DIAMETAL®

DIAMILL MICRO

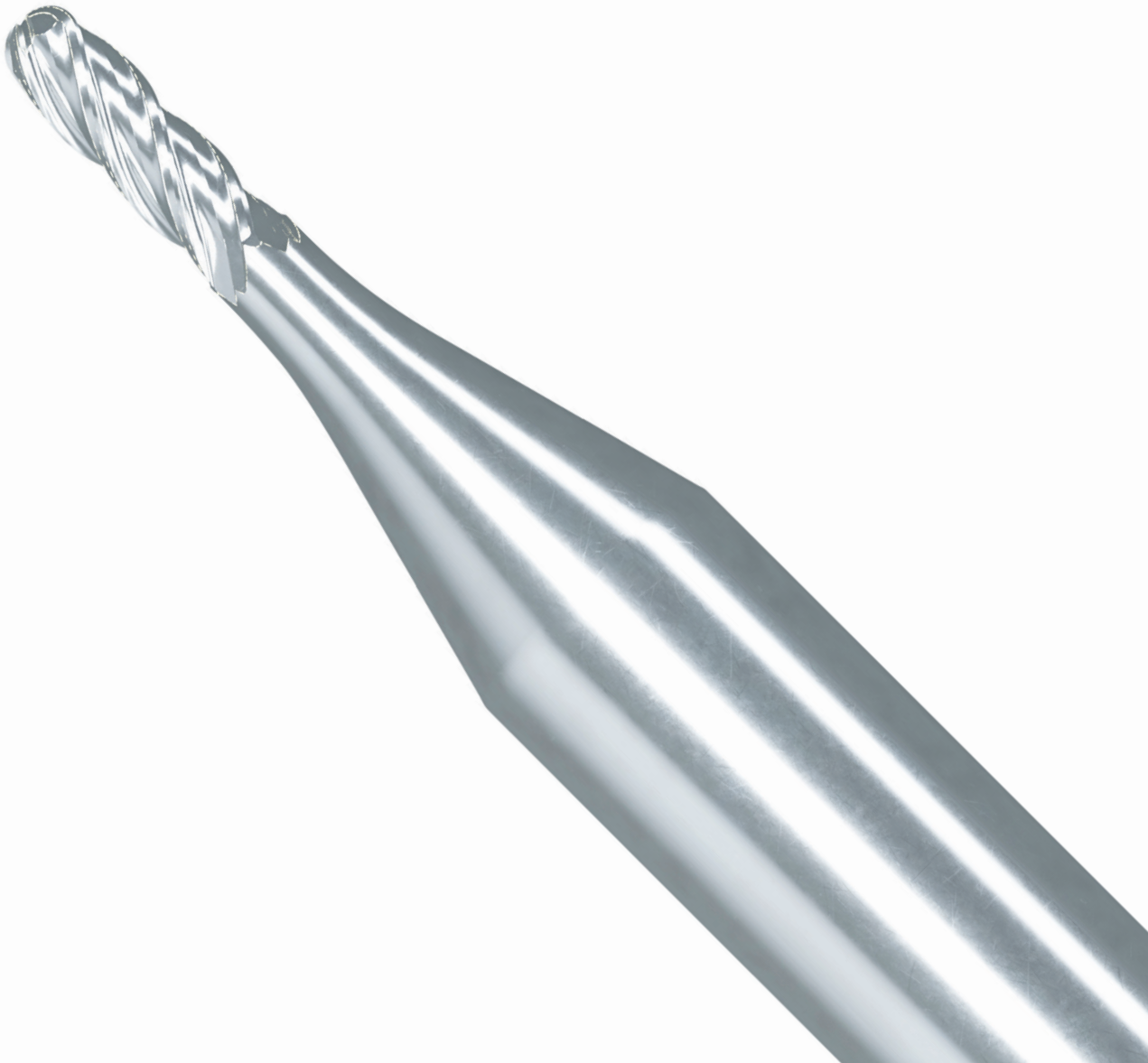
FR·IT

DIAMETAL
SWISS CUTTING TOOLS

DIAmill micro

Solutions complètes pour les micromachines

Soluzioni complete per le micro macchine



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DIAmill micro

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DIAmill micro

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DIAmill micro

Applications
Applicazioni

	Outil *Utensile*	Fraise en bout avec chanfrein *Fresa cilindrica con smusso d'angolo*	Fraise en bout hémisphérique Z2 *Fresa cilindrica emisférica Z2*	Fraise en bout hémisphérique Z4 *Fresa cilindrica emisférica Z4*
	Géometrie frontale *Geometria frontale*	45°		
	Nombre de dents *Numero di denti*			
	Profondeur *Profondità*	2.5xD	1.5xD	
	Angle d'helice *Angolo dell'elica*	30°	33°	30°
	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)*			

▸▸▸ Optimal / *Scelta eccellente* ▸▸ Bon / *Buona scelta* ▸ Fonctionel / *Scelta funzionale*

Valeurs indicatives
Valori indicativi

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MI0114-NR01120

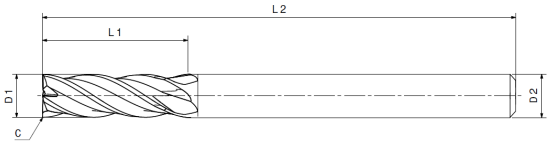
Fraise en bout avec chanfrein
Fresa cilindrica con smusso d'angolo



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







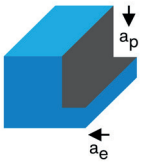
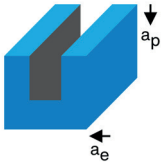
D1	L1	D2	L2	Z	C	DWS Art. N°
0.30	0.75	3	29	3	0.01x45°	**460517**
0.40	1.00	3	29	4	0.01x45°	**460518**
0.50	1.25	3	29	4	0.01x45°	**460519**
0.60	1.50	3	29	4	0.01x45°	**460520**
0.80	2.00	3	29	4	0.01x45°	**460521**
1.00	2.50	3	29	4	0.01x45°	**460522**
1.50	3.75	3	29	4	0.01x45°	**460523**
2.00	5.00	3	29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

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MIO114-NRO1120

Paramètres de coupe
Parametri di taglio

Application *Applicazione*	Contournage *Contornatura*		Rainurage *Fresatura di cava*	
Fonction *Funzione*				
	a_p	$2xD_1$	a_p	$0.1xD_1$
	a_e	$0.02xD_1$	a_e	$1xD_1$

		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

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MI0116-NR01102

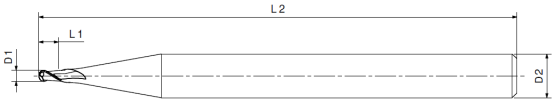
Fraise en bout hémisphérique Z2
Fresa cilindrica emisférica Z2



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







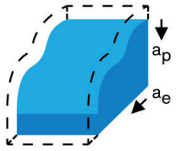
D1	L1	D2	L2	Z	DWX Art. N°
0.20	0.30	3	29	2	**460466**
0.30	0.45	3	29	2	**460467**
0.40	0.60	3	29	2	**460468**
0.50	0.75	3	29	2	**460469**
0.60	0.90	3	29	2	**460470**
0.70	1.05	3	29	2	**460471**
0.80	1.20	3	29	2	**460472**
0.90	1.35	3	29	2	**460473**
1.00	1.50	3	29	2	**460474**
1.10	1.65	3	29	2	**460475**
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

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MI0116-NR01102

Paramètres de coupe
Parametri di taglio

Application *Applicazione*	Copiage 3D *Copiatura 3D*
Fonction *Funzione*	
a_p	$0.1xD_1$
a_e	$0.3xD_1$

		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	0.025 - 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

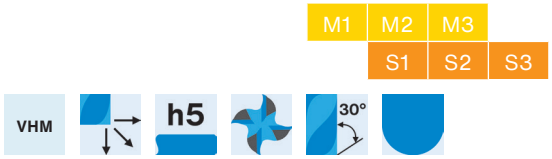
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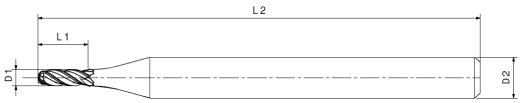
MI0116-AR01101

Fraise en bout hémisphérique Z4
Fresa cilindrica emisférica Z4









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**

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

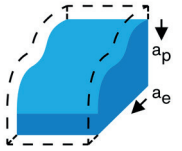
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MI0116-AR01101

Paramètres de coupe
Parametri di taglio

Application *Applicazione*	Copiage 3D *Copiatura 3D*

Fonction *Funzione*



a_p	0.1xD1
a_e	0.1xD1

		f_z [mm]		
ISO	V_c [m/min]	Ø 0.30 - 0.80	Ø 0.90 - 1.20	Ø 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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