ 1300 N/mm ²	Ø 30	10	10	20	20	40	40	20	20	20	20
Acier anti-abrasion	Vc				12~15	15~20	15~20				
Abrasive tough	Ø 10				40	55	55				
Steel < 420 HB	Vf				30	35	35				
Acero resistente a la abrasión	Ø 30				20	25	25				
Bronze dur	Vc			4~6	4~6	10~12	10~12				
Inconel, Nimonic	Ø 10			16	16	30	30				
Hard bronze	Vf			8	8	16	16				
Bronze/Bronzo duro	Ø 30			6	6	10	10				
Acier traité	Vc					8~10	10~12				
Treated steel	Ø 10					20	30				
≥ 60 HRC	Vf					10	16				
Acero tratado	Acciai trattati	Ø 30				8	10				
Fonte	Vc	15~25	15~25	20~40	20~40	40~80	40~80	20~40	20~40	20~40	20~40
Cast iron	Ø 10	70	70	125	125	250	250	125	125	125	125
Fundición	Vf	40	40	75	75	150	150	75	75	75	75
Ghisa	Ø 30	30	30	50	50	100	100	50	50	50	50
Aluminium	Vc	35~45	35~45	50~60	50~60	40~100	40~100	50~60	50~60	50~60	50~60
Alluminio	Ø 10	200	200	255	255	350	350	255	255	255	255
	Vf	130	130	180	180	230	230	180	180	180	180
	Ø 30	110	110	150	150	200	200	150	150	150	150
Laiton	Vc	20~30	20~30	30~40	30~40			30~40	30~40	30~40	30~40
Brass	Ø 10	120	120	150	150			150	150	150	150
Bronze	Vf	85	85	110	110			110	110	110	110
Latòn - Bronce	Ø 20										
Bronzo	Ø 30	70	70	90	90			90	90	90	90
Cuivre	Vc	15~25	15~25	20~30	20~30	50~80	50~80	20~30	20~30	20~30	20~30
Copper	Ø 10	95	95	120	120	300	300	120	120	120	120
Cobre	Vf	60	60	80	80	200	200	80	80	80	80
Rame	Ø 30	45	45	65	65	175	175	65	65	65	65
Stratifié	Vc	35~70	35~70	35~70	35~70			50~100	50~100	50~100	50~100
Laminated	Ø 10	300	300	300	300			400	400	400	400
Laminados	Vf	200	200	200	200			300	300	300	300
Laminati	Ø 30	150	150	150	150			250	250	250	250
Nylon	Vc	35~70	35~70	35~70	35~70			50~100	50~100	50~100	50~100
PVC	Ø 10	400	400	400	400			450	450	450	450
Plastics / Plásticos	Vf	300	300	300	300			350	350	350	350
Plastiche	Ø 30	250	250	250	250			300	300	300	300