

FRAISES 3D

Fraises

Fräser

End mills

Frese

1

2

0

0

2

7

2

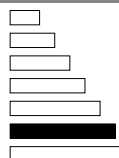
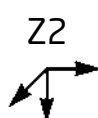
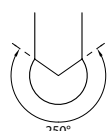
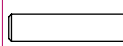
0

S

120.027.20S

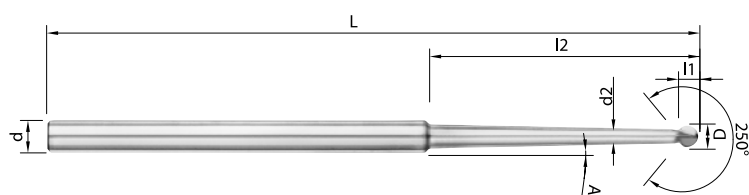
MD
HM/SC
MG

Fraises
Fräser
End mills
Frese



$\lambda 15^\circ$
 $\gamma \sim 3^\circ$

AlTiN



OPTI
méga

nouveau

Type HSC
Norme OPTI

D_{f8}	R	l_1	$d_{2+0/-0.02}$	A	l_2	d_{h5}	L	Z	Revêtu AlTiN
1	0.5	(0.79)	0.7	1.5°	20	3	60	2	120.027.20S-01
1.2	0.6	(0.94)	0.8	1.5°	20	3	60	2	120.027.20S-01.2
1.4	0.7	(1.10)	0.9	1.5°	22	3	60	2	120.027.20S-01.4
1.5	0.75	(1.18)	1	1.5°	22	3	60	2	120.027.20S-01.5
1.6	0.8	(1.26)	1.2	1.5°	22	3	60	2	120.027.20S-01.6
1.8	0.9	(1.42)	1.3	1.5°	25	3	60	2	120.027.20S-01.8
2	1	(1.57)	1.35	1.5°	25	3	60	2	120.027.20S-02-3
2	1	(1.57)	1.35	1.5°	25	6	80	2	120.027.20S-02-6
3	1.5	(2.36)	2.3	1.5°	30	6	80	2	120.027.20S-03
4	2	(3.15)	3.1	2.5°	35	6	80	2	120.027.20S-04
5	2.5	(3.93)	3.85	1.5°	45.5	6	90	2	120.027.20S-05
6	3	(4.72)	4.26	0.75°	50	6	100	2	120.027.20S-06

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MICRO fraises

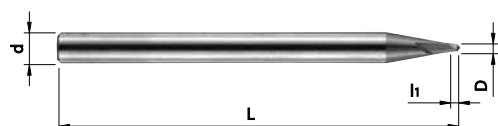
Micro fraises

Mikro Fräser

Micro end mills

Micro frese

2	1	0	2	2	0	3	0	M	210.220.30	210.220.30M
MD HM/SC MG KX10	MICRO fraises MIKRO Fräser MICRO end mills MICRO frese			Z2 		$\lambda 30^\circ$ $\gamma \sim 10^\circ$		PSNM		



OPTI
micro



$l_1 = 0.75 \times D$

Type N

Norme OPTI

D	$R_{+/-0.01}$	d_{h5}	l_1	L	Z	Non revêtu	Revêtu PSNM
0.3	0.15	3	0.25	39	2	210.220.30-00.3	210.220.30M-00.3
0.4	0.2	3	0.3	39	2	210.220.30-00.4	210.220.30M-00.4
0.5	0.25	3	0.37	39	2	210.220.30-00.5	210.220.30M-00.5
0.6	0.3	3	0.45	39	2	210.220.30-00.6	210.220.30M-00.6
0.8	0.4	3	0.6	39	2	210.220.30-00.8	210.220.30M-00.8
1	0.5	3	0.75	39	2	210.220.30-01	210.220.30M-01

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MICRO fraises

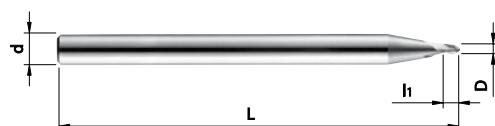
Micro fraises

Mikro Fräser

Micro end mills

Micro frese

2	1	0	2	2	1	3	0	M	210.221.30	210.221.30M
MD HM/SC MG KX10	MICRO fraises MIKRO Fräser MICRO end mills MICRO frese					$\lambda 30^\circ$ $\gamma \sim 10^\circ$		PSNM		



OPTI
micro



$l_1 = 1.5 \times D$

Type N

Norme OPTI

D	$R_{+/-0.01}$	d_{h5}	l_1	L	Z	Non revêtu	Revêtu PSNM
0.1	0.05	3	0.1	39	2	210.221.30-00.1	
0.15	0.075	3	0.2	39	2	210.221.30-00.15	
0.2	0.1	3	0.3	39	2	210.221.30-00.2	210.221.30M-00.2
0.25	0.125	3	0.35	39	2	210.221.30-00.25	210.221.30M-00.25
0.3	0.15	3	0.45	39	2	210.221.30-00.3	210.221.30M-00.3
0.4	0.2	3	0.6	39	2	210.221.30-00.4	210.221.30M-00.4
0.5	0.25	3	0.75	39	2	210.221.30-00.5	210.221.30M-00.5
0.6	0.3	3	0.9	39	2	210.221.30-00.6	210.221.30M-00.6
0.7	0.35	3	1.05	39	2	210.221.30-00.7	210.221.30M-00.7
0.8	0.4	3	1.2	39	2	210.221.30-00.8	210.221.30M-00.8
0.9	0.45	3	1.35	39	2	210.221.30-00.9	210.221.30M-00.9
1	0.5	3	1.5	39	2	210.221.30-01	210.221.30M-01
1.1	0.55	3	1.65	39	2	210.221.30-01.1	210.221.30M-01.1
1.2	0.6	3	1.8	39	2	210.221.30-01.2	210.221.30M-01.2
1.3	0.65	3	1.95	39	2	210.221.30-01.3	210.221.30M-01.3
1.4	0.7	3	2.1	39	2	210.221.30-01.4	210.221.30M-01.4
1.5	0.75	3	2.25	39	2	210.221.30-01.5	210.221.30M-01.5
1.6	0.8	3	2.4	39	2	210.221.30-01.6	210.221.30M-01.6
1.8	0.9	3	2.7	39	2	210.221.30-01.8	210.221.30M-01.8
2	1	3	3	39	2	210.221.30-02	210.221.30M-02

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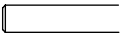
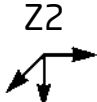
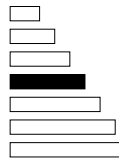
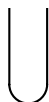
MICRO fraises

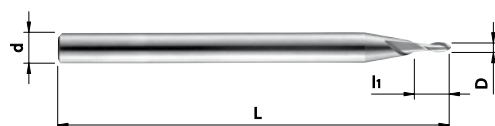
Micro fraises

Mikro Fräser

Micro end mills

Micro frese

2	1	0	2	2	5	3	0	M	210.225.30	210.225.30M
MD HM/SC MG KX10	MICRO fraises MIKRO Fräser MICRO end mills MICRO frese					$\lambda 30^\circ$ $\gamma \sim 10^\circ$		PSNM		



OPTI
micro



$l_1 = 3 \times D$

Type N

Norme OPTI

D	$R_{+/-0.01}$	d_{h5}	l_1	L	Z	Non revêtu	Revêtu PSNM
0.1	0.05	3	0.2	39	2	210.225.30-00.1	
0.15	0.075	3	0.3	39	2	210.225.30-00.15	
0.2	0.1	3	0.5	39	2	210.225.30-00.2	210.225.30M-00.2
0.25	0.125	3	0.5	39	2	210.225.30-00.25	210.225.30M-00.25
0.3	0.15	3	1	39	2	210.225.30-00.3	210.225.30M-00.3
0.35	0.175	3	1	39	2	210.225.30-00.35	210.225.30M-00.35
0.4	0.2	3	1	39	2	210.225.30-00.4	210.225.30M-00.4
0.5	0.25	3	1.5	39	2	210.225.30-00.5	210.225.30M-00.5
0.6	0.3	3	1.5	39	2	210.225.30-00.6	210.225.30M-00.6
0.7	0.35	3	2	39	2	210.225.30-00.7	210.225.30M-00.7
0.8	0.4	3	2	39	2	210.225.30-00.8	210.225.30M-00.8
0.9	0.45	3	2.5	39	2	210.225.30-00.9	210.225.30M-00.9
1	0.5	3	3	39	2	210.225.30-01	210.225.30M-01
1.1	0.55	3	3	39	2	210.225.30-01.1	210.225.30M-01.1
1.2	0.6	3	4	39	2	210.225.30-01.2	210.225.30M-01.2
1.4	0.7	3	4	39	2	210.225.30-01.4	210.225.30M-01.4
1.5	0.75	3	4	39	2	210.225.30-01.5	210.225.30M-01.5
1.6	0.8	3	4	39	2	210.225.30-01.6	210.225.30M-01.6
1.8	0.9	3	5	39	2	210.225.30-01.8	210.225.30M-01.8
2	1	3	5	39	2	210.225.30-02	210.225.30M-02
2.5	1.25	3	7	39	2	210.225.30-02.5	210.225.30M-02.5

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MICRO fraises

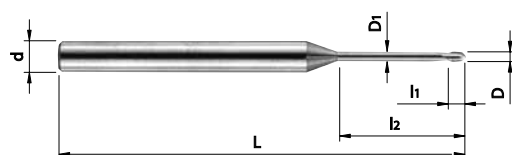
Micro fraises

Mikro Fräser

Micro end mills

Micro frese

2	1	0	2	2	8	3	0	M	210.228.30	210.228.30M
MD HM/SC MG KX10	MICRO fraises MIKRO Fräser MICRO end mills MICRO frese					$\lambda 30^\circ$ $\gamma \sim 10^\circ$		PSNM		



OPTI
micro



$L_1 = 1.5 \times D$

Type N

Norme OPTI

D	L_2	$R_{+/-0.01}$	L_1	$D_{1-0.02/-0.05}$	d_{h5}	L	Z	Non revêtu	Revêtu PSNM
0.4	2	0.2	0.6	0.4	3	39	2	210.228.30-0.4-02	210.228.30M-0.4-02
0.4	4	0.2	0.6	0.4	3	39	2	210.228.30-0.4-04	210.228.30M-0.4-04
0.5	4	0.25	0.75	0.5	3	39	2	210.228.30-0.5-04	210.228.30M-0.5-04
0.5	6	0.25	0.75	0.5	3	39	2	210.228.30-0.5-06	210.228.30M-0.5-06
0.6	4	0.3	0.9	0.6	3	39	2	210.228.30-0.6-04	210.228.30M-0.6-04
0.6	6	0.3	0.9	0.6	3	39	2	210.228.30-0.6-06	210.228.30M-0.6-06
0.8	4	0.4	1.2	0.8	3	39	2	210.228.30-0.8-04	210.228.30M-0.8-04
0.8	6	0.4	1.2	0.8	3	39	2	210.228.30-0.8-06	210.228.30M-0.8-06
0.8	9	0.4	1.2	0.8	3	39	2	210.228.30-0.8-09	210.228.30M-0.8-09
1	6	0.5	1.5	1	3	39	2	210.228.30-1-06	210.228.30M-1-06
1	9	0.5	1.5	1	3	39	2	210.228.30-1-09	210.228.30M-1-09
1	12	0.5	1.5	1	3	39	2	210.228.30-1-12	210.228.30M-1-12
1.5	6	0.75	2.25	1.5	3	39	2	210.228.30-1.5-06	210.228.30M-1.5-06
1.5	9	0.75	2.25	1.5	3	39	2	210.228.30-1.5-09	210.228.30M-1.5-09
1.5	12	0.75	2.25	1.5	3	39	2	210.228.30-1.5-12	210.228.30M-1.5-12
2	9	1	3	2	3	39	2	210.228.30-2-09	210.228.30M-2-09
2	12	1	3	2	3	39	2	210.228.30-2-12	210.228.30M-2-12

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