

DIAMETAL®

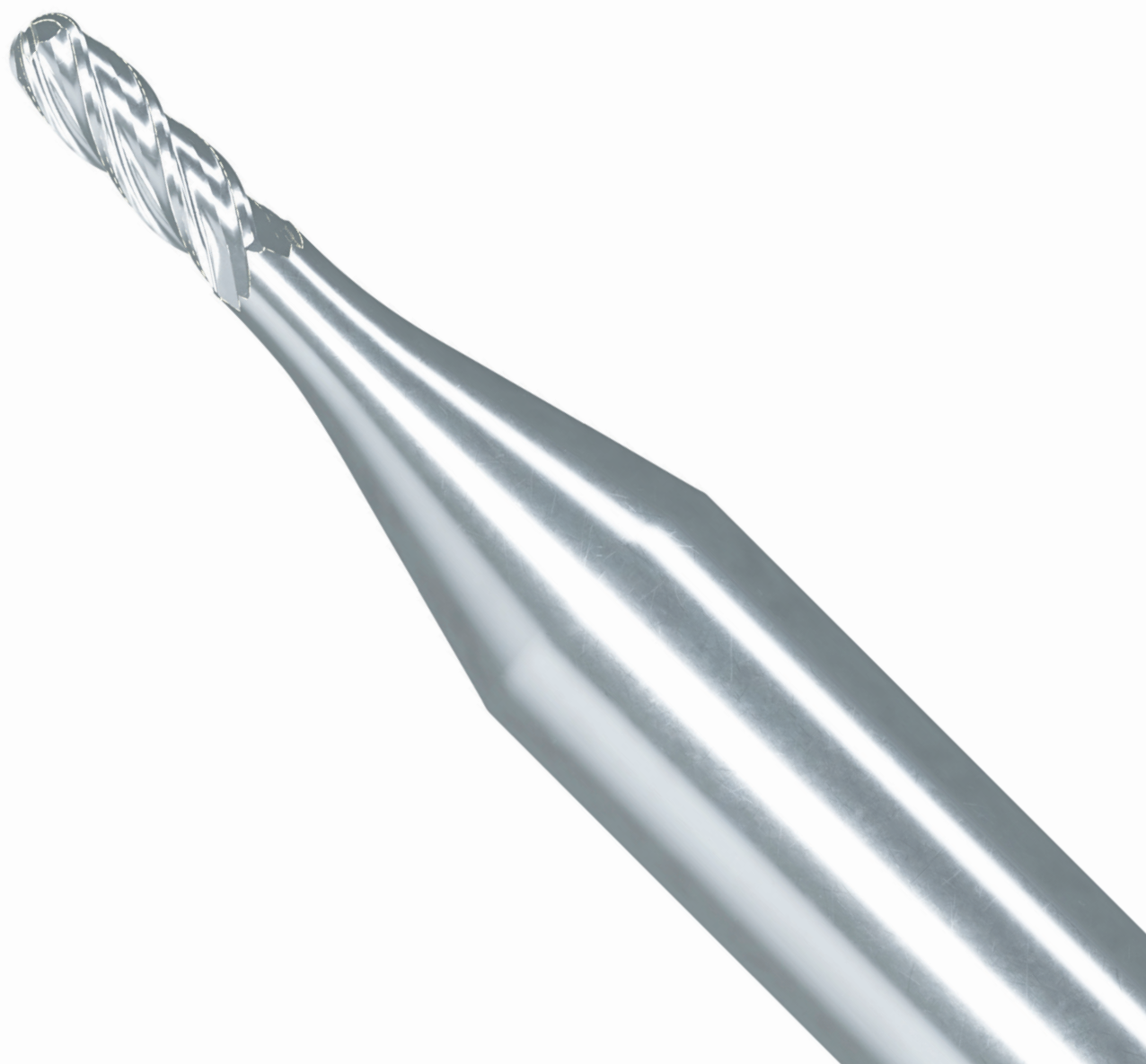
DIAMILL MICRO

FR-IT

DIAmill_{micro}

Solutions complètes
pour les micromachines

*Soluzioni complete
per le micro macchine*





DIAmillmicro

Table des matières
Indice dei contenuti

DIAmillmicro

Applications
Applicazioni

MI0114-NR01120

Fraise en bout avec chanfrein
Fresa cilindrica con smusso d'angolo

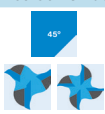
MI0116-NR01102

Fraise en bout hémisphérique Z2
Fresa cilindrica emisférica Z2

MI0116-AR01101

Fraise en bout hémisphérique Z4
Fresa cilindrica emisférica Z4

67**68****70****72****74**

		Outil Utensile	Fraise en bout avec chanfrein Fresa cilíndrica con smusso d'angolo	Fraise en bout hémisphérique Z2 Fresa cilíndrica emisférica Z2	Fraise en bout hémisphérique Z4 Fresa cilíndrica emisférica Z4
Géométrie frontale Geometria frontale					
Nombre de dents Numero di denti					
Profondeur Profondità			2.5xD	1.5xD	
Angle d'hélice Angolo dell'elica					
Revêtement Rivestimento			DWS	DWS	DWX
Codification Codifica			MI0114-NR01120	MI0116-NR01102	MI0116-AR01101
					
Pages Pagine			70	72	74
ISO	Matières à usiner Materiali da lavorare		Ø 0.30 - 3.00	Ø 0.20 - 3.00	Ø 1.00 - 3.00
P1	Aciers de décolletage Acciai automatici				
P2	Aciers de décolletage sans plomb Acciai automatici senza piombo				
P3	Aciers non alliés (Rm < 800 N/mm²) Acciai non legati (Rm < 800 N/mm²)				
P4	Aciers faiblement alliés (Rm < 900 N/mm²) Acciai debolmente legati (Rm < 900 N/mm²)				
P5	Aciers fortement alliés (Rm < 1200 N/mm²) Acciai fortemente legati (Rm < 1200 N/mm²)				
M1	Aciers inoxydables ferritiques Acciai inossidabili ferritici				
M2	Aciers inoxydables martensitiques Acciai inossidabili martensitici				
M3	Aciers inoxydables austénitiques Acciai inossidabili austenitici				
K1	Fontes Ghise				
N1	Fontes d'aluminium Fusioni d'alluminio				
N2	Alliages d'aluminium Leghe d'alluminio				
N3	Laiton. Bronze Ottone. Bronzo				
N4	Laiton sans plomb Ottone senza piombo				
N5	Cuivre Rame				
N6	Métaux précieux Metalli preziosi				
N7	Platine. Palladium Platino. Palladio				
N8	Matières plastiques Materiali plastici				
S1	Titane pur Titanio puro				
S2	Alliages de titane Leghe di titanio				
S3	Superalliages (Cr. Co. Ni) Superleghe (Cr. Co. Ni)				
H1	Aciers trempés (< 55 HRC) Acciai temprati (< 55 HRC)				
H2	Aciers trempés (> 55 HRC) Acciai temprati (> 55 HRC)				



MI0114-NR01120

Fraise en bout avec chanfrein
Fresa cilindrica con smusso d'angolo



P1	P2	P3	P4	P5	M1	M2	M3	K1	N1	N2
N3	N4	N5	N6	N7	N8	S1	S2	S3	H1	

Cer										
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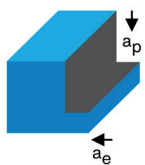
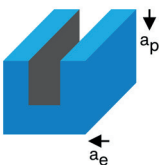


D1	L1	D2	L2	Z	C	DWS Art. N°
0.30	0.75	3	29	3	0.01x45°	460517
0.40	1.00	3	29	4	0.01x45°	460518
0.50	1.25	3	29	4	0.01x45°	460519
0.60	1.50	3	29	4	0.01x45°	460520
0.80	2.00	3	29	4	0.01x45°	460521
1.00	2.50	3	29	4	0.01x45°	460522
1.50	3.75	3	29	4	0.01x45°	460523
2.00	5.00	3	29	4	0.01x45°	460524
2.50	6.25	3	29	4	0.01x45°	460525
3.00	7.50	4	29	4	0.01x45°	460526

Autres dimensions et revêtements sur demande
Altre dimensioni e rivestimenti su richiesta

MIO114-NR01120

Paramètres de coupe
Parametri di taglio

Application Applicazione	Contournage Contornatura	Rainurage Fresatura di cava
Fonction Funzione		
	a_p	a_p
	$2 \times D_1$	$0.1 \times D_1$
	a_e	a_e
	$0.02 \times D_1$	$1 \times D_1$

		f_z [mm]		
ISO	V_c [m/min]	Ø 0.30 - 0.80	Ø 0.90 - 1.20	Ø 1.30 - 3.00
P1	320 - 400	0.008 - 0.020	0.015 - 0.030	0.020 - 0.040
P2	320 - 400	0.008 - 0.020	0.015 - 0.030	0.020 - 0.040
P3	320 - 400	0.008 - 0.020	0.015 - 0.030	0.020 - 0.040
P4	270 - 330	0.008 - 0.020	0.015 - 0.030	0.020 - 0.040
P5	250 - 320	0.008 - 0.020	0.015 - 0.030	0.020 - 0.040
M1	280 - 350	0.007 - 0.015	0.010 - 0.030	0.015 - 0.035
M2	280 - 350	0.007 - 0.015	0.010 - 0.030	0.015 - 0.035
M3	280 - 350	0.007 - 0.015	0.010 - 0.030	0.015 - 0.035
K1	350 - 450	0.008 - 0.025	0.020 - 0.040	0.030 - 0.060
N1	350 - 450	0.008 - 0.025	0.020 - 0.040	0.030 - 0.060
N2	350 - 450	0.008 - 0.025	0.020 - 0.040	0.030 - 0.060
N3	350 - 450	0.008 - 0.025	0.020 - 0.040	0.030 - 0.060
N4	350 - 450	0.008 - 0.025	0.020 - 0.040	0.030 - 0.060
N5	350 - 450	0.008 - 0.025	0.020 - 0.040	0.030 - 0.060
N6	250 - 300	0.008 - 0.025	0.020 - 0.040	0.030 - 0.060
N7	250 - 300	0.008 - 0.025	0.020 - 0.040	0.030 - 0.060
N8	350 - 450	0.008 - 0.025	0.020 - 0.040	0.030 - 0.060
S1	280 - 350	0.008 - 0.015	0.015 - 0.030	0.025 - 0.045
S2	280 - 350	0.008 - 0.015	0.015 - 0.030	0.025 - 0.045
S3	280 - 350	0.008 - 0.015	0.015 - 0.030	0.025 - 0.045
H1	280 - 350	0.003 - 0.005	0.004 - 0.006	0.005 - 0.008
H2				

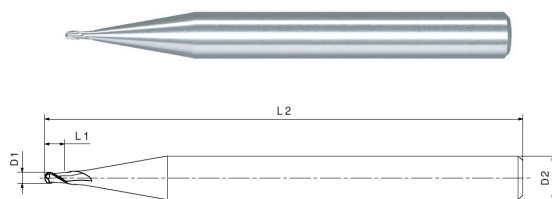
Valeurs indicatives
Valori indicativi

MI0116-NR01102

Fraise en bout hémisphérique Z2
Fresa cilíndrica emisférica Z2



P1	P2	P3	P4	P5	M1	M2	M3	K1	N1	N2
N3	N4	N5	N6	N7	N8	S1	S2	S3	H1	



D1	L1	D2	L2	Z	DWX Art. N°
0.20	0.30	3	29	2	460466
0.30	0.45	3	29	2	460467
0.40	0.60	3	29	2	460468
0.50	0.75	3	29	2	460469
0.60	0.90	3	29	2	460470
0.70	1.05	3	29	2	460471
0.80	1.20	3	29	2	460472
0.90	1.35	3	29	2	460473
1.00	1.50	3	29	2	460474
1.10	1.65	3	29	2	460475
1.20	1.80	3	29	2	460476
1.30	1.95	3	29	2	460477
1.40	2.10	3	29	2	460478
1.50	2.25	3	29	2	460479
1.60	2.40	3	29	2	460480
1.70	2.50	3	29	2	460481
1.80	2.70	3	29	2	460482
1.90	2.85	3	29	2	460483
2.00	3.00	3	29	2	460484
2.50	3.75	3	29	2	460485
3.00	4.50	3	29	2	460486
3.00	9.00	3	29	2	460487

Autres dimensions et revêtements sur demande
Altre dimensioni e rivestimenti su richiesta

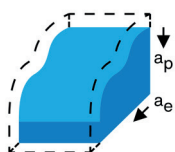
MI0116-NR01102

Paramètres de coupe
Parametri di taglio

Application
Applicazione

Copiage 3D
Copiatura 3D

Fonction
Funzione



a_p	$0.1 \times D_1$
a_e	$0.3 \times D_1$

ISO	V_c [m/min]	f_z [mm]		
		$\varnothing 0.30 - 0.80$	$\varnothing 0.90 - 1.20$	$\varnothing 1.30 - 3.00$
P1	320 - 400	0.008 - 0.020	0.015 - 0.030	0.025 - 0.045
P2	320 - 400	0.008 - 0.020	0.015 - 0.030	0.025 - 0.045
P3	320 - 400	0.008 - 0.020	0.015 - 0.030	0.025 - 0.045
P4	270 - 330	0.008 - 0.020	0.015 - 0.030	0.025 - 0.045
P5	250 - 320	0.008 - 0.020	0.015 - 0.030	0.025 - 0.045
M1	280 - 350	0.007 - 0.015	0.010 - 0.030	0.020 - 0.040
M2	280 - 350	0.007 - 0.015	0.010 - 0.030	0.020 - 0.040
M3	280 - 350	0.007 - 0.015	0.010 - 0.030	0.020 - 0.040
K1	350 - 450	0.008 - 0.025	0.020 - 0.040	0.030 - 0.050
N1	350 - 450	0.008 - 0.025	0.020 - 0.040	0.030 - 0.050
N2	350 - 450	0.008 - 0.025	0.020 - 0.040	0.030 - 0.050
N3	350 - 450	0.008 - 0.025	0.020 - 0.040	0.030 - 0.050
N4	350 - 450	0.008 - 0.025	0.020 - 0.040	0.030 - 0.050
N5	350 - 450	0.008 - 0.025	0.020 - 0.040	0.030 - 0.050
N6	250 - 300	0.008 - 0.025	0.020 - 0.040	0.030 - 0.050
N7	250 - 300	0.008 - 0.025	0.020 - 0.040	0.030 - 0.050
N8	350 - 450	0.008 - 0.025	0.020 - 0.040	0.030 - 0.050
S1	280 - 350	0.008 - 0.015	0.015 - 0.030	0.025 - 0.035
S2	280 - 350	0.008 - 0.015	0.015 - 0.030	0.025 - 0.035
S3	280 - 350	0.008 - 0.015	0.015 - 0.030	0.025 - 0.035
H1	280 - 350	0.003 - 0.005	0.004 - 0.006	0.005 - 0.007
H2				

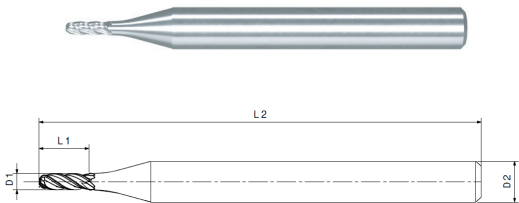
Valeurs indicatives
Valori indicativi

MI0116-AR01101

Fraise en bout hémisphérique Z4
Fresa cilíndrica emisférica Z4



M1	M2	M3
S1	S2	S3



D1	L1	D2	L2	Z	DWX Art. N°
1.00	3.00	3	29	4	460496
1.50	4.50	3	29	4	460497
2.00	6.00	3	29	4	460498
2.50	7.00	3	29	4	460499
3.00	8.00	6	29	4	460500

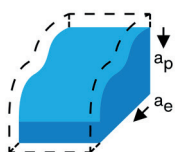
MI0116-AR01101

Paramètres de coupe
Parametri di taglio

Application
Applicazione

Copiage 3D
Copiatura 3D

Fonction
Funzione



a_p	$0.1 \times D_1$
a_e	$0.1 \times D_1$

ISO	V_c [m/min]	f_z [mm]		
		$\varnothing 0.30 - 0.80$	$\varnothing 0.90 - 1.20$	$\varnothing 1.30 - 3.00$
P1				
P2				
P3				
P4				
P5				
M1	280 - 350	0.007 - 0.015	0.010 - 0.030	0.020 - 0.040
M2	280 - 350	0.007 - 0.015	0.010 - 0.030	0.020 - 0.040
M3	280 - 350	0.007 - 0.015	0.010 - 0.030	0.020 - 0.040
K1				
N1				
N2				
N3				
N4				
N5				
N6				
N7				
N8				
S1	280 - 350	0.008 - 0.015	0.015 - 0.030	0.025 - 0.035
S2	280 - 350	0.008 - 0.015	0.015 - 0.030	0.025 - 0.035
S3	280 - 350	0.008 - 0.015	0.015 - 0.030	0.025 - 0.035
H1				
H2				

Valeurs indicatives
Valori indicativi





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