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MICRO-Line

NEW



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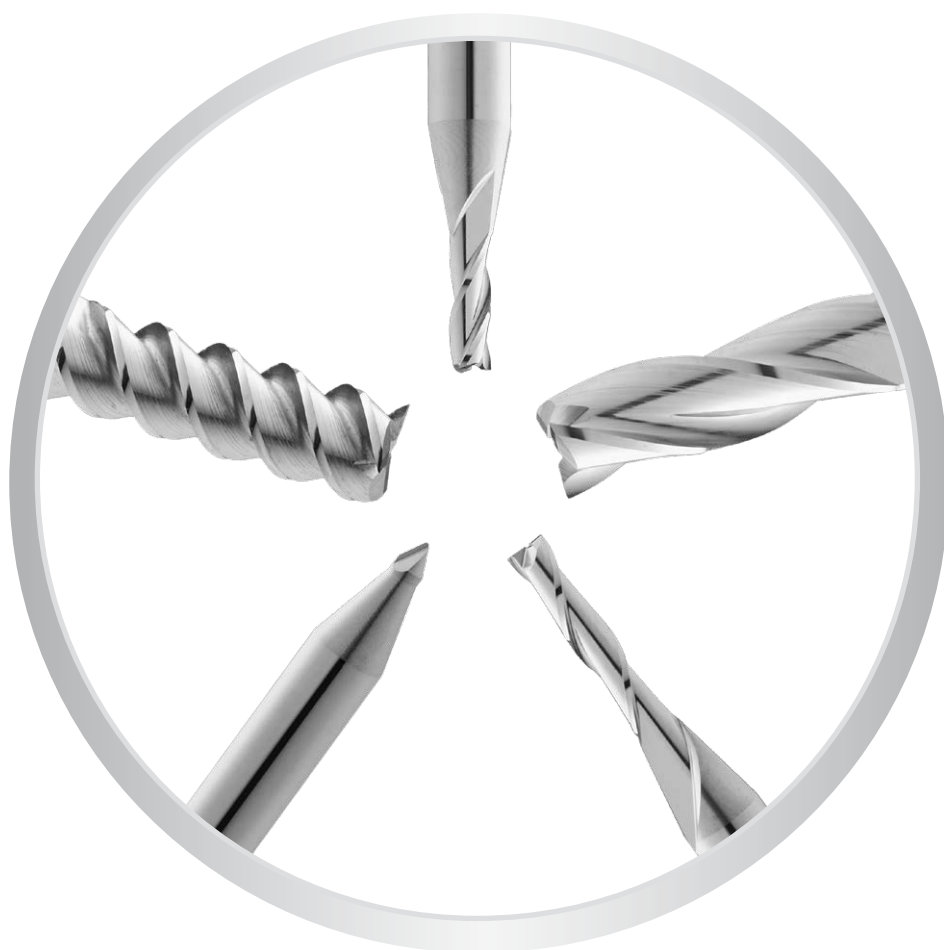


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MICRO-Line

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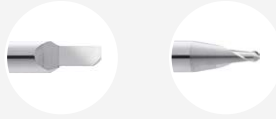
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> **8.02**

Micro-fraises
Micropräzisionsfräser
Micro end mills



> **8.03**

Micro-forets / Centreurs NC
Microbohrer / NC-Zentrierbohrer
Micro drills / NC centering drills

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

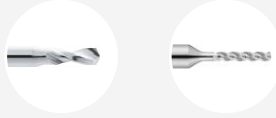
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Micro drills



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Engraving mills

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

> **8.26**

Fraises à graver
Gravierfräser
Engraving mills



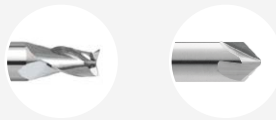
> **8.26**

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> **8.28**

Fraises en bout de finition
Schlicht Schaftfräser
Finishing end mills



> **8.29**

Micro-fraises

Micropräzisionsfräser

Micro end mills

Paramètres de coupe indicatifs

Empfohlene Schnittwerte

Standard machining data

		Z	L2	Spiral	Type	page	
		Z = 1	2 x D1	0°	3170-2	8.03	NEW
					3170R-2	8.03	NEW
		Z = 2	0.75 x D1	30°	3271-0.75	8.04	NEW
			1.5 x D1	30°	3271-1.5	8.04	
			3 x D1	30°	3271-3	8.05	
			5 x D1	30°	3271-5	8.05	NEW
			8 x D1	30°	3271-8	8.06	NEW
		Z = 3	1.3 x D1	30°	3371-1.3	8.06	
	2 x D1		30°	3371-2	8.07	NEW	
	3 x D1		30°	3371-3	8.07		
		Z = 2	0.75 x D1	30°	3278-0.75	8.08	NEW
			1.5 x D1	30°	3278-1.5	8.08	
3 x D1			30°	3278-3	8.09		

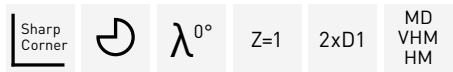
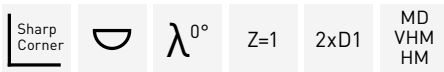
Matière Werkstoff Material	VC (m/min)	fz [mm/z]	
		Ø 0.2 - 1.2	Ø 1.3 - 2.9
Acier Stahl Steel < 700 N/mm²	30 - 90	0.002 - 0.010	0.005 - 0.018
Acier Stahl Steel > 700 N/mm²	25 - 60	0.001 - 0.007	0.002 - 0.012
Acier inoxydable Rostfreistahl Stainless steel	30 - 70	0.001 - 0.008	0.004 - 0.020
Titane Titan Titanium	25 - 40	0.001 - 0.008	0.003 - 0.010
Aluminium	80 - 250	0.002 - 0.010	0.005 - 0.020
Cuivre Kupfer Copper	60 - 120	0.001 - 0.080	0.004 - 0.020
Laiton Messing Brass	80 - 180	0.002 - 0.012	0.006 - 0.025
Or Gold Gold	80 - 160	0.002 - 0.012	0.006 - 0.025

Micro-fraises

Micropräzisionsfräser

Micro end mills

3170 / 3170R



D1 +0.005 / -0.010	L2	D2 h ₆	L1	Art. N°
0.20	0.4	3.00	39	3170-2-0.20
0.30	0.6	3.00	39	3170-2-0.30
0.40	0.8	3.00	39	3170-2-0.40
0.50	1.0	3.00	39	3170-2-0.50
0.60	1.2	3.00	39	3170-2-0.60
0.70	1.4	3.00	39	3170-2-0.70
0.80	1.6	3.00	39	3170-2-0.80
0.90	1.8	3.00	39	3170-2-0.90
1.00	2.0	3.00	39	3170-2-1.00
1.10	2.2	3.00	39	3170-2-1.10
1.20	2.4	3.00	39	3170-2-1.20
1.30	2.6	3.00	39	3170-2-1.30
1.40	2.8	3.00	39	3170-2-1.40
1.50	3.0	3.00	39	3170-2-1.50
1.60	3.2	3.00	39	3170-2-1.60
1.70	3.4	3.00	39	3170-2-1.70
1.80	3.6	3.00	39	3170-2-1.80
1.90	3.8	3.00	39	3170-2-1.90
2.00	4.0	3.00	39	3170-2-2.00
2.50	5.0	3.00	39	3170-2-2.50
3.00	6.0	4.00	40	3170-2-3.00

D1 +0.005 / -0.010	L2	D2 h ₆	L1	Art. N°
0.20	0.4	3.00	39	3170R-2-0.20
0.30	0.6	3.00	39	3170R-2-0.30
0.40	0.8	3.00	39	3170R-2-0.40
0.50	1.0	3.00	39	3170R-2-0.50
0.60	1.2	3.00	39	3170R-2-0.60
0.70	1.4	3.00	39	3170R-2-0.70
0.80	1.6	3.00	39	3170R-2-0.80
0.90	1.8	3.00	39	3170R-2-0.90
1.00	2.0	3.00	39	3170R-2-1.00
1.10	2.2	3.00	39	3170R-2-1.10
1.20	2.4	3.00	39	3170R-2-1.20
1.30	2.6	3.00	39	3170R-2-1.30
1.40	2.8	3.00	39	3170R-2-1.40
1.50	3.0	3.00	39	3170R-2-1.50
1.60	3.2	3.00	39	3170R-2-1.60
1.70	3.4	3.00	39	3170R-2-1.70
1.80	3.6	3.00	39	3170R-2-1.80
1.90	3.8	3.00	39	3170R-2-1.90
2.00	4.0	3.00	39	3170R-2-2.00
2.10	4.1	3.00	39	3170R-2-2.10
2.20	4.4	3.00	39	3170R-2-2.20
2.30	4.6	3.00	39	3170R-2-2.30
2.40	4.8	3.00	39	3170R-2-2.40
2.50	5.0	3.00	39	3170R-2-2.50
2.60	5.2	3.00	39	3170R-2-2.60
2.70	5.4	3.00	39	3170R-2-2.70
2.80	5.6	3.00	39	3170R-2-2.80
2.90	5.8	3.00	39	3170R-2-2.90
3.00	6.0	4.00	40	3170R-2-3.00

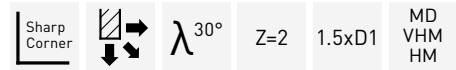
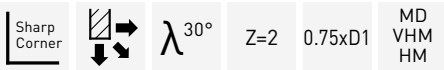
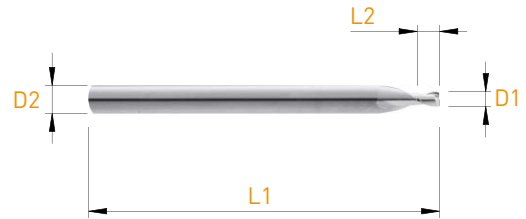
MICRO-Line

Micro-fraises

Micropräzisionsfräser

Micro end mills

3271-0.75 / 3271-1.5



D1 +0.005 / -0.010	L2	D2 h6	L1	Art. N°
0.20	0.15	3.00	39	3271-0.75-0.20
0.30	0.25	3.00	39	3271-0.75-0.30
0.40	0.3	3.00	39	3271-0.75-0.40
0.50	0.37	3.00	39	3271-0.75-0.50
0.60	0.45	3.00	39	3271-0.75-0.60
0.70	0.53	3.00	39	3271-0.75-0.70
0.80	0.6	3.00	39	3271-0.75-0.80
0.90	0.7	3.00	39	3271-0.75-0.90
1.00	0.75	3.00	39	3271-0.75-1.00
1.10	0.9	3.00	39	3271-0.75-1.10
1.20	0.9	3.00	39	3271-0.75-1.20
1.30	1.0	3.00	39	3271-0.75-1.30
1.40	1.1	3.00	39	3271-0.75-1.40
1.50	1.15	3.00	39	3271-0.75-1.50
1.60	1.2	3.00	39	3271-0.75-1.60
1.70	1.3	3.00	39	3271-0.75-1.70
1.80	1.4	3.00	39	3271-0.75-1.80
1.90	1.45	3.00	39	3271-0.75-1.90
2.00	1.5	3.00	39	3271-0.75-2.00

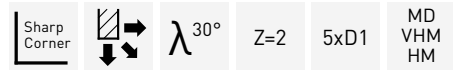
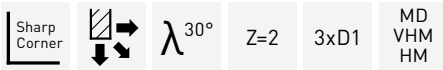
D1 +0.005 / -0.010	L2	D2 h6	L1	Art. N°
0.10	0.15	3.00	39	3271-1.5-0.10
0.15	0.2	3.00	39	3271-1.5-0.15
0.20	0.3	3.00	39	3271-1.5-0.20
0.25	0.35	3.00	39	3271-1.5-0.25
0.30	0.45	3.00	39	3271-1.5-0.30
0.40	0.6	3.00	39	3271-1.5-0.40
0.50	0.75	3.00	39	3271-1.5-0.50
0.60	0.9	3.00	39	3271-1.5-0.60
0.70	1.05	3.00	39	3271-1.5-0.70
0.80	1.2	3.00	39	3271-1.5-0.80
0.90	1.35	3.00	39	3271-1.5-0.90
1.00	1.5	3.00	39	3271-1.5-1.00
1.10	1.65	3.00	39	3271-1.5-1.10
1.20	1.8	3.00	39	3271-1.5-1.20
1.30	1.95	3.00	39	3271-1.5-1.30
1.40	2.1	3.00	39	3271-1.5-1.40
1.50	2.25	3.00	39	3271-1.5-1.50
1.60	2.4	3.00	39	3271-1.5-1.60
1.70	2.55	3.00	39	3271-1.5-1.70
1.80	2.7	3.00	39	3271-1.5-1.80
1.90	2.85	3.00	39	3271-1.5-1.90
2.00	3.0	3.00	39	3271-1.5-2.00

Micro-fraises

Micropräzisionsfräser

Micro end mills

3271-3 / 3271-5



D1 +0.005 / -0.010	L2	D2 h ₆	L1	Art. N°
0.10	0.25	3.00	39	3271-3-0.10
0.15	0.3	3.00	39	3271-3-0.15
0.20	0.5	3.00	39	3271-3-0.20
0.25	0.5	3.00	39	3271-3-0.25
0.30	1.0	3.00	39	3271-3-0.30
0.40	1.2	3.00	39	3271-3-0.40
0.50	1.5	3.00	39	3271-3-0.50
0.60	2.0	3.00	39	3271-3-0.60
0.70	2.0	3.00	39	3271-3-0.70
0.75	2.0	3.00	39	3271-3-0.75
0.80	2.5	3.00	39	3271-3-0.80
0.90	2.5	3.00	39	3271-3-0.90
1.00	3.0	3.00	39	3271-3-1.00
1.10	3.0	3.00	39	3271-3-1.10
1.20	4.0	3.00	39	3271-3-1.20
1.30	4.0	3.00	39	3271-3-1.30
1.40	4.0	3.00	39	3271-3-1.40
1.50	4.5	3.00	39	3271-3-1.50
1.60	4.5	3.00	39	3271-3-1.60
1.70	5.0	3.00	39	3271-3-1.70
1.80	6.0	3.00	39	3271-3-1.80
1.90	6.0	3.00	39	3271-3-1.90
2.00	6.0	3.00	39	3271-3-2.00
2.10	6.0	3.00	39	3271-3-2.10
2.20	6.5	3.00	39	3271-3-2.20
2.30	7.0	3.00	39	3271-3-2.30
2.40	7.0	3.00	39	3271-3-2.40
2.50	7.5	3.00	39	3271-3-2.50
2.60	7.5	3.00	39	3271-3-2.60
2.70	8.0	3.00	39	3271-3-2.70
2.80	8.0	3.00	39	3271-3-2.80
2.90	8.0	3.00	39	3271-3-2.90

D1 +0.005 / -0.010	L2	D2 h ₆	L1	Art. N°
0.30	1.5	3.00	39	3271-5-0.30
0.40	2.0	3.00	39	3271-5-0.40
0.50	2.5	3.00	39	3271-5-0.50
0.60	3.0	3.00	39	3271-5-0.60
0.70	3.5	3.00	39	3271-5-0.70
0.80	4.0	3.00	39	3271-5-0.80
0.90	4.5	3.00	39	3271-5-0.90
1.00	5.0	3.00	39	3271-5-1.00
1.10	5.5	3.00	39	3271-5-1.10
1.20	6.0	3.00	39	3271-5-1.20
1.50	7.5	3.00	39	3271-5-1.50
2.00	10.0	3.00	39	3271-5-2.00
2.50	12.5	3.00	39	3271-5-2.50

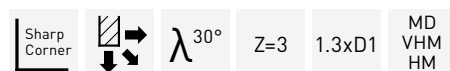
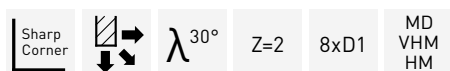
MICRO-Line

Micro-fraises

Micropräzisionsfräser

Micro end mills

3271-8 / 3371-1.3



D1 +0.005 / -0.010	L2	D2 h6	L1	Art. N°
0.40	3.2	3.00	39	3271-8-0.40
0.50	4.0	3.00	39	3271-8-0.50
0.60	5.0	3.00	39	3271-8-0.60
0.70	5.6	3.00	39	3271-8-0.70
0.80	6.0	3.00	39	3271-8-0.80
0.90	7.2	3.00	39	3271-8-0.90
1.00	8.0	3.00	39	3271-8-1.00
1.20	9.0	3.00	39	3271-8-1.20
1.50	12.0	4.00	50	3271-8-1.50
2.00	16.0	4.00	50	3271-8-2.00
2.50	20.0	4.00	50	3271-8-2.50

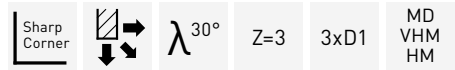
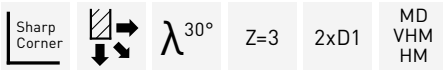
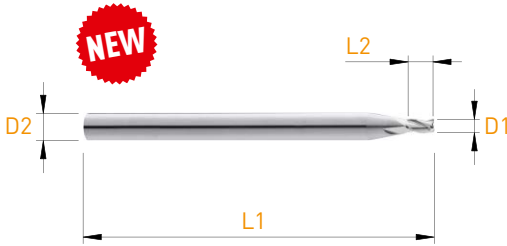
D1 +0.005 / -0.010	L2	D2 h6	L1	Art. N°
0.30	0.4	3.00	39	3371-1.3-0.30
0.40	0.5	3.00	39	3371-1.3-0.40
0.45	0.6	3.00	39	3371-1.3-0.45
0.50	0.7	3.00	39	3371-1.3-0.50
0.60	0.8	3.00	39	3371-1.3-0.60
0.70	0.9	3.00	39	3371-1.3-0.70
0.80	1.0	3.00	39	3371-1.3-0.80
0.90	1.3	3.00	39	3371-1.3-0.90
1.00	1.3	3.00	39	3371-1.3-1.00
1.10	1.5	3.00	39	3371-1.3-1.10
1.20	1.6	3.00	39	3371-1.3-1.20
1.30	1.8	3.00	39	3371-1.3-1.30
1.40	1.8	3.00	39	3371-1.3-1.40
1.50	2.0	3.00	39	3371-1.3-1.50
1.60	2.0	3.00	39	3371-1.3-1.60
1.70	2.0	3.00	39	3371-1.3-1.70
1.80	2.4	3.00	39	3371-1.3-1.80
1.90	2.4	3.00	39	3371-1.3-1.90
2.00	2.6	3.00	39	3371-1.3-2.00
2.20	3.0	3.00	39	3371-1.3-2.20
2.50	3.3	3.00	39	3371-1.3-2.50
2.80	3.5	3.00	39	3371-1.3-2.80
2.90	3.5	3.00	39	3371-1.3-2.90

Micro-fraises

Micropräzisionsfräser

Micro end mills

3371-2 / 3371-3



D1 +0.005 / -0.010	L2	D2 h ₆	L1	Art. N°
0.30	0.6	3.00	39	3371-2-0.30
0.40	0.8	3.00	39	3371-2-0.40
0.50	1.0	3.00	39	3371-2-0.50
0.60	1.2	3.00	39	3371-2-0.60
0.70	1.4	3.00	39	3371-2-0.70
0.75	1.5	3.00	39	3371-2-0.75
0.80	1.6	3.00	39	3371-2-0.80
0.90	1.8	3.00	39	3371-2-0.90
1.00	2.0	3.00	39	3371-2-1.00
1.10	2.2	3.00	39	3371-2-1.10
1.20	2.4	3.00	39	3371-2-1.20
1.30	2.6	3.00	39	3371-2-1.30
1.40	2.8	3.00	39	3371-2-1.40
1.50	3.0	3.00	39	3371-2-1.50
1.60	3.2	3.00	39	3371-2-1.60
1.70	3.4	3.00	39	3371-2-1.70
1.80	3.6	3.00	39	3371-2-1.80
1.90	3.8	3.00	39	3371-2-1.90
2.00	4.0	3.00	39	3371-2-2.00
2.10	4.2	3.00	39	3371-2-2.10
2.20	4.4	3.00	39	3371-2-2.20
2.30	4.6	3.00	39	3371-2-2.30
2.40	4.8	3.00	39	3371-2-2.40
2.50	5.0	3.00	39	3371-2-2.50
2.60	5.2	3.00	39	3371-2-2.60
2.70	5.4	3.00	39	3371-2-2.70
2.80	5.6	3.00	39	3371-2-2.80
2.90	5.8	3.00	39	3371-2-2.90

D1 +0.005 / -0.010	L2	D2 h ₆	L1	Art. N°
0.30	0.9	3.00	39	3371-3-0.30
0.40	1.2	3.00	39	3371-3-0.40
0.50	1.5	3.00	39	3371-3-0.50
0.60	2.0	3.00	39	3371-3-0.60
0.70	2.0	3.00	39	3371-3-0.70
0.75	2.0	3.00	39	3371-3-0.75
0.80	2.5	3.00	39	3371-3-0.80
0.90	2.5	3.00	39	3371-3-0.90
1.00	3.0	3.00	39	3371-3-1.00
1.10	3.3	3.00	39	3371-3-1.10
1.20	4.0	3.00	39	3371-3-1.20
1.30	4.0	3.00	39	3371-3-1.30
1.40	4.0	3.00	39	3371-3-1.40
1.50	4.5	3.00	39	3371-3-1.50
1.60	4.5	3.00	39	3371-3-1.60
1.70	5.0	3.00	39	3371-3-1.70
1.80	6.0	3.00	39	3371-3-1.80
1.90	6.0	3.00	39	3371-3-1.90
2.00	6.0	3.00	39	3371-3-2.00
2.10	6.0	3.00	39	3371-3-2.10
2.20	6.5	3.00	39	3371-3-2.20
2.30	7.0	3.00	39	3371-3-2.30
2.40	7.0	3.00	39	3371-3-2.40
2.50	7.5	3.00	39	3371-3-2.50
2.60	7.5	3.00	39	3371-3-2.60
2.70	8.0	3.00	39	3371-3-2.70
2.80	8.0	3.00	39	3371-3-2.80
2.90	8.5	3.00	39	3371-3-2.90

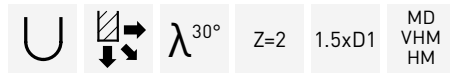
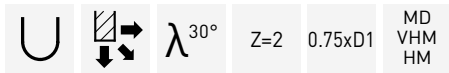
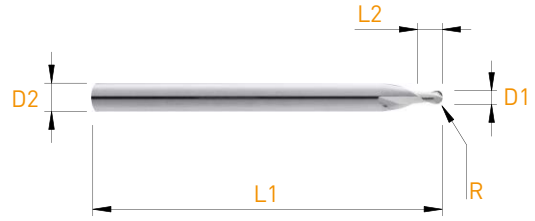
MICRO-Line

Micro-fraises

Micropräzisionsfräser

Micro end mills

3278-0.75 / 3278-1.5



D1 +0.005 / -0.010	R	L2	D2 h6	L1	Art. N°
0.20	0.10	0.15	3.00	39	3278-0.75-0.20
0.30	0.15	0.20	3.00	39	3278-0.75-0.30
0.40	0.20	0.30	3.00	39	3278-0.75-0.40
0.50	0.25	0.37	3.00	39	3278-0.75-0.50
0.60	0.30	0.45	3.00	39	3278-0.75-0.60
0.80	0.40	0.60	3.00	39	3278-0.75-0.80
1.00	0.50	0.75	3.00	39	3278-0.75-1.00

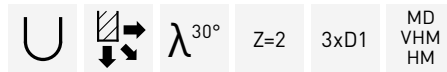
D1 +0.005 / -0.010	R	L2	D2 h6	L1	Art. N°
0.20	0.10	0.3	3.00	39	3278-1.5-0.20
0.25	0.125	0.35	3.00	39	3278-1.5-0.25
0.30	0.15	0.45	3.00	39	3278-1.5-0.30
0.40	0.20	0.6	3.00	39	3278-1.5-0.40
0.50	0.25	0.75	3.00	39	3278-1.5-0.50
0.60	0.30	0.9	3.00	39	3278-1.5-0.60
0.70	0.35	1.05	3.00	39	3278-1.5-0.70
0.80	0.40	1.2	3.00	39	3278-1.5-0.80
0.90	0.45	1.35	3.00	39	3278-1.5-0.90
1.00	0.50	1.5	3.00	39	3278-1.5-1.00
1.10	0.55	1.65	3.00	39	3278-1.5-1.10
1.20	0.60	1.8	3.00	39	3278-1.5-1.20
1.30	0.65	1.95	3.00	39	3278-1.5-1.30
1.40	0.70	2.1	3.00	39	3278-1.5-1.40
1.50	0.75	2.25	3.00	39	3278-1.5-1.50
1.60	0.80	2.4	3.00	39	3278-1.5-1.60
1.80	0.90	2.7	3.00	39	3278-1.5-1.80
2.00	1.00	3.0	3.00	39	3278-1.5-2.00

Micro-fraises

Micropräzisionsfräser

Micro end mills

3278-3



D1 +0.005 / -0.010	R	L2	D2 h6	L1	Art. N°
0.20	0.10	0.6	3.00	39	3278-3-0.20
0.30	0.15	1.0	3.00	39	3278-3-0.30
0.40	0.20	1.0	3.00	39	3278-3-0.40
0.50	0.25	1.5	3.00	39	3278-3-0.50
0.60	0.30	1.5	3.00	39	3278-3-0.60
0.70	0.35	2.0	3.00	39	3278-3-0.70
0.80	0.40	2.0	3.00	39	3278-3-0.80
0.90	0.45	2.5	3.00	39	3278-3-0.90
1.00	0.50	3.0	3.00	39	3278-3-1.00
1.20	0.60	4.0	3.00	39	3278-3-1.20
1.40	0.70	4.0	3.00	39	3278-3-1.40
1.50	0.75	4.0	3.00	39	3278-3-1.50
1.60	0.80	4.0	3.00	39	3278-3-1.60
1.80	0.90	5.5	3.00	39	3278-3-1.80
2.00	1.00	6.0	3.00	39	3278-3-2.00
2.10	1.05	6.0	3.00	39	3278-3-2.10
2.20	1.10	6.0	3.00	39	3278-3-2.20
2.50	1.25	7.5	3.00	39	3278-3-2.50
2.80	1.40	8.4	3.00	39	3278-3-2.80

Micro-forets / Centreurs NC

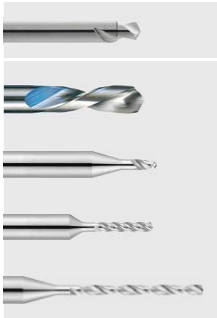
Microbohrer / NC-Zentrierbohrer

Micro drills / NC centering drills

Paramètres de coupe indicatifs

Empfohlene Schnittwerte

Standard machining data

	Spiral	L2	Type	page
	25°	-	1680-90 / 2680-90	8.11
	25°	-	1680-120 / 2680-120	8.12
			1010 / 2010	8.13
	35°	-	2011	8.14
	24°	-	2012	8.14
	35°	-	2013	8.15
	30°	-	2014	8.15
	30°	2 x D1	2020	8.16
	35°	6 x D1	2023	8.18
	25°	12 x D1	2026	8.21
	35°	5 x D1	2030 (Z=3)	8.23
				

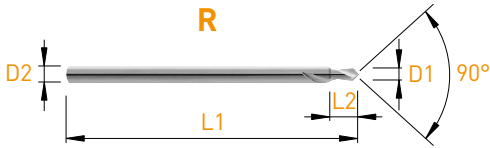
Matière Werkstoff Material	VC (m/min)	fz [mm/z]			
		Ø 0.4 - 0.6	Ø 0.6 - 1.0	Ø 1.0 - 3.0	Ø 3.0 - 6.0
Acier Stahl Steel < 700 N/mm ²	60 - 100	0.004 - 0.008	0.006 - 0.015	0.010 - 0.040	0.040 - 0.100
Acier Stahl Steel > 700 N/mm ²	30 - 60	0.003 - 0.005	0.005 - 0.012	0.010 - 0.040	0.040 - 0.080
Acier inoxydable Rostfreistahl Stainless steel	30 - 60	0.003 - 0.006	0.005 - 0.012	0.010 - 0.040	0.040 - 0.080
Titane Titan Titanium	25 - 50	0.002 - 0.005	0.004 - 0.010	0.008 - 0.030	0.030 - 0.070
Aluminium	60 - 150	0.004 - 0.010	0.006 - 0.030	0.020 - 0.070	0.050 - 0.150
Cuivre Kupfer Copper	50 - 80	0.004 - 0.012	0.007 - 0.020	0.050 - 0.060	0.050 - 0.120
Laiton Messing Brass	60 - 100	0.005 - 0.015	0.008 - 0.030	0.020 - 0.070	0.060 - 0.150
Or Gold Gold	50 - 100	0.004 - 0.010	0.006 - 0.030	0.020 - 0.070	0.060 - 0.150

Centreurs NC

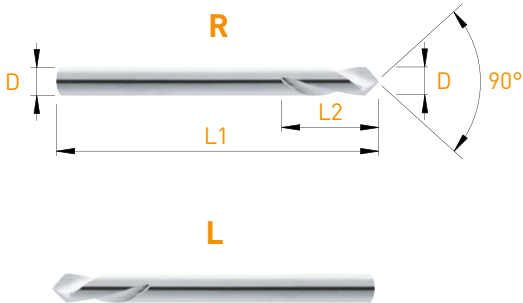
NC-Zentrierbohrer

NC centering drills

1680-90° / 2680-90°



MD VHM HM				R
D1 h ₆	L2	D2 h ₆	L1	Art. N°
0.50	1.5	2.00	39	2680-0.5-90
1.00	3.0	2.00	39	2680-1.0-90
1.50	4.0	2.00	39	2680-1.5-90



MD VHM HM			L	R
D h ₆	L2	L1	Art. N°	Art. N°
2.0	8	38	1680-2-90	2680-2-90
2.5	8	38	1680-2.5-90	2680-2.5-90
3.0	10	38	1680-3-90	2680-3-90
4.0	12	50	1680-4-90	2680-4-90
5.0	15	50	1680-5-90	2680-5-90
6.0	16	57	1680-6-90	2680-6-90
8.0	20	63	1680-8-90	2680-8-90
10.0	22	72	1680-10-90	2680-10-90
12.0	24	73	1680-12-90	2680-12-90
16.0	26	82	1680-16-90	2680-16-90
20.0	30	92	-	2680-20-90

HSS			R
D h ₆	L2	L1	Art. N°
3.0	10	38	2680-3-90-HSS
4.0	12	50	2680-4-90-HSS
5.0	15	50	2680-5-90-HSS
6.0	16	57	2680-6-90-HSS
8.0	20	63	2680-8-90-HSS
10.0	22	72	2680-10-90-HSS
12.0	24	73	2680-12-90-HSS

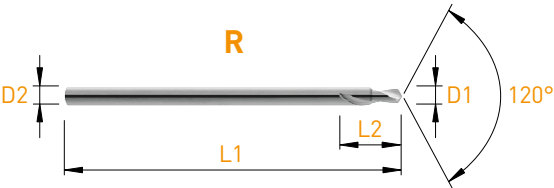
MICRO-Line

Centreurs NC

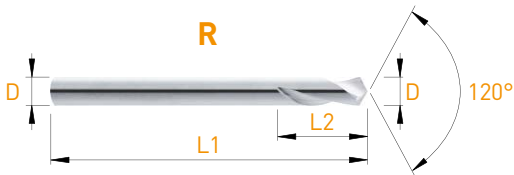
NC-Zentrierbohrer

NC centering drills

1680-120° / 2680-120°



MD VHM HM				R
D1 h6	L2	D2 h6	L1	Art. N°
0.50	1.5	2.00	39	2680-0.5-120
1.00	3.0	2.00	39	2680-1.0-120
1.50	4.0	2.00	39	2680-1.5-120



MD VHM HM			L	R
D h6	L2	L1	Art. N°	Art. N°
2.0	8	38	1680-2-120	2680-2-120
2.5	8	38	1680-2.5-120	2680-2.5-120
3.0	10	38	1680-3-120	2680-3-120
4.0	12	50	1680-4-120	2680-4-120
5.0	15	50	1680-5-120	2680-5-120
6.0	16	57	1680-6-120	2680-6-120
8.0	20	63	1680-8-120	2680-8-120
10.0	22	72	1680-10-120	2680-10-120
12.0	24	73	1680-12-120	2680-12-120
16.0	26	82	-	2680-16-120
20.0	30	92	-	2680-20-120

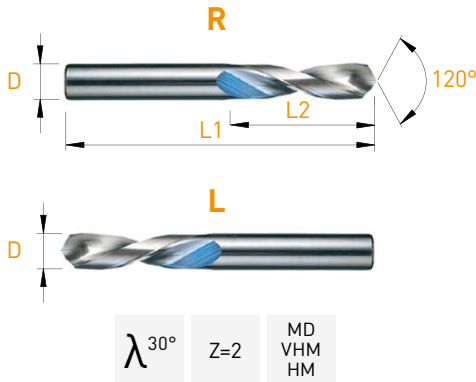


Forets cylindriques

Zylindrische Bohrer

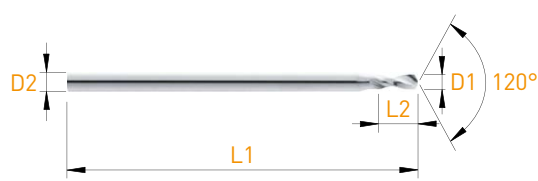
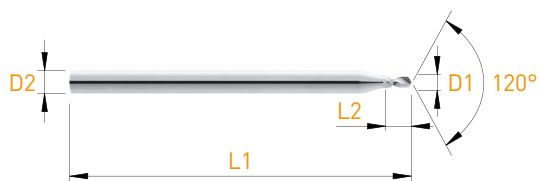
Cylindrical drills

1010 / 2010



D h6	L1	L2	L	R
			Art. N°	Art. N°
0.50	30	5	1010-0.50	2010-0.50
0.55	30	5	1010-0.55	2010-0.55
0.60	30	5	1010-0.60	2010-0.60
0.65	30	6	1010-0.65	2010-0.65
0.70	30	6	1010-0.70	2010-0.70
0.75	30	8	1010-0.75	2010-0.75
0.80	30	8	1010-0.80	2010-0.80
0.85	30	9	1010-0.85	2010-0.85
0.90	30	9	1010-0.90	2010-0.90
0.95	30	10	1010-0.95	2010-0.95
1.00	30	10	1010-1.00	2010-1.00
1.05	30	10	1010-1.05	2010-1.05
1.10	30	10	1010-1.10	2010-1.10
1.15	30	12	1010-1.15	2010-1.15
1.20	30	12	1010-1.20	2010-1.20
1.25	30	12	1010-1.25	2010-1.25
1.30	30	12	1010-1.30	2010-1.30
1.35	30	12	1010-1.35	2010-1.35
1.40	30	12	1010-1.40	2010-1.40
1.45	30	12	1010-1.45	2010-1.45
1.50	30	12	1010-1.50	2010-1.50
1.55	40	16	1010-1.55	2010-1.55
1.60	40	16	1010-1.60	2010-1.60
1.65	40	16	1010-1.65	2010-1.65
1.70	40	16	1010-1.70	2010-1.70
1.75	40	16	1010-1.75	2010-1.75
1.80	40	16	1010-1.80	2010-1.80
1.85	40	16	1010-1.85	2010-1.85
1.90	40	16	1010-1.90	2010-1.90
1.95	40	16	1010-1.95	2010-1.95
2.00	40	16	1010-2.00	2010-2.00
2.05	40	18	1010-2.05	2010-2.05
2.10	40	18	1010-2.10	2010-2.10

D h6	L1	L2	L	R
			Art. N°	Art. N°
2.15	40	18	1010-2.15	2010-2.15
2.20	40	18	1010-2.20	2010-2.20
2.25	40	18	1010-2.25	2010-2.25
2.30	40	18	1010-2.30	2010-2.30
2.35	40	18	1010-2.35	2010-2.35
2.40	40	18	1010-2.40	2010-2.40
2.45	40	18	1010-2.45	2010-2.45
2.50	40	18	1010-2.50	2010-2.50
2.55	45	18	1010-2.55	2010-2.55
2.60	45	18	1010-2.60	2010-2.60
2.65	45	18	1010-2.65	2010-2.65
2.70	45	18	1010-2.70	2010-2.70
2.75	45	18	1010-2.75	2010-2.75
2.80	45	18	1010-2.80	2010-2.80
2.85	45	18	1010-2.85	2010-2.85
2.90	45	18	1010-2.90	2010-2.90
2.95	45	18	1010-2.95	2010-2.95
3.00	45	18	1010-3.00	2010-3.00
3.10	45	20	1010-3.10	2010-3.10
3.20	50	20	1010-3.20	2010-3.20
3.30	50	20	1010-3.30	2010-3.30
3.40	50	20	1010-3.40	2010-3.40
3.50	50	20	1010-3.50	2010-3.50
3.60	50	20	1010-3.60	2010-3.60
3.70	50	20	1010-3.70	2010-3.70
3.80	50	20	1010-3.80	2010-3.80
3.90	50	20	1010-3.90	2010-3.90
4.00	50	20	1010-4.00	2010-4.00
4.10	50	25	1010-4.10	2010-4.10
4.20	50	25	1010-4.20	2010-4.20
4.30	50	25	1010-4.30	2010-4.30
4.40	50	25	1010-4.40	2010-4.40
4.50	50	25	1010-4.50	2010-4.50
4.60	50	25	1010-4.60	2010-4.60
4.70	50	25	1010-4.70	2010-4.70
4.80	50	25	1010-4.80	2010-4.80
4.90	50	25	1010-4.90	2010-4.90
5.00	50	25	1010-5.00	2010-5.00
5.10	50	25	1010-5.10	2010-5.10
5.20	50	25	1010-5.20	2010-5.20
5.30	50	25	1010-5.30	2010-5.30
5.40	50	25	1010-5.40	2010-5.40
5.50	50	25	1010-5.50	2010-5.50
5.60	50	25	1010-5.60	2010-5.60
5.70	50	25	1010-5.70	2010-5.70
5.80	50	25	1010-5.80	2010-5.80
5.90	50	25	1010-5.90	2010-5.90
6.00	50	25	1010-6.00	2010-6.00



λ^{35°

Z=2

MD
VHM
HM

D1 h6	L2	D2 h6	L1	Art. N°
0.80	2.0	2.00	30	2011-0.80
0.90	2.0	2.00	30	2011-0.90
1.00	2.0	2.00	30	2011-1.00
1.10	2.0	2.00	30	2011-1.10
1.20	2.5	2.00	30	2011-1.20
1.30	2.5	2.00	30	2011-1.30
1.40	2.5	2.00	30	2011-1.40
1.50	4.0	2.00	30	2011-1.50
2.00	5.0	2.00	30	2011-2.00

λ^{24°

Z=2

MD
VHM
HM

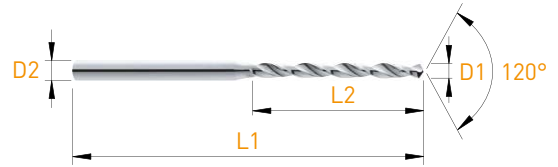
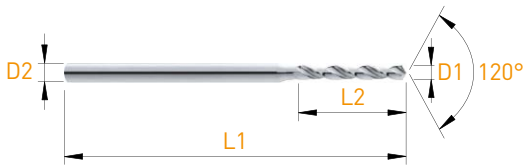
D1 h6	L2	D2 h6	L1	Art. N°
0.50	1.7	1.50	30	2012-0.50
0.55	1.9	1.50	30	2012-0.55
0.60	1.9	1.50	30	2012-0.60
0.65	1.9	1.50	30	2012-0.65
0.70	2.4	1.50	30	2012-0.70
0.75	2.4	1.50	30	2012-0.75
0.80	2.6	1.50	30	2012-0.80
0.85	2.6	1.50	30	2012-0.85
0.90	3.0	1.50	30	2012-0.90
0.95	3.0	1.50	30	2012-0.95
1.00	3.4	1.50	30	2012-1.00
1.10	3.8	1.50	30	2012-1.10
1.20	4.2	1.50	30	2012-1.20
1.30	4.2	1.50	30	2012-1.30
1.40	4.7	1.50	30	2012-1.40
1.50	4.7	2.00	38	2012-1.50
1.60	5.4	2.00	38	2012-1.60
1.70	5.4	2.00	38	2012-1.70
1.80	6.5	2.00	38	2012-1.80
1.90	6.5	2.00	38	2012-1.90
2.00	6.5	2.50	38	2012-2.00
2.10	6.5	2.50	38	2012-2.10
2.20	6.5	2.50	38	2012-2.20
2.30	6.5	2.50	38	2012-2.30
2.40	6.5	2.50	38	2012-2.40

Micro-forets

Microbohrer

Micro drills

2013 / 2014



λ 35°

Z=2

MD
VHM
HM

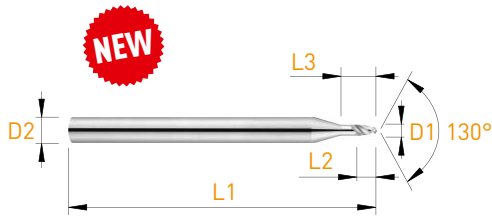
D1 h6	L2	D2 h6	L1	Art. N°
0.40	3.6	1.00	25	2013-0.40
0.45	3.6	1.00	25	2013-0.45
0.50	4.0	1.00	25	2013-0.50
0.55	4.5	1.00	25	2013-0.55
0.60	4.5	1.00	25	2013-0.60
0.65	5.0	1.00	25	2013-0.65
0.70	5.6	1.00	25	2013-0.70
0.75	5.6	1.00	25	2013-0.75
0.80	6.3	1.50	30	2013-0.80
0.85	6.3	1.50	30	2013-0.85
0.90	7.1	1.50	30	2013-0.90
0.95	7.1	1.50	30	2013-0.95
1.00	8.0	1.50	30	2013-1.00
1.05	8.0	1.50	30	2013-1.05
1.10	9.0	1.50	30	2013-1.10
1.15	9.0	1.50	30	2013-1.15
1.20	10.0	1.50	30	2013-1.20
1.25	10.0	1.50	30	2013-1.25
1.30	10.0	1.50	30	2013-1.30
1.35	11.2	1.50	30	2013-1.35
1.40	11.2	1.50	30	2013-1.40
1.45	11.2	1.50	30	2013-1.45
1.50	12.0	2.00	38	2013-1.50
1.60	12.0	2.00	38	2013-1.60
1.70	12.0	2.00	38	2013-1.70
1.80	12.0	2.00	38	2013-1.80
1.90	12.0	2.00	38	2013-1.90

λ 30°

Z=2

MD
VHM
HM

D1 h6	L2	D2 h6	L1	Art. N°
0.50	6.0	1.50	30	2014-0.50
0.55	6.5	1.50	30	2014-0.55
0.60	6.5	1.50	30	2014-0.60
0.65	7.5	1.50	30	2014-0.65
0.70	8.5	1.50	30	2014-0.70
0.75	8.5	1.50	30	2014-0.75
0.80	9.5	1.50	30	2014-0.80
0.85	9.5	1.50	30	2014-0.85
0.90	10.5	1.50	30	2014-0.90
0.95	10.5	1.50	30	2014-0.95
1.00	12.0	1.50	38	2014-1.00
1.05	12.0	1.50	38	2014-1.05
1.10	13.5	1.50	38	2014-1.10
1.15	13.5	1.50	38	2014-1.15
1.20	15.0	1.50	38	2014-1.20
1.25	15.0	1.50	38	2014-1.25
1.30	17.0	1.50	38	2014-1.30
1.35	17.0	1.50	38	2014-1.35
1.40	17.0	1.50	38	2014-1.40
1.45	17.0	1.50	38	2014-1.45
1.50	18.0	2.00	38	2014-1.50
1.55	18.0	2.00	38	2014-1.55
1.60	18.0	2.00	38	2014-1.60
1.65	18.0	2.00	38	2014-1.65
1.70	18.0	2.00	38	2014-1.70
1.75	18.0	2.00	38	2014-1.75
1.80	18.0	2.00	38	2014-1.80
1.85	18.0	2.00	38	2014-1.85
1.90	18.0	2.00	38	2014-1.90
1.95	18.0	2.00	38	2014-1.95



λ^{30°

Z=2

2xD1

MD
VHM
HM

D1 0 / +0.005	L2	L3	L1	D2 h6	Art. N°
0.10	0.35	0.55	38	3.00	2020-0.10
0.11	0.35	0.55	38	3.00	2020-0.11
0.12	0.35	0.55	38	3.00	2020-0.12
0.13	0.40	0.60	38	3.00	2020-0.13
0.14	0.40	0.60	38	3.00	2020-0.14
0.15	0.40	0.60	38	3.00	2020-0.15
0.16	0.40	0.60	38	3.00	2020-0.16
0.17	0.50	0.70	38	3.00	2020-0.17
0.18	0.50	0.70	38	3.00	2020-0.18
0.19	0.50	0.70	38	3.00	2020-0.19
0.20	0.55	0.75	38	3.00	2020-0.20
0.21	0.55	0.75	38	3.00	2020-0.21
0.22	0.60	0.80	38	3.00	2020-0.22
0.23	0.60	0.80	38	3.00	2020-0.23
0.24	0.60	0.80	38	3.00	2020-0.24
0.25	0.70	0.90	38	3.00	2020-0.25
0.26	0.70	0.90	38	3.00	2020-0.26
0.27	0.70	0.90	38	3.00	2020-0.27
0.28	0.80	1.00	38	3.00	2020-0.28
0.29	0.80	1.00	38	3.00	2020-0.29
0.30	0.90	1.20	38	3.00	2020-0.30
0.31	0.90	1.20	38	3.00	2020-0.31
0.32	0.90	1.20	38	3.00	2020-0.32
0.33	0.90	1.20	38	3.00	2020-0.33
0.34	0.90	1.35	38	3.00	2020-0.34
0.35	0.90	1.35	38	3.00	2020-0.35
0.36	0.95	1.35	38	3.00	2020-0.36
0.37	0.95	1.35	38	3.00	2020-0.37
0.38	0.95	1.50	38	3.00	2020-0.38
0.39	0.95	1.50	38	3.00	2020-0.39
0.40	0.80	1.60	38	3.00	2020-0.40
0.41	0.82	1.60	38	3.00	2020-0.41
0.42	0.84	1.60	38	3.00	2020-0.42
0.43	0.86	1.60	38	3.00	2020-0.43
0.44	0.88	1.60	38	3.00	2020-0.44
0.45	0.90	1.60	38	3.00	2020-0.45
0.46	0.92	1.70	38	3.00	2020-0.46
0.47	0.94	1.70	38	3.00	2020-0.47
0.48	0.96	1.70	38	3.00	2020-0.48

D1 0 / +0.005	L2	L3	L1	D2 h6	Art. N°
0.49	0.98	1.70	38	3.00	2020-0.49
0.50	1.00	1.70	38	3.00	2020-0.50
0.51	1.02	1.80	38	3.00	2020-0.51
0.52	1.04	1.80	38	3.00	2020-0.52
0.53	1.06	1.80	38	3.00	2020-0.53
0.54	1.08	1.80	38	3.00	2020-0.54
0.55	1.10	1.80	38	3.00	2020-0.55
0.56	1.12	1.90	38	3.00	2020-0.56
0.57	1.14	1.90	38	3.00	2020-0.57
0.58	1.16	1.90	38	3.00	2020-0.58
0.59	1.18	1.90	38	3.00	2020-0.59
0.60	1.20	1.90	38	3.00	2020-0.60
0.61	1.22	2.00	38	3.00	2020-0.61
0.62	1.24	2.00	38	3.00	2020-0.62
0.63	1.26	2.00	38	3.00	2020-0.63
0.64	1.28	2.00	38	3.00	2020-0.64
0.65	1.30	2.00	38	3.00	2020-0.65
0.66	1.32	2.10	38	3.00	2020-0.66
0.67	1.34	2.10	38	3.00	2020-0.67
0.68	1.36	2.10	38	3.00	2020-0.68
0.69	1.38	2.10	38	3.00	2020-0.69
0.70	1.40	2.10	38	3.00	2020-0.70
0.71	1.42	2.20	38	3.00	2020-0.71
0.72	1.44	2.20	38	3.00	2020-0.72
0.73	1.46	2.20	38	3.00	2020-0.73
0.74	1.48	2.20	38	3.00	2020-0.74
0.75	1.50	2.20	38	3.00	2020-0.75
0.76	1.52	2.30	38	3.00	2020-0.76
0.77	1.54	2.30	38	3.00	2020-0.77
0.78	1.56	2.30	38	3.00	2020-0.78
0.79	1.58	2.30	38	3.00	2020-0.79
0.80	1.60	2.30	38	3.00	2020-0.80
0.81	1.62	2.40	38	3.00	2020-0.81
0.82	1.64	2.40	38	3.00	2020-0.82
0.83	1.66	2.40	38	3.00	2020-0.83
0.84	1.68	2.40	38	3.00	2020-0.84
0.85	1.70	2.40	38	3.00	2020-0.85
0.86	1.72	2.50	38	3.00	2020-0.86
0.87	1.74	2.50	38	3.00	2020-0.87
0.88	1.76	2.50	38	3.00	2020-0.88
0.89	1.78	2.50	38	3.00	2020-0.89
0.90	1.80	2.50	38	3.00	2020-0.90
0.91	1.82	2.60	38	3.00	2020-0.91
0.92	1.84	2.60	38	3.00	2020-0.92
0.93	1.86	2.60	38	3.00	2020-0.93
0.94	1.88	2.60	38	3.00	2020-0.94
0.95	1.90	2.60	38	3.00	2020-0.95
0.96	1.92	2.70	38	3.00	2020-0.96
0.97	1.94	2.70	38	3.00	2020-0.97
0.98	1.96	2.70	38	3.00	2020-0.98
0.99	1.98	2.70	38	3.00	2020-0.99

Micro-forets

Microbohrer

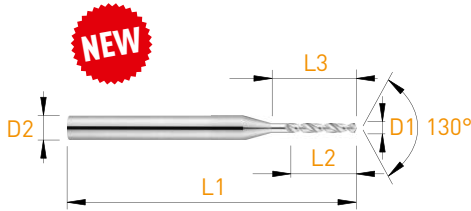
Micro drills

Ø 1.00 - Ø 2.00 mm

2020

D1 0/+0.005	L2	L3	L1	D2 h6	Art. N°
1.00	2.00	2.70	38	3.00	2020-1.00
1.01	2.02	3.50	38	3.00	2020-1.01
1.02	2.04	3.50	38	3.00	2020-1.02
1.03	2.06	3.50	38	3.00	2020-1.03
1.04	2.08	3.50	38	3.00	2020-1.04
1.05	2.10	3.50	38	3.00	2020-1.05
1.06	2.12	3.60	38	3.00	2020-1.06
1.07	2.14	3.60	38	3.00	2020-1.07
1.08	2.16	3.60	38	3.00	2020-1.08
1.09	2.18	3.60	38	3.00	2020-1.09
1.10	2.20	3.60	38	3.00	2020-1.10
1.11	2.22	3.70	38	3.00	2020-1.11
1.12	2.24	3.70	38	3.00	2020-1.12
1.13	2.26	3.70	38	3.00	2020-1.13
1.14	2.28	3.70	38	3.00	2020-1.14
1.15	2.30	3.70	38	3.00	2020-1.15
1.16	2.32	3.80	38	3.00	2020-1.16
1.17	2.34	3.80	38	3.00	2020-1.17
1.18	2.36	3.80	38	3.00	2020-1.18
1.19	2.38	3.80	38	3.00	2020-1.19
1.20	2.40	3.80	38	3.00	2020-1.20
1.21	2.42	4.20	38	3.00	2020-1.21
1.22	2.44	4.20	38	3.00	2020-1.22
1.23	2.46	4.20	38	3.00	2020-1.23
1.24	2.48	4.20	38	3.00	2020-1.24
1.25	2.50	4.20	38	3.00	2020-1.25
1.26	2.52	4.30	38	3.00	2020-1.26
1.27	2.54	4.30	38	3.00	2020-1.27
1.28	2.56	4.30	38	3.00	2020-1.28
1.29	2.58	4.30	38	3.00	2020-1.29
1.30	2.60	4.30	38	3.00	2020-1.30
1.31	2.62	4.40	38	3.00	2020-1.31
1.32	2.64	4.40	38	3.00	2020-1.32
1.33	2.66	4.40	38	3.00	2020-1.33
1.34	2.68	4.40	38	3.00	2020-1.34
1.35	2.70	4.40	38	3.00	2020-1.35
1.36	2.72	4.50	38	3.00	2020-1.36
1.37	2.74	4.50	38	3.00	2020-1.37
1.38	2.76	4.50	38	3.00	2020-1.38
1.39	2.78	4.50	38	3.00	2020-1.39
1.40	2.80	4.50	38	3.00	2020-1.40
1.41	2.82	4.60	38	3.00	2020-1.41
1.42	2.84	4.60	38	3.00	2020-1.42
1.43	2.86	4.60	38	3.00	2020-1.43
1.44	2.88	4.60	38	3.00	2020-1.44
1.45	2.90	4.60	38	3.00	2020-1.45
1.46	2.92	4.70	38	3.00	2020-1.46
1.47	2.94	4.70	38	3.00	2020-1.47
1.48	2.96	4.70	38	3.00	2020-1.48
1.49	2.98	4.70	38	3.00	2020-1.49
1.50	3.00	4.70	38	3.00	2020-1.50

D1 0/+0.005	L2	L3	L1	D2 h6	Art. N°
1.51	3.02	5.10	38	3.00	2020-1.51
1.52	3.04	5.10	38	3.00	2020-1.52
1.53	3.06	5.10	38	3.00	2020-1.53
1.54	3.08	5.10	38	3.00	2020-1.54
1.55	3.10	5.10	38	3.00	2020-1.55
1.56	3.12	5.20	38	3.00	2020-1.56
1.57	3.14	5.20	38	3.00	2020-1.57
1.58	3.16	5.20	38	3.00	2020-1.58
1.59	3.18	5.20	38	3.00	2020-1.59
1.60	3.20	5.20	38	3.00	2020-1.60
1.61	3.22	5.30	38	3.00	2020-1.61
1.62	3.24	5.30	38	3.00	2020-1.62
1.63	3.26	5.30	38	3.00	2020-1.63
1.64	3.28	5.30	38	3.00	2020-1.64
1.65	3.30	5.30	38	3.00	2020-1.65
1.66	3.32	5.40	38	3.00	2020-1.66
1.67	3.34	5.40	38	3.00	2020-1.67
1.68	3.36	5.40	38	3.00	2020-1.68
1.69	3.38	5.40	38	3.00	2020-1.69
1.70	3.40	5.40	38	3.00	2020-1.70
1.71	3.42	5.50	38	3.00	2020-1.71
1.72	3.44	5.50	38	3.00	2020-1.72
1.73	3.46	5.50	38	3.00	2020-1.73
1.74	3.48	5.50	38	3.00	2020-1.74
1.75	3.50	5.50	38	3.00	2020-1.75
1.76	3.52	5.60	38	3.00	2020-1.76
1.77	3.54	5.60	38	3.00	2020-1.77
1.78	3.56	5.60	38	3.00	2020-1.78
1.79	3.58	5.60	38	3.00	2020-1.79
1.80	3.60	5.60	38	3.00	2020-1.80
1.81	3.62	5.70	38	3.00	2020-1.81
1.82	3.64	5.70	38	3.00	2020-1.82
1.83	3.66	5.70	38	3.00	2020-1.83
1.84	3.68	5.70	38	3.00	2020-1.84
1.85	3.70	5.70	38	3.00	2020-1.85
1.86	3.72	5.80	38	3.00	2020-1.86
1.87	3.74	5.80	38	3.00	2020-1.87
1.88	3.76	5.80	38	3.00	2020-1.88
1.89	3.78	5.80	38	3.00	2020-1.89
1.90	3.80	5.80	38	3.00	2020-1.90
1.91	3.82	5.90	38	3.00	2020-1.91
1.92	3.84	5.90	38	3.00	2020-1.92
1.93	3.86	5.90	38	3.00	2020-1.93
1.94	3.88	5.90	38	3.00	2020-1.94
1.95	3.90	5.90	38	3.00	2020-1.95
1.96	3.92	6.00	38	3.00	2020-1.96
1.97	3.94	6.00	38	3.00	2020-1.97
1.98	3.96	6.00	38	3.00	2020-1.98
1.99	3.98	6.00	38	3.00	2020-1.99
2.00	4.00	6.00	38	3.00	2020-2.00



λ^{35°

Z=2

6xD1

MD
VHM
HM

D1 0 / -0.004	L2	L3	L1	D2 h ₆	Art. N°
0.10	0.50	0.70	38	3.00	2023-0.10
0.11	0.50	0.70	38	3.00	2023-0.11
0.12	0.50	0.70	38	3.00	2023-0.12
0.13	0.80	1.00	38	3.00	2023-0.13
0.14	0.80	1.00	38	3.00	2023-0.14
0.15	0.80	1.00	38	3.00	2023-0.15
0.16	1.10	1.40	38	3.00	2023-0.16
0.17	1.10	1.40	38	3.00	2023-0.17
0.18	1.10	1.40	38	3.00	2023-0.18
0.19	1.10	1.40	38	3.00	2023-0.19
0.20	1.50	1.80	38	3.00	2023-0.20
0.21	1.50	1.80	38	3.00	2023-0.21
0.22	1.50	1.80	38	3.00	2023-0.22
0.23	1.50	1.80	38	3.00	2023-0.23
0.24	1.50	1.80	38	3.00	2023-0.24
0.25	1.90	2.20	38	3.00	2023-0.25
0.26	1.90	2.20	38	3.00	2023-0.26
0.27	1.90	2.20	38	3.00	2023-0.27
0.28	1.90	2.20	38	3.00	2023-0.28
0.29	1.90	2.20	38	3.00	2023-0.29
0.30	1.80	2.40	38	3.00	2023-0.30
0.31	1.80	2.40	38	3.00	2023-0.31
0.32	1.80	2.40	38	3.00	2023-0.32
0.33	1.80	2.40	38	3.00	2023-0.33
0.34	1.80	2.40	38	3.00	2023-0.34
0.35	2.20	2.80	38	3.00	2023-0.35
0.36	2.20	2.80	38	3.00	2023-0.36
0.37	2.20	2.80	38	3.00	2023-0.37
0.38	2.20	2.80	38	3.00	2023-0.38
0.39	2.70	3.60	38	3.00	2023-0.39
0.40	2.70	3.60	38	3.00	2023-0.40
0.41	2.70	3.60	38	3.00	2023-0.41
0.42	2.70	3.60	38	3.00	2023-0.42
0.43	2.70	3.60	38	3.00	2023-0.43
0.44	2.70	3.60	38	3.00	2023-0.44
0.45	2.70	3.60	38	3.00	2023-0.45
0.46	2.70	3.60	38	3.00	2023-0.46
0.47	2.70	3.60	38	3.00	2023-0.47
0.48	2.70	3.60	38	3.00	2023-0.48

D1 0 / -0.004	L2	L3	L1	D2 h ₆	Art. N°
0.49	3.20	4.00	38	3.00	2023-0.49
0.50	3.20	4.00	38	3.00	2023-0.50
0.51	3.20	4.00	38	3.00	2023-0.51
0.52	3.20	4.00	38	3.00	2023-0.52
0.53	3.20	4.00	38	3.00	2023-0.53
0.54	3.60	4.50	38	3.00	2023-0.54
0.55	3.60	4.50	38	3.00	2023-0.55
0.56	3.60	4.50	38	3.00	2023-0.56
0.57	3.60	4.50	38	3.00	2023-0.57
0.58	3.60	4.50	38	3.00	2023-0.58
0.59	3.60	4.50	38	3.00	2023-0.59
0.60	3.60	4.50	38	3.00	2023-0.60
0.61	3.90	5.00	38	3.00	2023-0.61
0.62	3.90	5.00	38	3.00	2023-0.62
0.63	3.90	5.00	38	3.00	2023-0.63
0.64	3.90	5.00	38	3.00	2023-0.64
0.65	3.90	5.00	38	3.00	2023-0.65
0.66	3.90	5.00	38	3.00	2023-0.66
0.67	3.90	5.00	38	3.00	2023-0.67
0.68	4.50	5.60	38	3.00	2023-0.68
0.69	4.50	5.60	38	3.00	2023-0.69
0.70	4.50	5.60	38	3.00	2023-0.70
0.71	4.50	5.60	38	3.00	2023-0.71
0.72	4.50	5.60	38	3.00	2023-0.72
0.73	4.50	5.60	38	3.00	2023-0.73
0.74	4.50	5.60	38	3.00	2023-0.74
0.75	4.50	5.60	38	3.00	2023-0.75
0.76	5.00	6.30	38	3.00	2023-0.76
0.77	5.00	6.30	38	3.00	2023-0.77
0.78	5.00	6.30	38	3.00	2023-0.78
0.79	5.00	6.30	38	3.00	2023-0.79
0.80	5.00	6.30	38	3.00	2023-0.80
0.81	5.00	6.30	38	3.00	2023-0.81
0.82	5.00	6.30	38	3.00	2023-0.82
0.83	5.00	6.30	38	3.00	2023-0.83
0.84	5.00	6.30	38	3.00	2023-0.84
0.85	5.00	6.30	38	3.00	2023-0.85
0.86	5.70	7.10	38	3.00	2023-0.86
0.87	5.70	7.10	38	3.00	2023-0.87
0.88	5.70	7.10	38	3.00	2023-0.88
0.89	5.70	7.10	38	3.00	2023-0.89
0.90	5.70	7.10	38	3.00	2023-0.90
0.91	5.70	7.10	38	3.00	2023-0.91
0.92	5.70	7.10	38	3.00	2023-0.92
0.93	5.70	7.10	38	3.00	2023-0.93
0.94	5.70	7.10	38	3.00	2023-0.94
0.95	5.70	7.10	38	3.00	2023-0.95
0.96	6.50	8.00	38	3.00	2023-0.96
0.97	6.50	8.00	38	3.00	2023-0.97
0.98	6.50	8.00	38	3.00	2023-0.98
0.99	6.50	8.00	38	3.00	2023-0.99

Micro-forets

Microbohrer

Micro drills

Ø 1.00 - Ø 2.00 mm

2023

D1 0 / -0.004	L2	L3	L1	D2 h6	Art. N°
1.00	6.50	8.00	38	3.00	2023-1.00
1.01	6.50	8.00	38	3.00	2023-1.01
1.02	6.50	8.00	38	3.00	2023-1.02
1.03	6.50	8.00	38	3.00	2023-1.03
1.04	6.50	8.00	38	3.00	2023-1.04
1.05	6.50	8.00	38	3.00	2023-1.05
1.06	7.30	9.00	38	3.00	2023-1.06
1.07	7.30	9.00	38	3.00	2023-1.07
1.08	7.30	9.00	38	3.00	2023-1.08
1.09	7.30	9.00	38	3.00	2023-1.09
1.10	7.30	9.00	38	3.00	2023-1.10
1.11	7.30	9.00	38	3.00	2023-1.11
1.12	7.30	9.00	38	3.00	2023-1.12
1.13	7.30	9.00	38	3.00	2023-1.13
1.14	7.30	9.00	38	3.00	2023-1.14
1.15	7.30	9.00	38	3.00	2023-1.15
1.16	8.20	10.00	38	3.00	2023-1.16
1.17	8.20	10.00	38	3.00	2023-1.17
1.18	8.20	10.00	38	3.00	2023-1.18
1.19	8.20	10.00	38	3.00	2023-1.19
1.20	8.20	10.00	38	3.00	2023-1.20
1.21	8.20	10.00	38	3.00	2023-1.21
1.22	8.20	10.00	38	3.00	2023-1.22
1.23	8.20	10.00	38	3.00	2023-1.23
1.24	8.20	10.00	38	3.00	2023-1.24
1.25	8.20	10.00	38	3.00	2023-1.25
1.26	8.20	10.00	38	3.00	2023-1.26
1.27	8.20	10.00	38	3.00	2023-1.27
1.28	8.20	10.00	38	3.00	2023-1.28
1.29	8.20	10.00	38	3.00	2023-1.29
1.30	8.20	10.00	38	3.00	2023-1.30
1.31	9.20	11.20	38	3.00	2023-1.31
1.32	9.20	11.20	38	3.00	2023-1.32
1.33	9.20	11.20	38	3.00	2023-1.33
1.34	9.20	11.20	38	3.00	2023-1.34
1.35	9.20	11.20	38	3.00	2023-1.35
1.36	9.20	11.20	38	3.00	2023-1.36
1.37	9.20	11.20	38	3.00	2023-1.37
1.38	9.20	11.20	38	3.00	2023-1.38
1.39	9.20	11.20	38	3.00	2023-1.39
1.40	9.20	11.20	38	3.00	2023-1.40
1.41	9.20	11.20	38	3.00	2023-1.41
1.42	9.20	11.20	38	3.00	2023-1.42
1.43	9.20	11.20	38	3.00	2023-1.43
1.44	9.20	11.20	38	3.00	2023-1.44
1.45	9.20	11.20	38	3.00	2023-1.45
1.46	9.20	11.20	38	3.00	2023-1.46
1.47	9.20	11.20	38	3.00	2023-1.47
1.48	9.20	11.20	38	3.00	2023-1.48
1.49	9.20	11.20	38	3.00	2023-1.49
1.50	9.20	11.20	38	3.00	2023-1.50

D1 0 / -0.004	L2	L3	L1	D2 h6	Art. N°
1.51	11.20	13.40	38	3.00	2023-1.51
1.52	11.20	13.40	38	3.00	2023-1.52
1.53	11.20	13.40	38	3.00	2023-1.53
1.54	11.20	13.40	38	3.00	2023-1.54
1.55	11.20	13.40	38	3.00	2023-1.55
1.56	11.20	13.40	38	3.00	2023-1.56
1.57	11.20	13.40	38	3.00	2023-1.57
1.58	11.20	13.40	38	3.00	2023-1.58
1.59	11.20	13.40	38	3.00	2023-1.59
1.60	11.20	13.40	38	3.00	2023-1.60
1.61	11.20	13.40	38	3.00	2023-1.61
1.62	11.20	13.40	38	3.00	2023-1.62
1.63	11.20	13.40	38	3.00	2023-1.63
1.64	11.20	13.40	38	3.00	2023-1.64
1.65	11.20	13.40	38	3.00	2023-1.65
1.66	11.20	13.40	38	3.00	2023-1.66
1.67	11.20	13.40	38	3.00	2023-1.67
1.68	11.20	13.40	38	3.00	2023-1.68
1.69	11.20	13.40	38	3.00	2023-1.69
1.70	11.20	13.40	38	3.00	2023-1.70
1.71	11.20	13.40	38	3.00	2023-1.71
1.72	11.20	13.40	38	3.00	2023-1.72
1.73	11.20	13.40	38	3.00	2023-1.73
1.74	11.20	13.40	38	3.00	2023-1.74
1.75	11.20	13.40	38	3.00	2023-1.75
1.76	11.20	13.40	38	3.00	2023-1.76
1.77	11.20	13.40	38	3.00	2023-1.77
1.78	11.20	13.40	38	3.00	2023-1.78
1.79	11.20	13.40	38	3.00	2023-1.79
1.80	11.20	13.40	38	3.00	2023-1.80
1.81	11.20	13.40	38	3.00	2023-1.81
1.82	11.20	13.40	38	3.00	2023-1.82
1.83	11.20	13.40	38	3.00	2023-1.83
1.84	11.20	13.40	38	3.00	2023-1.84
1.85	11.20	13.40	38	3.00	2023-1.85
1.86	11.20	13.40	38	3.00	2023-1.86
1.87	11.20	13.40	38	3.00	2023-1.87
1.88	11.20	13.40	38	3.00	2023-1.88
1.89	11.20	13.40	38	3.00	2023-1.89
1.90	11.20	13.40	38	3.00	2023-1.90
1.91	11.20	13.40	38	3.00	2023-1.91
1.92	11.20	13.40	38	3.00	2023-1.92
1.93	11.20	13.40	38	3.00	2023-1.93
1.94	11.20	13.40	38	3.00	2023-1.94
1.95	11.20	13.40	38	3.00	2023-1.95
1.96	11.20	13.40	38	3.00	2023-1.96
1.97	11.20	13.40	38	3.00	2023-1.97
1.98	11.20	13.40	38	3.00	2023-1.98
1.99	11.20	13.40	38	3.00	2023-1.99
2.00	11.20	13.40	38	3.00	2023-2.00

D1 0 / -0.004	L2	L3	L1	D2 h6	Art. N°
2.01	12.50	14.00	38	3.00	2023-2.01
2.02	12.50	14.00	38	3.00	2023-2.02
2.03	12.50	14.00	38	3.00	2023-2.03
2.04	12.50	14.00	38	3.00	2023-2.04
2.05	12.50	14.00	38	3.00	2023-2.05
2.06	12.50	14.00	38	3.00	2023-2.06
2.07	12.50	14.00	38	3.00	2023-2.07
2.08	12.50	14.00	38	3.00	2023-2.08
2.09	12.50	14.00	38	3.00	2023-2.09
2.10	12.50	14.00	38	3.00	2023-2.10
2.11	12.50	14.00	38	3.00	2023-2.11
2.12	12.50	14.00	38	3.00	2023-2.12
2.13	12.50	14.00	38	3.00	2023-2.13
2.14	12.50	14.00	38	3.00	2023-2.14
2.15	12.50	14.00	38	3.00	2023-2.15
2.16	12.50	14.00	38	3.00	2023-2.16
2.17	12.50	14.00	38	3.00	2023-2.17
2.18	12.50	14.00	38	3.00	2023-2.18
2.19	12.50	14.00	38	3.00	2023-2.19
2.20	12.50	14.00	38	3.00	2023-2.20
2.21	12.50	14.00	38	3.00	2023-2.21
2.22	12.50	14.00	38	3.00	2023-2.22
2.23	12.50	14.00	38	3.00	2023-2.23
2.24	12.50	14.00	38	3.00	2023-2.24
2.25	12.50	14.00	38	3.00	2023-2.25
2.26	12.50	14.00	38	3.00	2023-2.26
2.27	12.50	14.00	38	3.00	2023-2.27
2.28	12.50	14.00	38	3.00	2023-2.28
2.29	12.50	14.00	38	3.00	2023-2.29
2.30	12.50	14.00	38	3.00	2023-2.30
2.31	12.50	14.00	38	3.00	2023-2.31
2.32	12.50	14.00	38	3.00	2023-2.32
2.33	12.50	14.00	38	3.00	2023-2.33
2.34	12.50	14.00	38	3.00	2023-2.34
2.35	12.50	14.00	38	3.00	2023-2.35
2.36	12.50	14.00	38	3.00	2023-2.36
2.37	12.50	14.00	38	3.00	2023-2.37
2.38	12.50	14.00	38	3.00	2023-2.38
2.39	12.50	14.00	38	3.00	2023-2.39
2.40	12.50	14.00	38	3.00	2023-2.40
2.41	12.50	14.00	38	3.00	2023-2.41
2.42	12.50	14.00	38	3.00	2023-2.42
2.43	12.50	14.00	38	3.00	2023-2.43
2.44	12.50	14.00	38	3.00	2023-2.44
2.45	12.50	14.00	38	3.00	2023-2.45
2.46	12.50	14.00	38	3.00	2023-2.46
2.47	12.50	14.00	38	3.00	2023-2.47
2.48	12.50	14.00	38	3.00	2023-2.48
2.49	12.50	14.00	38	3.00	2023-2.49
2.50	14.00	17.00	38	3.00	2023-2.50

D1 0 / -0.004	L2	L3	L1	D2 h6	Art. N°
2.51	14.00	17.00	38	3.00	2023-2.51
2.52	14.00	17.00	38	3.00	2023-2.52
2.53	14.00	17.00	38	3.00	2023-2.53
2.54	14.00	17.00	38	3.00	2023-2.54
2.55	14.00	17.00	38	3.00	2023-2.55
2.56	14.00	17.00	38	3.00	2023-2.56
2.57	14.00	17.00	38	3.00	2023-2.57
2.58	14.00	17.00	38	3.00	2023-2.58
2.59	14.00	17.00	38	3.00	2023-2.59
2.60	14.00	17.00	38	3.00	2023-2.60
2.61	14.00	17.00	38	3.00	2023-2.61
2.62	14.00	17.00	38	3.00	2023-2.62
2.63	14.00	17.00	38	3.00	2023-2.63
2.64	14.00	17.00	38	3.00	2023-2.64
2.65	14.00	17.00	38	3.00	2023-2.65
2.66	14.00	17.00	38	3.00	2023-2.66
2.67	14.00	17.00	38	3.00	2023-2.67
2.68	14.00	17.00	38	3.00	2023-2.68
2.69	14.00	17.00	38	3.00	2023-2.69
2.70	14.00	17.00	38	3.00	2023-2.70
2.71	14.00	17.00	38	3.00	2023-2.71
2.72	14.00	17.00	38	3.00	2023-2.72
2.73	14.00	17.00	38	3.00	2023-2.73
2.74	14.00	17.00	38	3.00	2023-2.74
2.75	14.00	17.00	38	3.00	2023-2.75
2.76	14.00	17.00	38	3.00	2023-2.76
2.77	14.00	17.00	38	3.00	2023-2.77
2.78	14.00	17.00	38	3.00	2023-2.78
2.79	14.00	17.00	38	3.00	2023-2.79
2.80	14.00	17.00	38	3.00	2023-2.80
2.81	14.00	17.00	38	3.00	2023-2.81
2.82	14.00	17.00	38	3.00	2023-2.82
2.83	14.00	17.00	38	3.00	2023-2.83
2.84	14.00	17.00	38	3.00	2023-2.84
2.85	14.00	17.00	38	3.00	2023-2.85
2.86	14.00	17.00	38	3.00	2023-2.86
2.87	14.00	17.00	38	3.00	2023-2.87
2.88	14.00	17.00	38	3.00	2023-2.88
2.89	14.00	17.00	38	3.00	2023-2.89
2.90	14.00	17.00	38	3.00	2023-2.90
2.91	14.00	17.00	38	3.00	2023-2.91
2.92	14.00	17.00	38	3.00	2023-2.92
2.93	14.00	17.00	38	3.00	2023-2.93
2.94	14.00	17.00	38	3.00	2023-2.94
2.95	14.00	17.00	38	3.00	2023-2.95
2.96	14.00	17.00	38	3.00	2023-2.96
2.97	14.00	17.00	38	3.00	2023-2.97
2.98	14.00	17.00	38	3.00	2023-2.98
2.99	14.00	17.00	38	3.00	2023-2.99
3.00	14.00	17.00	38	3.00	2023-3.00

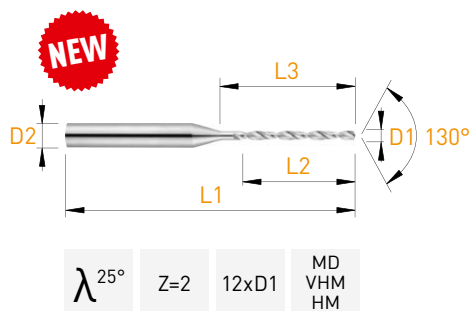
Micro-forets

Microbohrer

Micro drills

Ø 0.20 - Ø 1.09 mm

2026



D1 h ₆	L2	L3	L1	D2 h ₆	Art. N°
0.20	2.40	3.50	38	3.00	2026-0.20
0.21	2.52	3.50	38	3.00	2026-0.21
0.22	2.64	3.50	38	3.00	2026-0.22
0.23	2.76	3.50	38	3.00	2026-0.23
0.24	2.88	4.00	38	3.00	2026-0.24
0.25	3.00	4.00	38	3.00	2026-0.25
0.26	3.12	4.00	38	3.00	2026-0.26
0.27	3.24	4.00	38	3.00	2026-0.27
0.28	3.36	4.50	38	3.00	2026-0.28
0.29	3.48	4.50	38	3.00	2026-0.29
0.30	3.60	4.50	38	3.00	2026-0.30
0.31	3.72	4.50	38	3.00	2026-0.31
0.32	3.84	5.00	38	3.00	2026-0.32
0.33	3.96	5.00	38	3.00	2026-0.33
0.34	4.08	5.00	38	3.00	2026-0.34
0.35	4.20	5.00	38	3.00	2026-0.35
0.36	4.32	5.50	38	3.00	2026-0.36
0.37	4.44	5.50	38	3.00	2026-0.37
0.38	4.56	5.50	38	3.00	2026-0.38
0.39	4.68	5.50	38	3.00	2026-0.39
0.40	4.80	6.00	38	3.00	2026-0.40
0.41	4.92	6.00	38	3.00	2026-0.41
0.42	5.04	6.00	38	3.00	2026-0.42
0.43	5.16	6.00	38	3.00	2026-0.43
0.44	5.28	6.50	38	3.00	2026-0.44
0.45	5.40	6.50	38	3.00	2026-0.45
0.46	5.52	6.50	38	3.00	2026-0.46
0.47	5.64	6.50	38	3.00	2026-0.47
0.48	5.76	7.00	38	3.00	2026-0.48
0.49	5.88	7.00	38	3.00	2026-0.49
0.50	6.00	7.00	38	3.00	2026-0.50
0.51	6.12	7.00	38	3.00	2026-0.51
0.52	6.24	7.50	38	3.00	2026-0.52
0.53	6.36	7.50	38	3.00	2026-0.53
0.54	6.48	7.50	38	3.00	2026-0.54
0.55	6.60	7.50	38	3.00	2026-0.55
0.56	6.72	8.00	38	3.00	2026-0.56
0.57	6.84	8.00	38	3.00	2026-0.57
0.58	6.96	8.00	38	3.00	2026-0.58

D1 h ₆	L2	L3	L1	D2 h ₆	Art. N°
0.59	7.08	8.00	38	3.00	2026-0.59
0.60	7.20	9.00	38	3.00	2026-0.60
0.61	7.32	9.00	38	3.00	2026-0.61
0.62	7.44	9.00	38	3.00	2026-0.62
0.63	7.56	9.00	38	3.00	2026-0.63
0.64	7.68	9.50	38	3.00	2026-0.64
0.65	7.80	9.50	38	3.00	2026-0.65
0.66	7.92	9.50	38	3.00	2026-0.66
0.67	8.04	9.50	38	3.00	2026-0.67
0.68	8.16	10.00	38	3.00	2026-0.68
0.69	8.28	10.00	38	3.00	2026-0.69
0.70	8.40	10.00	38	3.00	2026-0.70
0.71	8.52	10.00	38	3.00	2026-0.71
0.72	8.64	10.50	38	3.00	2026-0.72
0.73	8.76	10.50	38	3.00	2026-0.73
0.74	8.88	10.50	38	3.00	2026-0.74
0.75	9.00	10.50	38	3.00	2026-0.75
0.76	9.12	11.00	38	3.00	2026-0.76
0.77	9.24	11.00	38	3.00	2026-0.77
0.78	9.36	11.00	38	3.00	2026-0.78
0.79	9.48	11.00	38	3.00	2026-0.79
0.80	9.60	11.50	38	3.00	2026-0.80
0.81	9.72	11.50	38	3.00	2026-0.81
0.82	9.84	11.50	38	3.00	2026-0.82
0.83	9.96	11.50	38	3.00	2026-0.83
0.84	10.08	12.00	38	3.00	2026-0.84
0.85	10.20	12.00	38	3.00	2026-0.85
0.86	10.32	12.00	38	3.00	2026-0.86
0.87	10.44	12.00	38	3.00	2026-0.87
0.88	10.56	12.50	38	3.00	2026-0.88
0.89	10.68	12.50	38	3.00	2026-0.89
0.90	10.80	12.50	38	3.00	2026-0.90
0.91	10.92	12.50	38	3.00	2026-0.91
0.92	11.04	13.00	38	3.00	2026-0.92
0.93	11.16	13.00	38	3.00	2026-0.93
0.94	11.28	13.00	38	3.00	2026-0.94
0.95	11.40	13.00	38	3.00	2026-0.95
0.96	11.52	13.50	38	3.00	2026-0.96
0.97	11.64	13.50	38	3.00	2026-0.97
0.98	11.76	13.50	38	3.00	2026-0.98
0.99	11.88	13.50	38	3.00	2026-0.99
1.00	12.00	14.50	38	3.00	2026-1.00
1.01	12.12	14.50	38	3.00	2026-1.01
1.02	12.24	14.50	38	3.00	2026-1.02
1.03	12.36	14.50	38	3.00	2026-1.03
1.04	12.48	15.00	38	3.00	2026-1.04
1.05	12.60	15.00	38	3.00	2026-1.05
1.06	12.72	15.00	38	3.00	2026-1.06
1.07	12.84	15.00	38	3.00	2026-1.07
1.08	12.96	15.50	38	3.00	2026-1.08
1.09	13.08	15.50	38	3.00	2026-1.09

D1 h6	L2	L3	L1	D2 h6	Art. N°
1.10	13.20	15.50	38	3.00	2026-1.10
1.11	13.32	15.50	38	3.00	2026-1.11
1.12	13.44	16.00	38	3.00	2026-1.12
1.13	13.56	16.00	38	3.00	2026-1.13
1.14	13.68	16.00	38	3.00	2026-1.14
1.15	13.80	16.00	38	3.00	2026-1.15
1.16	13.92	16.50	38	3.00	2026-1.16
1.17	14.04	16.50	38	3.00	2026-1.17
1.18	14.16	16.50	38	3.00	2026-1.18
1.19	14.28	16.50	38	3.00	2026-1.19
1.20	14.40	17.00	38	3.00	2026-1.20
1.21	14.52	17.00	38	3.00	2026-1.21
1.22	14.64	17.00	38	3.00	2026-1.22
1.23	14.76	17.00	38	3.00	2026-1.23
1.24	14.88	17.50	38	3.00	2026-1.24
1.25	15.00	17.50	38	3.00	2026-1.25
1.26	15.12	17.50	50	3.00	2026-1.26
1.27	15.24	17.50	50	3.00	2026-1.27
1.28	15.36	18.00	50	3.00	2026-1.28
1.29	15.48	18.00	50	3.00	2026-1.29
1.30	15.60	18.00	50	3.00	2026-1.30
1.31	15.72	18.00	50	3.00	2026-1.31
1.32	15.84	18.50	50	3.00	2026-1.32
1.33	15.96	18.50	50	3.00	2026-1.33
1.34	16.08	18.50	50	3.00	2026-1.34
1.35	16.20	18.50	50	3.00	2026-1.35
1.36	16.32	19.00	50	3.00	2026-1.36
1.37	16.44	19.00	50	3.00	2026-1.37
1.38	16.56	19.00	50	3.00	2026-1.38
1.39	16.68	19.00	50	3.00	2026-1.39
1.40	16.80	19.50	50	3.00	2026-1.40
1.41	16.92	19.50	50	3.00	2026-1.41
1.42	17.04	19.50	50	3.00	2026-1.42
1.43	17.16	19.50	50	3.00	2026-1.43
1.44	17.28	20.00	50	3.00	2026-1.44
1.45	17.40	20.00	50	3.00	2026-1.45
1.46	17.52	20.00	50	3.00	2026-1.46
1.47	17.64	20.00	50	3.00	2026-1.47
1.48	17.76	20.50	50	3.00	2026-1.48
1.49	17.88	20.50	50	3.00	2026-1.49
1.50	18.00	21.00	50	3.00	2026-1.50
1.51	18.12	21.00	50	3.00	2026-1.51
1.52	18.24	21.00	50	3.00	2026-1.52
1.53	18.36	21.00	50	3.00	2026-1.53
1.54	18.48	21.50	50	3.00	2026-1.54
1.55	18.60	21.50	50	3.00	2026-1.55
1.56	18.72	21.50	50	3.00	2026-1.56
1.57	18.84	21.50	50	3.00	2026-1.57
1.58	18.96	22.00	50	3.00	2026-1.58
1.59	19.08	22.00	50	3.00	2026-1.59
1.60	19.20	22.00	50	3.00	2026-1.60

D1 h6	L2	L3	L1	D2 h6	Art. N°
1.61	19.32	22.00	50	3.00	2026-1.61
1.62	19.44	22.50	50	3.00	2026-1.62
1.63	19.56	22.50	50	3.00	2026-1.63
1.64	19.68	22.50	50	3.00	2026-1.64
1.65	19.80	22.50	50	3.00	2026-1.65
1.66	19.92	23.00	50	3.00	2026-1.66
1.67	20.04	23.00	50	3.00	2026-1.67
1.68	20.16	23.00	50	3.00	2026-1.68
1.69	20.28	23.00	50	3.00	2026-1.69
1.70	20.40	23.50	50	3.00	2026-1.70
1.71	20.52	23.50	50	3.00	2026-1.71
1.72	20.64	23.50	50	3.00	2026-1.72
1.73	20.76	23.50	50	3.00	2026-1.73
1.74	20.88	24.00	50	3.00	2026-1.74
1.75	21.00	24.00	50	3.00	2026-1.75
1.76	21.12	24.00	50	3.00	2026-1.76
1.77	21.24	24.00	50	3.00	2026-1.77
1.78	21.36	24.50	50	3.00	2026-1.78
1.79	21.48	24.50	50	3.00	2026-1.79
1.80	21.60	25.00	50	3.00	2026-1.80
1.81	21.72	25.00	50	3.00	2026-1.81
1.82	21.84	25.00	50	3.00	2026-1.82
1.83	21.96	25.00	50	3.00	2026-1.83
1.84	22.08	25.50	50	3.00	2026-1.84
1.85	22.20	25.50	50	3.00	2026-1.85
1.86	22.32	25.50	50	3.00	2026-1.86
1.87	22.44	25.50	50	3.00	2026-1.87
1.88	22.56	26.00	50	3.00	2026-1.88
1.89	22.68	26.00	50	3.00	2026-1.89
1.90	22.80	26.00	50	3.00	2026-1.90
1.91	22.92	26.00	50	3.00	2026-1.91
1.92	23.04	26.50	50	3.00	2026-1.92
1.93	23.16	26.50	50	3.00	2026-1.93
1.94	23.28	26.50	50	3.00	2026-1.94
1.95	23.40	26.50	50	3.00	2026-1.95
1.96	23.52	27.00	50	3.00	2026-1.96
1.97	23.64	27.00	50	3.00	2026-1.97
1.98	23.76	27.00	50	3.00	2026-1.98
1.99	23.88	27.00	50	3.00	2026-1.99
2.00	24.00	27.00	50	3.00	2026-2.00

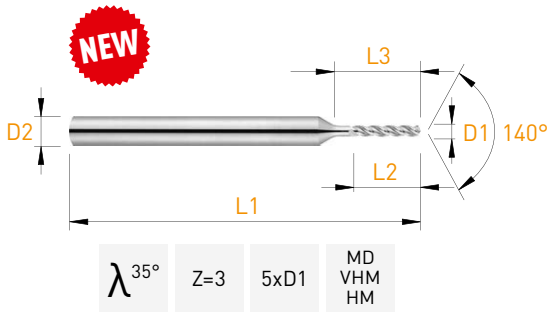
Micro-forets

Microbohrer

Micro drills

Ø 0.20 - Ø 1.09 mm

2030



D1 h ₆	L2	L3	L1	D2 h ₆	Art. N°
0.20	1.00	1.50	38	3.00	2030-0.20
0.21	1.05	1.50	38	3.00	2030-0.21
0.22	1.10	1.60	38	3.00	2030-0.22
0.23	1.15	1.60	38	3.00	2030-0.23
0.24	1.20	1.70	38	3.00	2030-0.24
0.25	1.25	1.70	38	3.00	2030-0.25
0.26	1.30	1.80	38	3.00	2030-0.26
0.27	1.35	1.80	38	3.00	2030-0.27
0.28	1.40	1.90	38	3.00	2030-0.28
0.29	1.45	1.90	38	3.00	2030-0.29
0.30	1.50	2.00	38	3.00	2030-0.30
0.31	1.55	2.00	38	3.00	2030-0.31
0.32	1.60	2.10	38	3.00	2030-0.32
0.33	1.65	2.10	38	3.00	2030-0.33
0.34	1.70	2.20	38	3.00	2030-0.34
0.35	1.75	2.20	38	3.00	2030-0.35
0.36	1.80	2.30	38	3.00	2030-0.36
0.37	1.85	2.30	38	3.00	2030-0.37
0.38	1.90	2.40	38	3.00	2030-0.38
0.39	1.95	2.40	38	3.00	2030-0.39
0.40	2.00	2.50	38	3.00	2030-0.40
0.41	2.05	2.50	38	3.00	2030-0.41
0.42	2.10	2.60	38	3.00	2030-0.42
0.43	2.15	2.60	38	3.00	2030-0.43
0.44	2.20	2.70	38	3.00	2030-0.44
0.45	2.25	2.70	38	3.00	2030-0.45
0.46	2.30	2.80	38	3.00	2030-0.46
0.47	2.35	2.80	38	3.00	2030-0.47
0.48	2.40	2.90	38	3.00	2030-0.48
0.49	2.45	2.90	38	3.00	2030-0.49
0.50	2.50	3.00	38	3.00	2030-0.50
0.51	2.55	3.00	38	3.00	2030-0.51
0.52	2.60	3.10	38	3.00	2030-0.52
0.53	2.65	3.10	38	3.00	2030-0.53
0.54	2.70	3.20	38	3.00	2030-0.54
0.55	2.75	3.20	38	3.00	2030-0.55
0.56	2.80	3.30	38	3.00	2030-0.56
0.57	2.85	3.30	38	3.00	2030-0.57
0.58	2.90	3.40	38	3.00	2030-0.58

D1 h ₆	L2	L3	L1	D2 h ₆	Art. N°
0.59	2.95	3.40	38	3.00	2030-0.59
0.60	3.00	3.50	38	3.00	2030-0.60
0.61	3.05	3.50	38	3.00	2030-0.61
0.62	3.10	3.60	38	3.00	2030-0.62
0.63	3.15	3.60	38	3.00	2030-0.63
0.64	3.20	3.70	38	3.00	2030-0.64
0.65	3.25	3.70	38	3.00	2030-0.65
0.66	3.30	3.80	38	3.00	2030-0.66
0.67	3.35	3.80	38	3.00	2030-0.67
0.68	3.40	3.90	38	3.00	2030-0.68
0.69	3.45	3.90	38	3.00	2030-0.69
0.70	3.50	4.00	38	3.00	2030-0.70
0.71	3.55	4.00	38	3.00	2030-0.71
0.72	3.60	4.10	38	3.00	2030-0.72
0.73	3.65	4.10	38	3.00	2030-0.73
0.74	3.70	4.20	38	3.00	2030-0.74
0.75	3.75	4.20	38	3.00	2030-0.75
0.76	3.80	4.30	38	3.00	2030-0.76
0.77	3.85	4.30	38	3.00	2030-0.77
0.78	3.90	4.40	38	3.00	2030-0.78
0.79	3.95	4.40	38	3.00	2030-0.79
0.80	4.00	4.50	38	3.00	2030-0.80
0.81	4.05	4.50	38	3.00	2030-0.81
0.82	4.10	4.60	38	3.00	2030-0.82
0.83	4.15	4.60	38	3.00	2030-0.83
0.84	4.20	4.70	38	3.00	2030-0.84
0.85	4.25	4.70	38	3.00	2030-0.85
0.86	4.30	4.80	38	3.00	2030-0.86
0.87	4.35	4.80	38	3.00	2030-0.87
0.88	4.40	4.90	38	3.00	2030-0.88
0.89	4.45	4.90	38	3.00	2030-0.89
0.90	4.50	5.00	38	3.00	2030-0.90
0.91	4.55	5.00	38	3.00	2030-0.91
0.92	4.60	5.10	38	3.00	2030-0.92
0.93	4.65	5.10	38	3.00	2030-0.93
0.94	4.70	5.20	38	3.00	2030-0.94
0.95	4.75	5.20	38	3.00	2030-0.95
0.96	4.80	5.30	38	3.00	2030-0.96
0.97	4.85	5.30	38	3.00	2030-0.97
0.98	4.90	5.40	38	3.00	2030-0.98
0.99	4.95	5.40	38	3.00	2030-0.99
1.00	5.00	6.50	38	3.00	2030-1.00
1.01	5.05	6.50	38	3.00	2030-1.01
1.02	5.10	6.50	38	3.00	2030-1.02
1.03	5.15	6.50	38	3.00	2030-1.03
1.04	5.20	6.50	38	3.00	2030-1.04
1.05	5.25	6.50	38	3.00	2030-1.05
1.06	5.30	6.50	38	3.00	2030-1.06
1.07	5.35	7.50	38	3.00	2030-1.07
1.08	5.40	7.50	38	3.00	2030-1.08
1.09	5.45	7.50	38	3.00	2030-1.09

D1 h6	L2	L3	L1	D2 h6	Art. N°
1.10	5.50	7.50	38	3.00	2030-1.10
1.11	5.55	7.50	38	3.00	2030-1.11
1.12	5.60	7.50	38	3.00	2030-1.12
1.13	5.65	7.50	38	3.00	2030-1.13
1.14	5.70	7.50	38	3.00	2030-1.14
1.15	5.75	7.50	38	3.00	2030-1.15
1.16	5.80	7.50	38	3.00	2030-1.16
1.17	5.85	7.50	38	3.00	2030-1.17
1.18	5.90	8.50	38	3.00	2030-1.18
1.19	5.95	8.50	38	3.00	2030-1.19
1.20	6.00	8.50	38	3.00	2030-1.20
1.21	6.05	8.50	38	3.00	2030-1.21
1.22	6.10	8.50	38	3.00	2030-1.22
1.23	6.15	8.50	38	3.00	2030-1.23
1.24	6.20	8.50	38	3.00	2030-1.24
1.25	6.25	8.50	38	3.00	2030-1.25
1.26	6.30	8.50	38	3.00	2030-1.26
1.27	6.35	8.50	38	3.00	2030-1.27
1.28	6.40	8.50	38	3.00	2030-1.28
1.29	6.45	8.50	38	3.00	2030-1.29
1.30	6.50	8.50	38	3.00	2030-1.30
1.31	6.55	8.50	38	3.00	2030-1.31
1.32	6.60	8.50	38	3.00	2030-1.32
1.33	6.65	9.50	38	3.00	2030-1.33
1.34	6.70	9.50	38	3.00	2030-1.34
1.35	6.75	9.50	38	3.00	2030-1.35
1.36	6.80	9.50	38	3.00	2030-1.36
1.37	6.85	9.50	38	3.00	2030-1.37
1.38	6.90	9.50	38	3.00	2030-1.38
1.39	6.95	9.50	38	3.00	2030-1.39
1.40	7.00	9.50	38	3.00	2030-1.40
1.41	7.05	9.50	38	3.00	2030-1.41
1.42	7.10	9.50	38	3.00	2030-1.42
1.43	7.15	9.50	38	3.00	2030-1.43
1.44	7.20	9.50	38	3.00	2030-1.44
1.45	7.25	9.50	38	3.00	2030-1.45
1.46	7.30	9.50	38	3.00	2030-1.46
1.47	7.35	9.50	38	3.00	2030-1.47
1.48	7.40	9.50	38	3.00	2030-1.48
1.49	7.45	9.50	38	3.00	2030-1.49
1.50	7.50	9.50	38	3.00	2030-1.50
1.51	7.55	10.50	38	3.00	2030-1.51
1.52	7.60	10.50	38	3.00	2030-1.52
1.53	7.65	10.50	38	3.00	2030-1.53
1.54	7.70	10.50	38	3.00	2030-1.54
1.55	7.75	10.50	38	3.00	2030-1.55
1.56	7.80	10.50	38	3.00	2030-1.56
1.57	7.85	10.50	38	3.00	2030-1.57
1.58	7.90	10.50	38	3.00	2030-1.58
1.59	7.95	10.50	38	3.00	2030-1.59
1.60	8.00	10.50	38	3.00	2030-1.60

D1 h6	L2	L3	L1	D2 h6	Art. N°
1.61	8.05	10.50	38	3.00	2030-1.61
1.62	8.10	10.50	38	3.00	2030-1.62
1.63	8.15	10.50	38	3.00	2030-1.63
1.64	8.20	10.50	38	3.00	2030-1.64
1.65	8.25	10.50	38	3.00	2030-1.65
1.66	8.30	10.50	38	3.00	2030-1.66
1.67	8.35	10.50	38	3.00	2030-1.67
1.68	8.40	10.50	38	3.00	2030-1.68
1.69	8.45	10.50	38	3.00	2030-1.69
1.70	8.50	10.50	38	3.00	2030-1.70
1.71	8.55	11.50	38	3.00	2030-1.71
1.72	8.60	11.50	38	3.00	2030-1.72
1.73	8.65	11.50	38	3.00	2030-1.73
1.74	8.70	11.50	38	3.00	2030-1.74
1.75	8.75	11.50	38	3.00	2030-1.75
1.76	8.80	11.50	38	3.00	2030-1.76
1.77	8.85	11.50	38	3.00	2030-1.77
1.78	8.90	11.50	38	3.00	2030-1.78
1.79	8.95	11.50	38	3.00	2030-1.79
1.80	9.00	11.50	38	3.00	2030-1.80
1.81	9.05	11.50	38	3.00	2030-1.81
1.82	9.10	11.50	38	3.00	2030-1.82
1.83	9.15	11.50	38	3.00	2030-1.83
1.84	9.20	11.50	38	3.00	2030-1.84
1.85	9.25	11.50	38	3.00	2030-1.85
1.86	9.30	11.50	38	3.00	2030-1.86
1.87	9.35	11.50	38	3.00	2030-1.87
1.88	9.40	11.50	38	3.00	2030-1.88
1.89	9.45	11.50	38	3.00	2030-1.89
1.90	9.50	11.50	38	3.00	2030-1.90
1.91	9.55	12.50	38	3.00	2030-1.91
1.92	9.60	12.50	38	3.00	2030-1.92
1.93	9.65	12.50	38	3.00	2030-1.93
1.94	9.70	12.50	38	3.00	2030-1.94
1.95	9.75	12.50	38	3.00	2030-1.95
1.96	9.80	12.50	38	3.00	2030-1.96
1.97	9.85	12.50	38	3.00	2030-1.97
1.98	9.90	12.50	38	3.00	2030-1.98
1.99	9.95	12.50	38	3.00	2030-1.99
2.00	10.00	12.50	38	3.00	2030-2.00
2.01	10.05	12.50	38	3.00	2030-2.01
2.02	10.10	12.50	38	3.00	2030-2.02
2.03	10.15	12.50	38	3.00	2030-2.03
2.04	10.20	12.50	38	3.00	2030-2.04
2.05	10.25	12.50	38	3.00	2030-2.05
2.06	10.30	12.50	38	3.00	2030-2.06
2.07	10.35	12.50	38	3.00	2030-2.07
2.08	10.40	12.50	38	3.00	2030-2.08
2.09	10.45	12.50	38	3.00	2030-2.09
2.10	10.50	12.50	38	3.00	2030-2.10
2.11	10.55	12.50	38	3.00	2030-2.11

Micro-forets

Microbohrer

Micro drills

Ø 2.12 - Ø 2.99 mm

2030

D1 h6	L2	L3	L1	D2 h6	Art. N°
2.12	10.60	12.50	38	3.00	2030-2.12
2.13	10.65	13.50	38	3.00	2030-2.13
2.14	10.70	13.50	38	3.00	2030-2.14
2.15	10.75	13.50	38	3.00	2030-2.15
2.16	10.80	13.50	38	3.00	2030-2.16
2.17	10.85	13.50	38	3.00	2030-2.17
2.18	10.90	13.50	38	3.00	2030-2.18
2.19	10.95	13.50	38	3.00	2030-2.19
2.20	11.00	13.50	38	3.00	2030-2.20
2.21	11.05	13.50	38	3.00	2030-2.21
2.22	11.10	13.50	38	3.00	2030-2.22
2.23	11.15	13.50	38	3.00	2030-2.23
2.24	11.20	13.50	38	3.00	2030-2.24
2.25	11.25	13.50	38	3.00	2030-2.25
2.26	11.30	13.50	38	3.00	2030-2.26
2.27	11.35	13.50	38	3.00	2030-2.27
2.28	11.40	13.50	38	3.00	2030-2.28
2.29	11.45	13.50	38	3.00	2030-2.29
2.30	11.50	13.50	38	3.00	2030-2.30
2.31	11.55	13.50	38	3.00	2030-2.31
2.32	11.60	13.50	38	3.00	2030-2.32
2.33	11.65	13.50	38	3.00	2030-2.33
2.34	11.70	13.50	38	3.00	2030-2.34
2.35	11.75	13.50	38	3.00	2030-2.35
2.36	11.80	13.50	38	3.00	2030-2.36
2.37	11.85	14.50	38	3.00	2030-2.37
2.38	11.90	14.50	38	3.00	2030-2.38
2.39	11.95	14.50	38	3.00	2030-2.39
2.40	12.00	14.50	38	3.00	2030-2.40
2.41	12.05	14.50	38	3.00	2030-2.41
2.42	12.10	14.50	38	3.00	2030-2.42
2.43	12.15	14.50	38	3.00	2030-2.43
2.44	12.20	14.50	38	3.00	2030-2.44
2.45	12.25	14.50	38	3.00	2030-2.45
2.46	12.30	14.50	38	3.00	2030-2.46
2.47	12.35	14.50	38	3.00	2030-2.47
2.48	12.40	14.50	38	3.00	2030-2.48
2.49	12.45	14.50	38	3.00	2030-2.49
2.50	12.50	14.50	38	3.00	2030-2.50
2.51	12.55	14.50	38	3.00	2030-2.51
2.52	12.60	14.50	38	3.00	2030-2.52
2.53	12.65	14.50	38	3.00	2030-2.53
2.54	12.70	14.50	38	3.00	2030-2.54
2.55	12.75	14.50	38	3.00	2030-2.55
2.56	12.80	14.50	38	3.00	2030-2.56
2.57	12.85	14.50	38	3.00	2030-2.57
2.58	12.90	14.50	38	3.00	2030-2.58
2.59	12.95	14.50	38	3.00	2030-2.59
2.60	13.00	14.50	38	3.00	2030-2.60
2.61	13.05	14.50	38	3.00	2030-2.61
2.62	13.10	14.50	38	3.00	2030-2.62

D1 h6	L2	L3	L1	D2 h6	Art. N°
2.63	13.15	14.50	38	3.00	2030-2.63
2.64	13.20	14.50	38	3.00	2030-2.64
2.65	13.25	14.50	38	3.00	2030-2.65
2.66	13.30	16.50	38	3.00	2030-2.66
2.67	13.35	16.50	38	3.00	2030-2.67
2.68	13.40	16.50	38	3.00	2030-2.68
2.69	13.45	16.50	38	3.00	2030-2.69
2.70	13.50	16.50	38	3.00	2030-2.70
2.71	13.55	16.55	38	3.00	2030-2.71
2.72	13.60	16.50	38	3.00	2030-2.72
2.73	13.65	16.50	38	3.00	2030-2.73
2.74	13.70	16.50	38	3.00	2030-2.74
2.75	13.75	16.50	38	3.00	2030-2.75
2.76	13.80	16.50	38	3.00	2030-2.76
2.77	13.85	16.50	38	3.00	2030-2.77
2.78	13.90	16.50	38	3.00	2030-2.78
2.79	13.95	16.50	38	3.00	2030-2.79
2.80	14.00	16.50	38	3.00	2030-2.80
2.81	14.05	16.50	38	3.00	2030-2.81
2.82	14.10	16.50	38	3.00	2030-2.82
2.83	14.15	16.50	38	3.00	2030-2.83
2.84	14.20	16.50	38	3.00	2030-2.84
2.85	14.25	16.50	38	3.00	2030-2.85
2.86	14.30	16.50	38	3.00	2030-2.86
2.87	14.35	16.50	38	3.00	2030-2.87
2.88	14.40	16.50	38	3.00	2030-2.88
2.89	14.45	16.50	38	3.00	2030-2.89
2.90	14.50	16.50	38	3.00	2030-2.90
2.91	14.55	16.50	38	3.00	2030-2.91
2.92	14.60	16.50	38	3.00	2030-2.92
2.93	14.65	16.50	38	3.00	2030-2.93
2.94	14.70	16.50	38	3.00	2030-2.94
2.95	14.75	16.50	38	3.00	2030-2.95
2.96	14.80	16.50	38	3.00	2030-2.96
2.97	14.85	16.50	38	3.00	2030-2.97
2.98	14.90	16.50	38	3.00	2030-2.98
2.99	14.95	16.50	38	3.00	2030-2.99

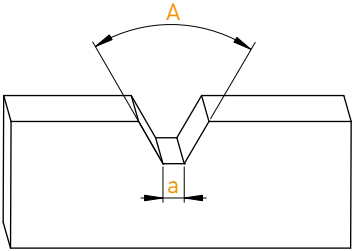
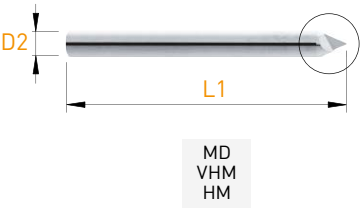
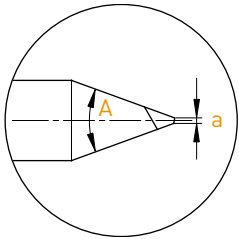
MICRO-Line

Fraises à graver	Paramètres de coupe indicatifs
Gravierfräser	Empfohlene Schnittwerte
Engraving mills	Standard machining data

Matière Werkstoff Material	VC [m/min]	recommended feed rate for rotation speed between 20'000 and 30'000 RPM
Acier Stahl Steel	< 700 N/mm ²	
Acier Stahl Steel	> 700 N/mm ²	
Acier inoxydable Rostfreistahl Stainless steel	70 - 150	
Titane Titan Titanium	70 - 130	
Aluminium	80 - 250	
Cuivre Kupfer Copper	70 - 150	
Laiton Messing Brass	80 - 200	
Or Gold Gold	80 - 200	

Fraises à graver	E300-P
Gravierfräser	
Engraving mills	

NEW



A	a *in steps of 0.01 mm	D2 h ₆	L1	Art. N°
30°	0.02-0.10* / 0.12 / 0.15	3.00	33	E330-P-_[a]
40°	0.02-0.10* / 0.12 / 0.15	3.00	33	E340-P-_[a]
50°	0.02-0.10* / 0.12 / 0.15	3.00	33	E350-P-_[a]
60°	0.02-0.10* / 0.12 / 0.15	3.00	33	E360-P-_[a]
90°	0.02-0.10* / 0.12 / 0.15	3.00	33	E390-P-_[a]

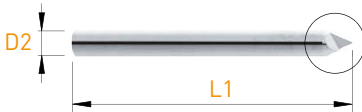
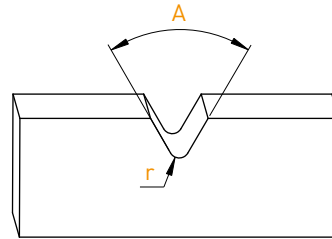
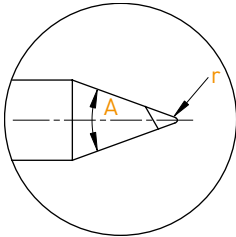
Fraises à graver

Gravierfräser

Engraving mills

E300-R

NEW



MD
VHM
HM

A	r *in steps of 0.01 mm	D2 h6	L1	Art. N°
30°	0.04-0.10*	3.00	33	E330-R-_(r)
40°	0.04-0.10*	3.00	33	E340-R-_(r)
50°	0.04-0.10*	3.00	33	E350-R-_(r)
60°	0.04-0.10*	3.00	33	E360-R-_(r)
90°	0.04-0.10*	3.00	33	E390-R-_(r)

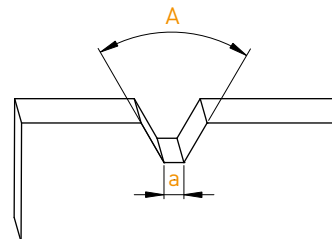
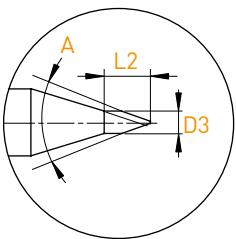
Fraises à graver

Gravierfräser

Engraving mills

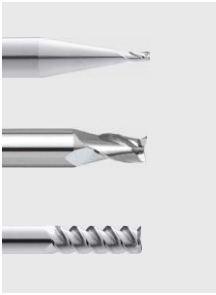
E900-P

NEW



MD
VHM
HM

A	a *in steps of 0.01 mm	D3	L2	D2 h6	L1	Art. N°
30°	0.04-0.10*	0.60	1.8	3.00	33	E930-P-_(a)
40°	0.04-0.10*	0.60	1.8	3.00	33	E940-P-_(a)
50°	0.04-0.10*	1.00	2.0	3.00	33	E950-P-_(a)
60°	0.04-0.10*	1.00	2.0	3.00	33	E960-P-_(a)

		Shank	Z	Spiral	Type	page
		Ø 6 mm	Z = 3	30°	3336-HA	8.29
				30°	3337-HA	8.29
				30°	3330-S	8.30
		D1 = D2	Z = 3	30°	3330	8.30
		D1 = D2	Z = 2	30°	3231	8.31
				30°	3331	8.31
			Z = 3	45°	3341	8.32
				60°	3361	8.32
			Z = 4	30°	3431	8.33
				45°	3441	8.33
		D1 = D2	Z = 2	30°	3238	8.34
			Z = 3	30°	3338	8.34
		Ø 6 mm	Z = 3	30°	3383	8.35
		Ø 10 mm	Z = 10	30°	3830	8.35
		Ø 3 mm	Z = 3	0°	3911	8.36
		D1 = D2	Z = 4	0°	1901/3901	8.36

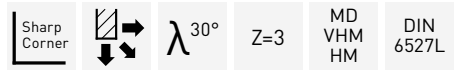
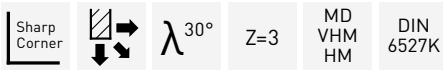
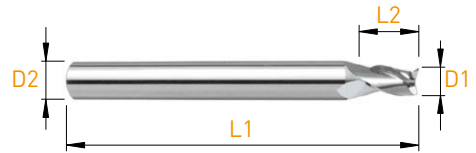
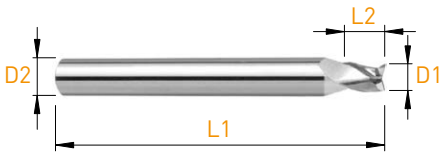
Matière Werkstoff Material		VC (m/min)	fz [mm/z]	
			Ø 2 - 4	Ø 4 - 6
Acier	< 700 N/mm²	60 - 100	0.010 - 0.030	0.015 - 0.040
Stahl				
Steel				
Acier	> 700 N/mm²	40 - 70	0.008 - 0.020	0.010 - 0.030
Stahl				
Steel				
Acier inoxydable	Rostfreistahl	40 - 80	0.010 - 0.030	0.015 - 0.040
Stainless steel				
Titane	Titanium	25 - 50	0.010 - 0.030	0.015 - 0.040
Titan				
Titanium				
Aluminium		100 - 250	0.015 - 0.050	0.020 - 0.060
Cuivre	Kupfer	80 - 160	0.010 - 0.040	0.020 - 0.060
Copper				
Laiton	Messing	100 - 200	0.015 - 0.040	0.030 - 0.070
Brass				

Fraises en bout de finition

Schlicht Schaftfräser

Finishing end mills

3336-HA / 3337-HA



D1 h10	L2	D2 h6	L1	Art. N°
1.50	3.0	6.00	50	3336-HA-1.5
1.80	3.0	6.00	50	3336-HA-1.8
2.00	3.0	6.00	50	3336-HA-2.0
2.50	3.0	6.00	50	3336-HA-2.5
2.80	4.0	6.00	50	3336-HA-2.8
3.00	4.0	6.00	50	3336-HA-3.0
3.50	4.0	6.00	50	3336-HA-3.5
3.80	5.0	6.00	54	3336-HA-3.8
4.00	5.0	6.00	54	3336-HA-4.0
4.50	5.0	6.00	54	3336-HA-4.5
4.80	6.0	6.00	54	3336-HA-4.8
5.00	6.0	6.00	54	3336-HA-5.0
5.50	7.0	6.00	54	3336-HA-5.5
5.80	7.0	6.00	54	3336-HA-5.8
6.00	7.0	6.00	54	3336-HA-6.0

D1 h10	L2	D2 h6	L1	Art. N°
1.50	6.0	6.00	57	3337-HA-1.5
1.80	6.0	6.00	57	3337-HA-1.8
2.00	6.0	6.00	57	3337-HA-2.0
2.50	6.0	6.00	57	3337-HA-2.5
2.80	7.0	6.00	57	3337-HA-2.8
3.00	7.0	6.00	57	3337-HA-3.0
3.50	7.0	6.00	57	3337-HA-3.5
3.80	8.0	6.00	57	3337-HA-3.8
4.00	8.0	6.00	57	3337-HA-4.0
4.50	8.0	6.00	57	3337-HA-4.5
4.80	10.0	6.00	57	3337-HA-4.8
5.00	10.0	6.00	57	3337-HA-5.0
5.50	10.0	6.00	57	3337-HA-5.5
5.80	10.0	6.00	57	3337-HA-5.8
6.00	10.0	6.00	57	3337-HA-6.0

MICRO-Line

Fraises en bout de finition

Schlicht Schaftfräser

Finishing end mills

3330-S / 3330



D1 _{h10}	L2	D2 _{h6}	L1	Art. N°
1.00	3.0	6.00	40	3330-S-1.0
1.50	3.0	6.00	40	3330-S-1.5
2.00	3.0	6.00	40	3330-S-2.0
2.50	3.0	6.00	40	3330-S-2.5
3.00	4.0	6.00	40	3330-S-3.0
3.50	4.0	6.00	40	3330-S-3.5
4.00	5.0	6.00	40	3330-S-4.0
4.50	5.0	6.00	40	3330-S-4.5
5.00	6.0	6.00	40	3330-S-5.0
6.00	7.0	6.00	40	3330-S-6.0



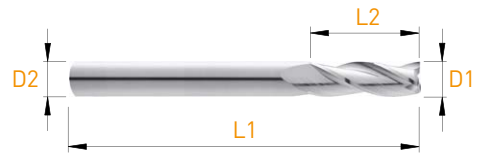
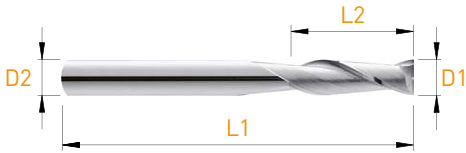
D1 _{e9}	L2	D2 _{h6}	L1	Art. N°
3.00	3.0	3.00	39	3330-3.0
4.00	4.0	4.00	50	3330-4.0
5.00	5.0	5.00	50	3330-5.0
6.00	6.0	6.00	50	3330-6.0
8.00	8.0	8.00	58	3330-8.0
10.00	10.0	10.00	66	3330-10.0
12.00	12.0	12.00	73	3330-12.0
16.00	16.0	16.00	82	3330-16.0
20.00	20.0	20.00	92	3330-20.0

Fraises en bout de finition

Schlicht Schaftfräser

Finishing end mills

3231 / 3331



D1 e9	L2	D2 h6	L1	Art. N°
2.00	8.0	2.00	32	3231-2.0
2.50	8.0	2.50	32	3231-2.5
3.00	12.0	3.00	32	3231-3.0
3.50	12.0	3.50	32	3231-3.5
4.00	12.0	4.00	40	3231-4.0
4.50	14.0	4.50	50	3231-4.5
5.00	14.0	5.00	50	3231-5.0
6.00	16.0	6.00	50	3231-6.0



D1 e9	L2	D2 h6	L1	Art. N°
2.00	8.0	2.00	32	3331-2.0
2.50	8.0	2.50	32	3331-2.5
3.00	12.0	3.00	32	3331-3.0
3.50	12.0	3.50	32	3331-3.5
4.00	12.0	4.00	40	3331-4.0
4.50	14.0	4.50	50	3331-4.5
5.00	14.0	5.00	50	3331-5.0
6.00	16.0	6.00	50	3331-6.0

MICRO-Line

Fraises en bout de finition

Schlicht Schaftfräser

Finishing end mills

3341 / 3361



D1 e9	L2	D2 h6	L1	Art. N°
2.00	8.0	2.00	32	3341-2.0
2.50	8.0	2.50	32	3341-2.5
3.00	12.0	3.00	32	3341-3.0
3.50	12.0	3.50	32	3341-3.5
4.00	12.0	4.00	40	3341-4.0
4.50	14.0	4.50	50	3341-4.5
5.00	14.0	5.00	50	3341-5.0
6.00	16.0	6.00	50	3341-6.0



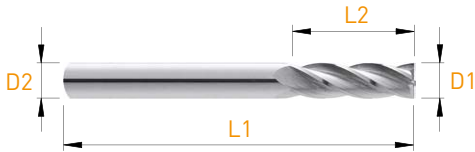
D1 e9	L2	D2 h6	L1	Art. N°
2.00	8.0	2.00	32	3361-2.0
2.50	8.0	2.50	32	3361-2.5
3.00	12.0	3.00	32	3361-3.0
3.50	12.0	3.50	32	3361-3.5
4.00	12.0	4.00	40	3361-4.0
4.50	14.0	4.50	50	3361-4.5
5.00	14.0	5.00	50	3361-5.0
6.00	16.0	6.00	50	3361-6.0

Fraises en bout de finition

Schlicht Schaftfräser

Finishing end mills

3431 / 3441



D1 e9	L2	D2 h6	L1	Art. N°
2.00	8.0	2.00	32	3431-2.0
2.50	8.0	2.50	32	3431-2.5
3.00	12.0	3.00	32	3431-3.0
3.50	12.0	3.50	32	3431-3.5
4.00	12.0	4.00	40	3431-4.0
4.50	14.0	4.50	50	3431-4.5
5.00	14.0	5.00	50	3431-5.0
6.00	16.0	6.00	50	3431-6.0



D1 e9	L2	D2 h6	L1	Art. N°
2.00	8.0	2.00	32	3441-2.0
2.50	8.0	2.50	32	3441-2.5
3.00	12.0	3.00	32	3441-3.0
3.50	12.0	3.50	32	3441-3.5
4.00	12.0	4.00	40	3441-4.0
4.50	14.0	4.50	50	3441-4.5
5.00	14.0	5.00	50	3441-5.0
6.00	16.0	6.00	50	3441-6.0

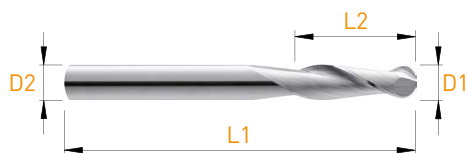
MICRO-Line

Fraises en bout hémisphérique

Kugelschaftfräser

Ball nose end mills

3238 / 3338



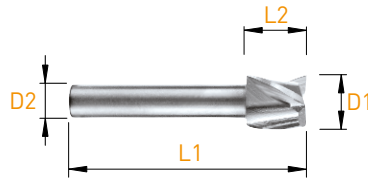
D1 e9	L2	D2 h6	L1	Art. N°
2.00	8.0	2.00	32	3238-2.0
2.50	8.0	2.50	32	3238-2.5
3.00	12.0	3.00	32	3238-3.0
3.50	12.0	3.50	32	3238-3.5
4.00	12.0	4.00	40	3238-4.0
4.50	14.0	4.50	50	3238-4.5
5.00	14.0	5.00	50	3238-5.0
6.00	16.0	6.00	50	3238-6.0



D1 e9	L2	D2 h6	L1	Art. N°
2.00	8.0	2.00	32	3338-2.0
2.50	8.0	2.50	32	3338-2.5
3.00	12.0	3.00	32	3338-3.0
3.50	12.0	3.50	32	3338-3.5
4.00	12.0	4.00	40	3338-4.0
4.50	14.0	4.50	50	3338-4.5
5.00	14.0	5.00	50	3338-5.0
6.00	16.0	6.00	50	3338-6.0

Fraises en bout pour usinage en bout plat
Schaftfräser für flache Frontbearbeitung
End mills for flat front machining

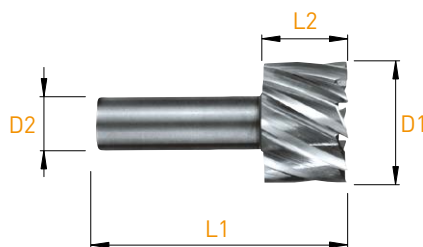
3383



D1 h10	L2	D2 h6	L1	Art. N°
8.00	8.0	6.00	40	3383-8.0
10.00	10.0	6.00	40	3383-10.0
12.00	12.0	6.00	40	3383-12.0

Fraises en bout avec queue réduite
Schaftfräser mit reduziertem Schaft
End mills with reduced shank

3830



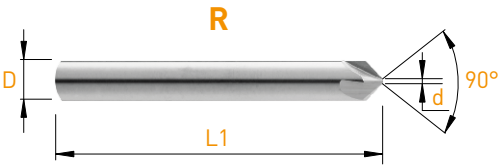
D1 h10	L2	D2 h6	L1	Art. N°
16.3	15.0	10.00	45	3831
20.3	15.0	10.00	45	3833



Z=3

MD
VHM
HM

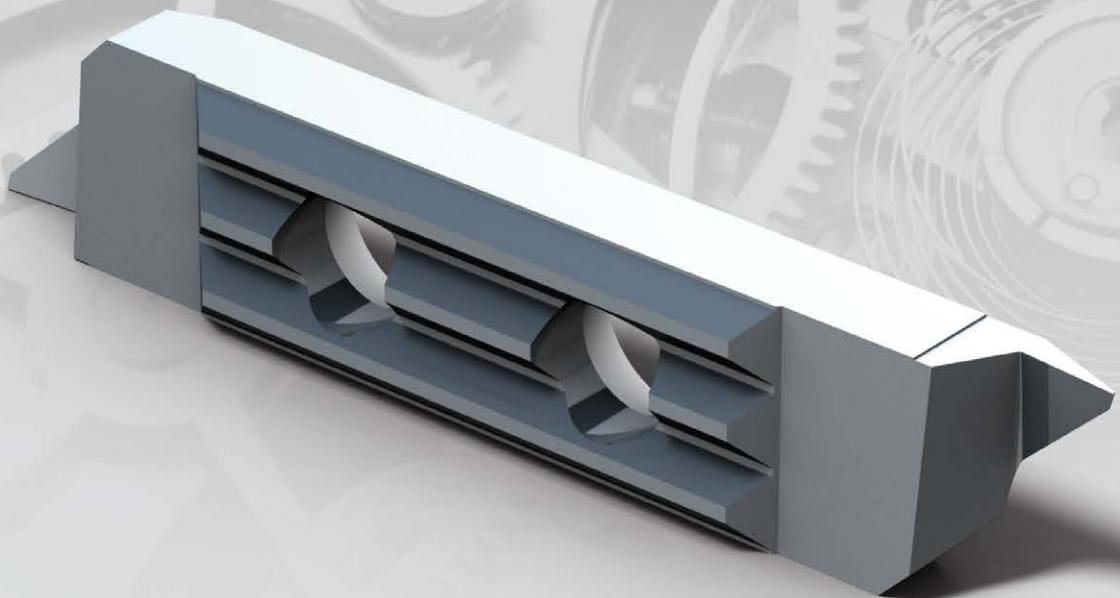
D1	L2	D2 h6	L1	d	Art. N°
0.50	3.0	3.00	39	0.1	3911-0.5
1.00	3.0	3.00	39	0.1	3911-1.0
1.50	4.5	3.00	39	0.1	3911-1.5
2.00	6.0	3.00	39	0.1	3911-2.0
2.50	7.5	3.00	39	0.1	3911-2.5
3.00	-	3.00	39	0.1	3911-3.0



Z=4			MD VHM HM			
					L	R
D h6	d	L1			Art. N°	Art. N°
3.00	0.3	39			1901-3.0	3901-3.0
6.00	0.7	50			1901-6.0	3901-6.0
8.00	1.2	58			1901-8.0	3901-8.0

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