PX TOOLS
a company of PX GROUP

De par ses 65 ans d'expérience, dont plus de 25 au sein du groupe, PX TOOLS s'est fait une réputation parmi les outilleurs de précision. Couvrant une gamme d'outils standard aussi large que précise, la maison sait aussi et surtout répondre aux besoins en outillage sur mesure d'une clientèle plus qu'exigeante. Basés dans le berceau micromécanique de la Chaux-de-Fonds, la quarantaine de collaborateurs techniciens ou experts de la société œuvrent au quotidien sur des machines allant de la traditionnelle manuelle à la pointe de la commande numérique.

Les outils de coupe et de forme n'ont plus de secret pour cette société qui fournit déjà des secteurs variés et n'a de cesse d'élargir ses compétences au gré des exigences.
Pour le médical, l'horlogerie, le décolletage, la mécanique générale, l'électronique, le moule, la lunetterie, le dentaire, l'automobile et l'aéronautique. Du forêt à la fraise en passant par la pièce d'usure, PX TOOLS répondra à toutes les demandes dans les plus brefs délais.

PX TOOLS
a company of PX GROUP

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TOURNAGE

PERÇAGE - DRILLING - BOHREN

CONDITIONS DE COUPE - CUTTING CONDITIONS - SCHNITTDATEN

Matière	Acier non allié / faiblement allié < 600 N/mm2 Fonte grise		Aciers et fontes fortement alliés 700 – 1500 N/mm2 Acier inoxydable < 1500 N/mm2		Alliages de cuivre / Or / Argent		Aluminium et ses alliages / Plastique		Alliages spéciaux, Inconel, Nimonic, Hastelloy acier inoxydable réfractaire		Titane	
Werkstoff	Unlegierte/niedrig legierte Stähle < 600 N/mm2 Gusseisen		Hochlegierte Stähle 700 – 1500 N/mm2 / Rostfreie Stähle < 1500 N/mm2		Kupfer-Kupferlegierung / Gold / Silber		Aluminium-Aluminiumlegierung / Kunststoff		Sonderlegierungen Inconel, Nimonic, Hastelloy warmfeste rostfreie Stähle		Titan, Titanlegierung	
Material	Unalloyed steel / low alloyed steel < 600 N/mm2 Grey cast iron		High alloyed steel 700 – 1500 N/mm2 Heat resisting stainless steel < 1500 N/mm2		Copper alloy Gold / Silver		Aluminium alloy / Plastic		Special alloys Inconel, Nimonic, Hastelloy heat resisting stainless steel		Titanium	
Ø D1 (mm)	Vc (m/min)	fz (mm)	Vc (m/min)	fz (mm)	Vc (m/min)	fz (mm)	Vc (m/min)	fz (mm)	Vc (m/min)	fz (mm)	Vc (m/min)	fz (mm)
< 1		0.003 - 0.018		0.002 - 0.014		0.004 - 0.025		0.004 - 0.025		0.002 - 0.014		0.002 - 0.006
1 à 1.5		0.015 - 0.03		0.013 - 0.023		0.015 - 0.03		0.015 - 0.03		0.010 - 0.022		0.003 - 0.008
1.5 à 2		0.025 - 0.04		0.02 - 0.03		0.025 - 0.04		0.025 - 0.04		0.02 - 0.03		0.004 - 0.008
2 à 2.5		0.03 - 0.05		0.03 - 0.04		0.03 - 0.05		0.03 - 0.05		0.025 - 0.04		0.07 - 0.015
2.5 à 3	**50 - 80**	0.05 - 0.10	**35 - 50**	0.04 - 0.08	**40 - 70**	0.05 - 0.10	**60 - 130**	0.05 - 0.10	**10 - 30**	0.03 - 0.08	**30 - 50**	0.013 - 0.020
3.5 à 4		0.08 - 0.14		0.07 - 0.11		0.08- 0.14		0.08- 0.14		0.06- 0.11		0.02- 0.04
4 à 4.5		0.11 - 0.20		0.09 - 0.15		0.11 - 0.20		0.11 - 0.20		0.9 - 0.15		0.04 - 0.08
4.5 à 5		0.16 - 0.28		0.13 - 0.21		0.16 - 0.28		0.16 - 0.28		0.13 - 0.21		0.06 - 0.15
5 à 5.5		0.22 - 0.32		0.18 - 0.24		0.22 - 0.32		0.22 - 0.32		0.18 - 0.24		0.13 - 0.21
5.5 à 6		0.26 - 0.40		0.21 - 0.30		0.26 - 0.40		0.26 - 0.40		0.21 - 0.30		0.18 - 0.24

N = Vitesse de rotation en tr/min
Vc = Vitesse de coupe en m/min
p = 3,14
Ø = Diam. de la fraise en mm

N = Rotational speed in tr/min
Vc = Cutting speed in m/min
p = 3,14
Ø = Diameter of the milling cutter in mm

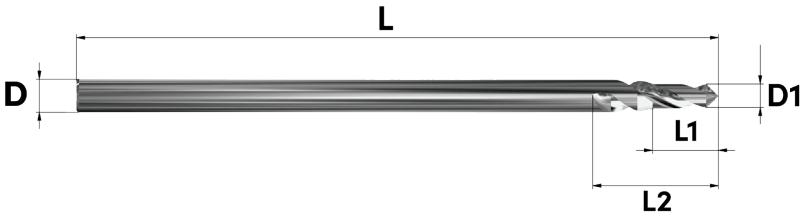
N = Dre in tr/min
Vc = Cutting speed in m/min
p = 3,14
Ø = Diameter of the milling cutter in mm

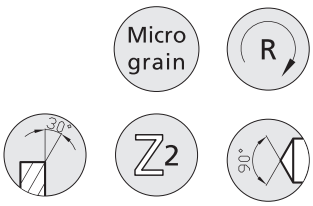
Centreurs NC 90°

NC center drills

NC Anbohrer

1100





Cu CuZn | Acier <600 N/mm2 | Al AlSi<10% | Acier <1200 N/mm2 | Ti | Acier <1600 N/mm2 | PE | Inox <700 N/mm2 | Or, Ag | Inox <1500 N/mm2 | GG | HRC <40

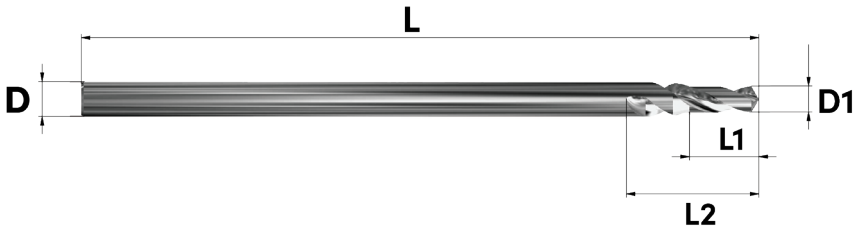
Réf.	D1	D	L	L1	L2
1100-0050	0.50	2.00	39.00	1.50	8.00
1100-0100	1.00	2.00	39.00	3.00	8.00
1100-0150	1.50	2.00	39.00	4.00	8.00
1100-0200	2.00	2.00	39.00	-	8.00
1100-0250	2.50	2.50	39.00	-	8.00
1100-0300	3.00	3.00	39.00	-	10.00
1100-0400	4.00	4.00	50.00	-	12.00
1100-0500	5.00	5.00	50.00	-	15.00
1100-0600	6.00	6.00	57.00	-	16.00

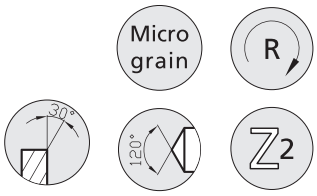
Centreurs NC 120°

NC center drills

NC Anbohrer

1101



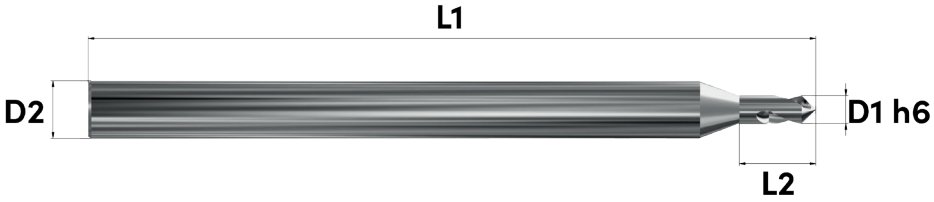


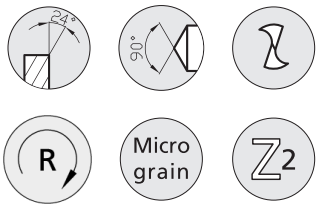
GG | HRC <40 | Cu CuZn | Acier <600 N/mm2 | Al AlSi<10% | Acier <1200 N/mm2 | Ti | Acier <1600 N/mm2 | PE | Inox <700 N/mm2 | Or, Ag | Inox <1500 N/mm2

Réf.	D1	D	L	L1	L2
1100-0050	0.50	2.00	39.00	1.50	8.00
1100-0100	1.00	2.00	39.00	3.00	8.00
1100-0150	1.50	2.00	39.00	4.00	8.00
1100-0200	2.00	2.00	39.00	-	8.00
1100-0250	2.50	2.50	39.00	-	8.00
1100-0300	3.00	3.00	39.00	-	10.00
1100-0400	4.00	4.00	50.00	-	12.00
1100-0500	5.00	5.00	50.00	-	15.00
1100-0600	6.00	6.00	57.00	-	16.00

11119

Forets de sertissage
Drills to preset precious stones
Steinsitzbohrer





Réf.	D1 h6	D2 h5	L1	L2
11119-0050	0.50	3.00	38.00	2.75
11119-0051	0.51	3.00	38.00	2.75
11119-0052	0.52	3.00	38.00	2.75
11119-0053	0.53	3.00	38.00	2.75
11119-0054	0.54	3.00	38.00	2.75
11119-0055	0.55	3.00	38.00	2.75
11119-0056	0.56	3.00	38.00	2.75
11119-0057	0.57	3.00	38.00	2.75
11119-0058	0.58	3.00	38.00	2.75
11119-0059	0.59	3.00	38.00	2.75
11119-0060	0.60	3.00	38.00	2.80
11119-0061	0.61	3.00	38.00	2.80
11119-0062	0.62	3.00	38.00	2.80
11119-0063	0.63	3.00	38.00	2.80
11119-0064	0.64	3.00	38.00	2.80
11119-0065	0.65	3.00	38.00	2.80
11119-0066	0.66	3.00	38.00	2.80
11119-0067	0.67	3.00	38.00	2.80
11119-0068	0.68	3.00	38.00	2.80
11119-0069	0.69	3.00	38.00	2.80
11119-0070	0.70	3.00	38.00	2.80
11119-0071	0.71	3.00	38.00	2.80
11119-0072	0.72	3.00	38.00	2.80
11119-0073	0.73	3.00	38.00	2.80
11119-0074	0.74	3.00	38.00	2.80
11119-0075	0.75	3.00	38.00	2.80
11119-0076	0.76	3.00	38.00	2.80
11119-0077	0.77	3.00	38.00	2.80
11119-0078	0.78	3.00	38.00	2.80
11119-0079	0.79	3.00	38.00	2.80
11119-0080	0.80	3.00	38.00	2.90
11119-0081	0.81	3.00	38.00	2.90
11119-0082	0.82	3.00	38.00	2.90
11119-0083	0.83	3.00	38.00	2.90
11119-0084	0.84	3.00	38.00	2.90
11119-0085	0.85	3.00	38.00	2.90

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Forets de sertissage

Drills to preset precious stones

Steinsitzbohrer

11119

Réf.	D1 h6	D2 h5	L1	L2
11119-0086	0.86	3.00	38.00	2.90
11119-0087	0.87	3.00	38.00	2.90
11119-0088	0.88	3.00	38.00	2.90
11119-0089	0.89	3.00	38.00	2.90
11119-0090	0.90	3.00	38.00	2.90
11119-0091	0.91	3.00	38.00	2.90
11119-0092	0.92	3.00	38.00	2.90
11119-0093	0.93	3.00	38.00	2.90
11119-0094	0.94	3.00	38.00	2.90
11119-0095	0.95	3.00	38.00	2.90
11119-0096	0.96	3.00	38.00	2.90
11119-0097	0.97	3.00	38.00	2.90
11119-0098	0.98	3.00	38.00	2.90
11119-0099	0.99	3.00	38.00	2.90
11119-0100	1.00	3.00	38.00	3.00
11119-0101	1.01	3.00	38.00	3.00
11119-0102	1.02	3.00	38.00	3.00
11119-0103	1.03	3.00	38.00	3.00
11119-0104	1.04	3.00	38.00	3.00
11119-0105	1.05	3.00	38.00	3.00
11119-0106	1.06	3.00	38.00	3.00
11119-0107	1.07	3.00	38.00	3.00
11119-0108	1.08	3.00	38.00	3.00
11119-0109	1.09	3.00	38.00	3.00
11119-0110	1.10	3.00	38.00	3.00
11119-0111	1.11	3.00	38.00	3.00
11119-0112	1.12	3.00	38.00	3.00
11119-0113	1.13	3.00	38.00	3.00
11119-0114	1.14	3.00	38.00	3.00
11119-0115	1.15	3.00	38.00	3.00
11119-0116	1.16	3.00	38.00	3.00
11119-0117	1.17	3.00	38.00	3.00
11119-0118	1.18	3.00	38.00	3.00
11119-0119	1.19	3.00	38.00	3.00
11119-0120	1.20	3.00	38.00	3.10
11119-0121	1.21	3.00	38.00	3.10
11119-0122	1.22	3.00	38.00	3.10
11119-0123	1.23	3.00	38.00	3.10
11119-0124	1.24	3.00	38.00	3.10
11119-0125	1.25	3.00	38.00	3.10
11119-0126	1.26	3.00	38.00	3.10
11119-0127	1.27	3.00	38.00	3.10
11119-0128	1.28	3.00	38.00	3.10
11119-0129	1.29	3.00	38.00	3.10

11119

Forets de sertissage
Drills to preset precious stones
Steinsitzbohrer

Réf.	D1 h6	D2 h5	L1	L2
11119-0130	1.30	3.00	38.00	3.10
11119-0131	1.31	3.00	38.00	3.10
11119-0132	1.32	3.00	38.00	3.10
11119-0133	1.33	3.00	38.00	3.10
11119-0134	1.34	3.00	38.00	3.10
11119-0135	1.35	3.00	38.00	3.10
11119-0136	1.36	3.00	38.00	3.10
11119-0137	1.37	3.00	38.00	3.10
11119-0138	1.38	3.00	38.00	3.10
11119-0139	1.39	3.00	38.00	3.10
11119-0140	1.40	3.00	38.00	3.20
11119-0141	1.41	3.00	38.00	3.20
11119-0142	1.42	3.00	38.00	3.20
11119-0143	1.43	3.00	38.00	3.20
11119-0144	1.44	3.00	38.00	3.20
11119-0145	1.45	3.00	38.00	3.20
11119-0146	1.46	3.00	38.00	3.20
11119-0147	1.47	3.00	38.00	3.20
11119-0148	1.48	3.00	38.00	3.20
11119-0149	1.49	3.00	38.00	3.20
11119-0150	1.50	3.00	38.00	3.20
11119-0151	1.51	3.00	38.00	3.20
11119-0152	1.52	3.00	38.00	3.20
11119-0153	1.53	3.00	38.00	3.20
11119-0154	1.54	3.00	38.00	3.20
11119-0155	1.55	3.00	38.00	3.20
11119-0156	1.56	3.00	38.00	3.20
11119-0157	1.57	3.00	38.00	3.20
11119-0158	1.58	3.00	38.00	3.20
11119-0159	1.59	3.00	38.00	3.20
11119-0160	1.60	3.00	38.00	3.30
11119-0161	1.61	3.00	38.00	3.30
11119-0162	1.62	3.00	38.00	3.30
11119-0163	1.63	3.00	38.00	3.30
11119-0164	1.64	3.00	38.00	3.30
11119-0165	1.65	3.00	38.00	3.30
11119-0166	1.66	3.00	38.00	3.30
11119-0167	1.67	3.00	38.00	3.30
11119-0168	1.68	3.00	38.00	3.30
11119-0169	1.69	3.00	38.00	3.30
11119-0170	1.70	3.00	38.00	3.30
11119-0171	1.71	3.00	38.00	3.30
11119-0172	1.72	3.00	38.00	3.30
11119-0173	1.73	3.00	38.00	3.30

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Forets de sertissage

Drills to preset precious stones

Steinsitzbohrer

11119

Réf.	D1 h6	D2 h5	L1	L2
11119-0174	1.74	3.00	38.00	3.30
11119-0175	1.75	3.00	38.00	3.30
11119-0176	1.76	3.00	38.00	3.30
11119-0177	1.77	3.00	38.00	3.30
11119-0178	1.78	3.00	38.00	3.30
11119-0179	1.79	3.00	38.00	3.30
11119-0180	1.80	3.00	38.00	3.40
11119-0181	1.81	3.00	38.00	3.40
11119-0182	1.82	3.00	38.00	3.40
11119-0183	1.83	3.00	38.00	3.40
11119-0184	1.84	3.00	38.00	3.40
11119-0185	1.85	3.00	38.00	3.40
11119-0186	1.86	3.00	38.00	3.40
11119-0187	1.87	3.00	38.00	3.40
11119-0188	1.88	3.00	38.00	3.40
11119-0189	1.89	3.00	38.00	3.40
11119-0190	1.90	3.00	38.00	3.40
11119-0191	1.91	3.00	38.00	3.40
11119-0192	1.92	3.00	38.00	3.40
11119-0193	1.93	3.00	38.00	3.40
11119-0194	1.94	3.00	38.00	3.40
11119-0195	1.95	3.00	38.00	3.40
11119-0196	1.96	3.00	38.00	3.40
11119-0197	1.97	3.00	38.00	3.40
11119-0198	1.98	3.00	38.00	3.40
11119-0199	1.99	3.00	38.00	3.40
11119-0200	2.00	3.00	38.00	3.50
11119-0201	2.01	3.00	38.00	3.50
11119-0202	2.02	3.00	38.00	3.50
11119-0203	2.03	3.00	38.00	3.50
11119-0204	2.04	3.00	38.00	3.50
11119-0205	2.05	3.00	38.00	3.50
11119-0206	2.06	3.00	38.00	3.50
11119-0207	2.07	3.00	38.00	3.50
11119-0208	2.08	3.00	38.00	3.50
11119-0209	2.09	3.00	38.00	3.50
11119-0210	2.10	3.00	38.00	3.50
11119-0211	2.11	3.00	38.00	3.50
11119-0212	2.12	3.00	38.00	3.50
11119-0213	2.13	3.00	38.00	3.50
11119-0214	2.14	3.00	38.00	3.50
11119-0215	2.15	3.00	38.00	3.50
11119-0216	2.16	3.00	38.00	3.50

11119

Forets de sertissage
Drills to preset precious stones
Steinsitzbohrer

Réf.	D1 h6	D2 h5	L1	L2
11119-0217	2.17	3.00	38.00	3.50
11119-0218	2.18	3.00	38.00	3.50
11119-0219	2.19	3.00	38.00	3.50
11119-0220	2.20	3.00	38.00	3.50
11119-0221	2.21	3.00	38.00	3.60
11119-0222	2.22	3.00	38.00	3.60
11119-0223	2.23	3.00	38.00	3.60
11119-0224	2.24	3.00	38.00	3.60
11119-0225	2.25	3.00	38.00	3.60
11119-0226	2.26	3.00	38.00	3.60
11119-0227	2.27	3.00	38.00	3.60
11119-0228	2.28	3.00	38.00	3.60
11119-0229	2.29	3.00	38.00	3.60
11119-0230	2.30	3.00	38.00	3.60
11119-0235	2.35	3.00	38.00	3.60
11119-0240	2.40	3.00	38.00	3.70
11119-0245	2.45	3.00	38.00	3.70
11119-0250	2.50	3.00	38.00	3.70
11119-0270	2.70	3.00	38.00	3.80
11119-0290	2.90	3.00	38.00	3.90
11119-0300	3.00	3.00	38.00	4.00

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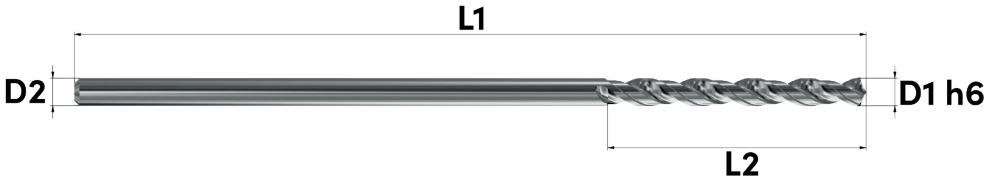
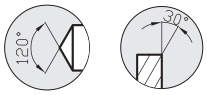
Forets hélicoïdaux

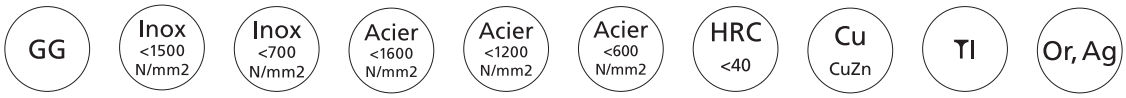
Twist drills

Spiralbohrer

1114







Réf.	D1 h6	D2 h5	L1	L2
1114-0050-R	0.50	0.50	30.00	5.00
1114-0055-R	0.55	0.55	30.00	5.00
1114-0060-R	0.60	0.60	30.00	5.00
1114-0065-R	0.65	0.65	30.00	6.00
1114-0070-R	0.70	0.70	30.00	6.00
1114-0075-R	0.75	0.75	30.00	8.00
1114-0080-R	0.80	0.80	30.00	8.00
1114-0085-R	0.85	0.85	30.00	9.00
1114-0090-R	0.90	0.90	30.00	9.00
1114-0095-R	0.95	0.95	30.00	10.00
1114-0100-R	1.00	1.00	30.00	10.00
1114-0105-R	1.05	1.05	30.00	10.00
1114-0110-R	1.10	1.10	30.00	10.00
1114-0115-R	1.15	1.15	30.00	12.00
1114-0120-R	1.20	1.20	30.00	12.00
1114-0125-R	1.25	1.25	30.00	12.00
1114-0130-R	1.30	1.30	30.00	12.00
1114-0135-R	1.35	1.35	30.00	12.00
1114-0140-R	1.40	1.40	30.00	12.00
1114-0145-R	1.45	1.45	30.00	12.00
1114-0150-R	1.50	1.50	30.00	12.00
1114-0155-R	1.55	1.55	40.00	16.00
1114-0160-R	1.60	1.60	40.00	16.00
1114-0165-R	1.65	1.65	40.00	16.00
1114-0170-R	1.70	1.70	40.00	16.00
1114-0175-R	1.75	1.75	40.00	16.00
1114-0180-R	1.80	1.80	40.00	16.00
1114-0185-R	1.85	1.85	40.00	16.00
1114-0190-R	1.90	1.90	40.00	16.00
1114-0195-R	1.95	1.95	40.00	16.00
1114-0200-R	2.00	2.00	40.00	18.00
1114-0205-R	2.05	2.05	40.00	18.00
1114-0210-R	2.10	2.10	40.00	18.00
1114-0215-R	2.15	2.15	40.00	18.00
1114-0220-R	2.20	2.20	40.00	18.00
1114-0225-R	2.25	2.25	40.00	18.00
1114-0230-R	2.30	2.30	40.00	18.00

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Forets hélicoïdaux
Twist drills
Spiralbohrer

Réf.	D1 h6	D2 h5	L1	L2
1114-0235-R	2.35	2.35	40.00	18.00
1114-0240-R	2.40	2.40	40.00	18.00
1114-0245-R	2.45	2.45	40.00	18.00
1114-0250-R	2.50	2.50	40.00	18.00
1114-0255-R	2.55	2.55	45.00	18.00
1114-0260-R	2.60	2.60	45.00	18.00
1114-0265-R	2.65	2.65	45.00	18.00
1114-0270-R	2.70	2.70	45.00	18.00
1114-0275-R	2.75	2.75	45.00	18.00
1114-0280-R	2.80	2.80	45.00	18.00
1114-0285-R	2.85	2.85	45.00	18.00
1114-0290-R	2.90	2.90	45.00	18.00
1114-0295-R	2.95	2.95	45.00	18.00
1114-0300-R	3.00	3.00	45.00	18.00
1114-0310-R	3.10	3.10	50.00	20.00
1114-0320-R	3.20	3.20	50.00	20.00
1114-0330-R	3.30	3.30	50.00	20.00
1114-0340-R	3.40	3.40	50.00	20.00
1114-0350-R	3.50	3.50	50.00	20.00
1114-0360-R	3.60	3.60	50.00	20.00
1114-0370-R	3.70	3.70	50.00	20.00
1114-0380-R	3.80	3.80	50.00	20.00
1114-0390-R	3.90	3.90	50.00	20.00
1114-0400-R	4.00	4.00	50.00	20.00
1114-0410-R	4.10	4.10	50.00	25.00
1114-0420-R	4.20	4.20	50.00	25.00
1114-0430-R	4.30	4.30	50.00	25.00
1114-0440-R	4.40	4.40	50.00	25.00
1114-0450-R	4.50	4.50	50.00	25.00
1114-0460-R	4.60	4.60	50.00	25.00
1114-0470-R	4.70	4.70	50.00	25.00
1114-0480-R	4.80	4.80	50.00	25.00
1114-0490-R	4.90	4.90	50.00	25.00
1114-0500-R	5.00	5.00	50.00	25.00
1114-0510-R	5.10	5.10	50.00	25.00
1114-0520-R	5.20	5.20	50.00	25.00
1114-0530-R	5.30	5.30	50.00	25.00
1114-0540-R	5.40	5.40	50.00	25.00
1114-0550-R	5.50	5.50	50.00	25.00
1114-0560-R	5.60	5.60	50.00	25.00
1114-0570-R	5.70	5.70	50.00	25.00
1114-0580-R	5.80	5.80	50.00	25.00
1114-0590-R	5.90	5.90	50.00	25.00
1114-0600-R	6.00	6.00	50.00	25.00

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Micro-forets hélicoïdaux

Micro twist drills

Mikro-Spiralbohrer

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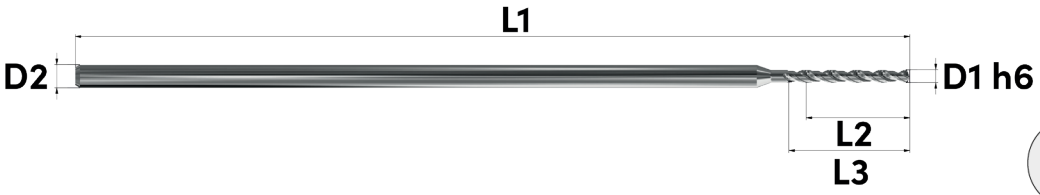

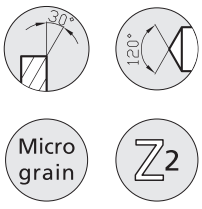

Réf.	D1 h6	D2 h5	L1	L2	L3
1116-0014-R	0.14	1.50	30.00	1.00	1.00
1116-0015-R	0.15	1.50	30.00	1.00	1.00
1116-0016-R	0.16	1.50	30.00	1.00	1.40
1116-0017-R	0.17	1.50	30.00	1.00	1.40
1116-0018-R	0.18	1.50	30.00	1.00	1.40
1116-0019-R	0.19	1.50	30.00	1.00	1.40
1116-0020-R	0.20	1.50	30.00	1.00	1.80
1116-0021-R	0.21	1.50	30.00	1.00	1.80
1116-0022-R	0.22	1.50	30.00	1.00	1.80
1116-0023-R	0.23	1.50	30.00	1.00	1.80
1116-0024-R	0.24	1.50	30.00	1.00	1.80
1116-0025-R	0.25	1.50	30.00	1.20	2.20
1116-0026-R	0.26	1.50	30.00	1.20	2.20
1116-0027-R	0.27	1.50	30.00	1.20	2.20
1116-0028-R	0.28	1.50	30.00	1.20	2.20
1116-0029-R	0.29	1.50	30.00	1.20	2.20
1116-0030-R	0.30	1.50	30.00	1.60	2.20
1116-0031-R	0.31	1.50	30.00	1.60	2.80
1116-0032-R	0.32	1.50	30.00	1.60	2.80
1116-0033-R	0.33	1.50	30.00	1.60	2.80
1116-0034-R	0.34	1.50	30.00	1.60	2.80
1116-0035-R	0.35	1.50	30.00	1.60	2.80
1116-0036-R	0.36	1.50	30.00	1.60	2.80
1116-0037-R	0.37	1.50	30.00	1.60	2.80
1116-0038-R	0.38	1.50	30.00	1.60	2.80
1116-0039-R	0.39	1.50	30.00	1.60	3.60
1116-0040-R	0.40	1.50	30.00	2.00	3.60
1116-0041-R	0.41	1.50	30.00	2.00	3.60
1116-0042-R	0.42	1.50	30.00	2.00	3.60
1116-0043-R	0.43	1.50	30.00	2.00	3.60
1116-0044-R	0.44	1.50	30.00	2.00	3.60
1116-0045-R	0.45	1.50	30.00	2.00	3.60
1116-0046-R	0.46	1.50	30.00	2.00	3.60
1116-0047-R	0.47	1.50	30.00	2.00	3.60
1116-0048-R	0.48	1.50	30.00	2.00	3.60

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Micro-forets hélicoïdaux
Micro twist drills
Mikro-Spiralbohrer

Réf.	D1 h6	D2 h5	L1	L2	L3
1116-0049-R	0.49	1.50	30	2.00	4.00
1116-0050-R	0.50	1.50	30	3.00	4.00
1116-0051-R	0.51	1.50	30	3.00	4.00
1116-0052-R	0.52	1.50	30	3.00	4.00
1116-0053-R	0.53	1.50	30	3.00	4.00
1116-0054-R	0.54	1.50	30	3.00	4.50
1116-0055-R	0.55	1.50	30	3.00	4.50
1116-0056-R	0.56	1.50	30	3.00	4.50
1116-0057-R	0.57	1.50	30	3.00	4.50
1116-0058-R	0.58	1.50	30	3.00	4.50
1116-0059-R	0.59	1.50	30	3.00	4.50
1116-0060-R	0.60	1.50	30	4.00	4.50
1116-0061-R	0.61	1.50	30	4.00	5.00
1116-0062-R	0.62	1.50	30	4.00	5.00
1116-0063-R	0.63	1.50	30	4.00	5.00
1116-0064-R	0.64	1.50	30	4.00	5.00
1116-0065-R	0.65	1.50	30	4.00	5.00
1116-0066-R	0.66	1.50	30	4.00	5.00
1116-0067-R	0.67	1.50	30	4.00	5.00
1116-0068-R	0.68	1.50	30	4.00	5.60
1116-0069-R	0.69	1.50	30	4.00	5.60
1116-0070-R	0.70	1.50	30	5.00	5.60
1116-0071-R	0.71	1.50	30	5.00	5.60
1116-0072-R	0.72	1.50	30	5.00	5.60
1116-0073-R	0.73	1.50	30	5.00	5.60
1116-0074-R	0.74	1.50	30	5.00	5.60
1116-0075-R	0.75	1.50	30	5.00	5.60
1116-0076-R	0.76	1.50	30	5.00	6.30
1116-0077-R	0.77	1.50	30	5.00	6.30
1116-0078-R	0.78	1.50	30	5.00	6.30
1116-0079-R	0.79	1.50	30	5.00	6.30
1116-0080-R	0.80	1.50	30	5.00	6.30
1116-0081-R	0.81	1.50	30	5.00	6.30
1116-0082-R	0.82	1.50	30	5.00	6.30
1116-0083-R	0.83	1.50	30	5.00	6.30
1116-0084-R	0.84	1.50	30	5.00	6.30
1116-0085-R	0.85	1.50	30	5.00	6.30
1116-0086-R	0.86	1.50	30	5.00	7.10
1116-0087-R	0.87	1.50	30	5.00	7.10
1116-0088-R	0.88	1.50	30	5.00	7.10
1116-0089-R	0.89	1.50	30	5.00	7.10
1116-0090-R	0.90	1.50	30	5.50	7.10
1116-0091-R	0.91	1.50	30	5.50	7.10

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Réf.	D1 h6	D2 h5	L1	L2	L3
1116-0092-R	0.92	1.50	30	5.50	7.10
1116-0093-R	0.93	1.50	30	5.50	7.10
1116-0094-R	0.94	1.50	30	5.50	7.10
1116-0095-R	0.95	1.50	30	5.50	7.10
1116-0096-R	0.96	1.50	30	5.50	8.00
1116-0097-R	0.97	1.50	30	5.50	8.00
1116-0098-R	0.98	1.50	30	5.50	8.00
1116-0099-R	0.99	1.50	30	5.50	8.00
1116-0100-R	1.00	1.50	30	9.00	8.00
1116-0101-R	1.01	1.50	30	9.00	8.00
1116-0102-R	1.02	1.50	30	9.00	8.00
1116-0103-R	1.03	1.50	30	9.00	8.00
1116-0104-R	1.04	1.50	30	9.00	8.00
1116-0105-R	1.05	1.50	30	9.00	8.00
1116-0106-R	1.06	1.50	30	9.00	9.00
1116-0107-R	1.07	1.50	30	9.00	9.00
1116-0108-R	1.08	1.50	30	9.00	9.00
1116-0109-R	1.09	1.50	30	9.00	9.00
1116-0110-R	1.10	1.50	30	9.00	9.00
1116-0111-R	1.11	1.50	30	9.00	9.00
1116-0112-R	1.12	1.50	30	9.00	9.00
1116-0113-R	1.13	1.50	30	9.00	9.00
1116-0114-R	1.14	1.50	30	9.00	9.00
1116-0115-R	1.15	1.50	30	9.00	9.00
1116-0116-R	1.16	1.50	30	9.00	10.00
1116-0117-R	1.17	1.50	30	9.00	10.00
1116-0118-R	1.18	1.50	30	9.00	10.00
1116-0119-R	1.19	1.50	30	9.00	10.00
1116-0120-R	1.20	1.50	30	9.00	10.00
1116-0121-R	1.21	1.50	30	9.00	10.00
1116-0122-R	1.22	1.50	30	9.00	10.00
1116-0123-R	1.23	1.50	30	9.00	10.00
1116-0124-R	1.24	1.50	30	9.00	10.00
1116-0125-R	1.25	1.50	30	9.00	10.00
1116-0126-R	1.26	1.50	30	9.00	10.00
1116-0127-R	1.27	1.50	30	9.00	10.00
1116-0128-R	1.28	1.50	30	9.00	10.00
1116-0129-R	1.29	1.50	30	9.00	10.00
1116-0130-R	1.30	1.50	30	9.00	10.00
1116-0131-R	1.31	1.50	30	9.00	11.20
1116-0132-R	1.32	1.50	30	9.00	11.20
1116-0133-R	1.33	1.50	30	9.00	11.20
1116-0134-R	1.34	1.50	30	9.00	11.20

Micro-forets hélicoïdaux

Micro twist drills

Mikro-Spiralbohrer

Réf.	D1 h6	D2 h5	L1	L2	L3
1116-0135-R	1.35	1.50	30	9.00	11.20
1116-0136-R	1.36	1.50	30	9.00	11.20
1116-0137-R	1.37	1.50	30	9.00	11.20
1116-0138-R	1.38	1.50	30	9.00	11.20
1116-0139-R	1.39	1.50	30	9.00	11.20
1116-0140-R	1.40	1.50	30	9.00	11.20
1116-0141-R	1.41	1.50	30	9.00	11.20
1116-0142-R	1.42	1.50	30	9.00	11.20
1116-0143-R	1.43	1.50	30	9.00	11.20
1116-0144-R	1.44	1.50	30	9.00	11.20
1116-0145-R	1.45	1.50	30	9.00	11.20
1116-0146-R	1.46	1.50	30	9.00	11.20
1116-0147-R	1.47	1.50	30	9.00	11.20
1116-0148-R	1.48	1.50	30	9.00	11.20
1116-0149-R	1.49	1.50	30	9.00	11.20
1116-0150-R	1.50	2.00	40	10.00	11.20
1116-0151-R	1.51	2.00	40	10.00	13.40
1116-0152-R	1.52	2.00	40	10.00	13.40
1116-0153-R	1.53	2.00	40	10.00	13.40
1116-0154-R	1.54	2.00	40	10.00	13.40
1116-0155-R	1.55	2.00	40	10.00	13.40
1116-0156-R	1.56	2.00	40	10.00	13.40
1116-0157-R	1.57	2.00	40	10.00	13.40
1116-0158-R	1.58	2.00	40	10.00	13.40
1116-0159-R	1.59	2.00	40	10.00	13.40
1116-0160-R	1.60	2.00	40	10.00	13.40
1116-0161-R	1.61	2.00	40	10.00	13.40
1116-0162-R	1.62	2.00	40	10.00	13.40
1116-0163-R	1.63	2.00	40	10.00	13.40
1116-0164-R	1.64	2.00	40	10.00	13.40
1116-0165-R	1.65	2.00	40	10.00	13.40
1116-0166-R	1.66	2.00	40	10.00	13.40
1116-0167-R	1.67	2.00	40	10.00	13.40
1116-0168-R	1.68	2.00	40	10.00	13.40
1116-0169-R	1.69	2.00	40	10.00	13.40
1116-0170-R	1.70	2.00	40	10.00	13.40
1116-0171-R	1.71	2.00	40	10.00	13.40
1116-0172-R	1.72	2.00	40	10.00	13.40
1116-0173-R	1.73	2.00	40	10.00	13.40
1116-0174-R	1.74	2.00	40	10.00	13.40
1116-0175-R	1.75	2.00	40	10.00	13.40
1116-0176-R	1.76	2.00	40	10.00	13.40
1116-0177-R	1.77	2.00	40	10.00	13.40

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Micro-forets hélicoïdaux

Micro twist drills

Mikro-Spiralbohrer

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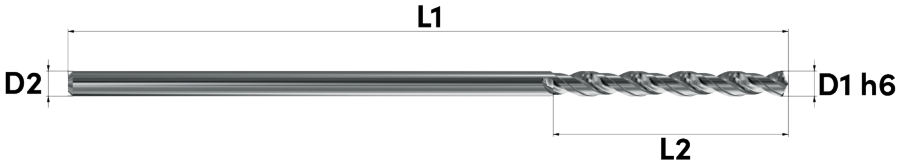
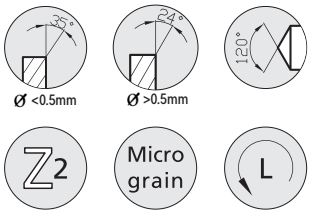
Réf.	D1 h6	D2 h5	L1	L2	L3
1116-0178-R	1.78	2.00	40	10.00	13.40
1116-0179-R	1.79	2.00	40	10.00	13.40
1116-0180-R	1.80	2.00	40	10.00	13.40
1116-0181-R	1.81	2.00	40	10.00	13.40
1116-0182-R	1.82	2.00	40	10.00	13.40
1116-0183-R	1.83	2.00	40	10.00	13.40
1116-0184-R	1.84	2.00	40	10.00	13.40
1116-0185-R	1.85	2.00	40	10.00	13.40
1116-0186-R	1.86	2.00	40	10.00	13.40
1116-0187-R	1.87	2.00	40	10.00	13.40
1116-0188-R	1.88	2.00	40	10.00	13.40
1116-0189-R	1.89	2.00	40	10.00	13.40
1116-0190-R	1.90	2.00	40	10.00	13.40
1116-0191-R	1.91	2.00	40	10.00	13.40
1116-0192-R	1.92	2.00	40	10.00	13.40
1116-0193-R	1.93	2.00	40	10.00	13.40
1116-0194-R	1.94	2.00	40	10.00	13.40
1116-0195-R	1.95	2.00	40	10.00	13.40
1116-0196-R	1.96	2.00	40	10.00	13.40
1116-0197-R	1.97	2.00	40	10.00	13.40
1116-0198-R	1.98	2.00	40	10.00	13.40
1116-0199-R	1.99	2.00	40	10.00	13.40

1117

Micro-forets hélicoïdaux à gauche
Micro twist drills left hand
Mikro-Spiralbohrer linksschneidend





Réf.	D1 h6	D2 h5	L1	L2
1117-0014-L	0.14	1.00	30.00	1.00
1117-0015-L	0.15	1.00	30.00	1.00
1117-0016-L	0.16	1.00	30.00	1.00
1117-0017-L	0.17	1.00	30.00	1.00
1117-0018-L	0.18	1.00	30.00	1.00
1117-0019-L	0.19	1.00	30.00	1.00
1117-0020-L	0.20	1.00	30.00	1.00
1117-0021-L	0.21	1.00	30.00	1.00
1117-0022-L	0.22	1.00	30.00	1.00
1117-0023-L	0.23	1.00	30.00	1.00
1117-0024-L	0.24	1.00	30.00	1.00
1117-0025-L	0.25	1.00	30.00	1.20
1117-0026-L	0.26	1.00	30.00	1.20
1117-0027-L	0.27	1.00	30.00	1.20
1117-0028-L	0.28	1.00	30.00	1.20
1117-0029-L	0.29	1.00	30.00	1.20
1117-0030-L	0.30	1.00	30.00	1.60
1117-0031-L	0.31	1.00	30.00	1.60
1117-0032-L	0.32	1.00	30.00	1.60
1117-0033-L	0.33	1.00	30.00	1.60
1117-0034-L	0.34	1.00	30.00	1.60
1117-0035-L	0.35	1.00	30.00	1.60
1117-0036-L	0.36	1.00	30.00	1.60
1117-0037-L	0.37	1.00	30.00	1.60
1117-0038-L	0.38	1.00	30.00	1.60
1117-0039-L	0.39	1.00	30.00	1.60
1117-0040-L	0.40	1.00	30.00	2.00
1117-0041-L	0.41	1.00	30.00	2.00
1117-0042-L	0.42	1.00	30.00	2.00
1117-0043-L	0.43	1.00	30.00	2.00
1117-0044-L	0.44	1.00	30.00	2.00
1117-0045-L	0.45	1.00	30.00	2.00
1117-0046-L	0.46	1.00	30.00	2.00
1117-0047-L	0.47	1.00	30.00	2.00
1117-0048-L	0.48	1.00	30.00	2.00

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Micro-forets hélicoïdaux à gauche

Micro twist drills left hand

Mikro-Spiralbohrer linksschneidend

1117

Réf.	D1 h6	D2 h5	L1	L2
1117-0049-L	0.49	1.00	30.00	2.00
1117-0050-L	0.50	1.00	30.00	3.00
1117-0051-L	0.51	1.00	30.00	3.00
1117-0052-L	0.52	1.00	30.00	3.00
1117-0053-L	0.53	1.00	30.00	3.00
1117-0054-L	0.54	1.00	30.00	3.00
1117-0055-L	0.55	1.00	30.00	3.00
1117-0056-L	0.56	1.00	30.00	3.00
1117-0057-L	0.57	1.00	30.00	3.00
1117-0058-L	0.58	1.00	30.00	3.00
1117-0059-L	0.59	1.00	30.00	3.00
1117-0060-L	0.60	1.00	30.00	4.00
1117-0061-L	0.61	1.00	30.00	4.00
1117-0062-L	0.62	1.00	30.00	4.00
1117-0063-L	0.63	1.00	30.00	4.00
1117-0064-L	0.64	1.00	30.00	4.00
1117-0065-L	0.65	1.00	30.00	4.00
1117-0066-L	0.66	1.00	30.00	4.00
1117-0067-L	0.67	1.00	30.00	4.00
1117-0068-L	0.68	1.00	30.00	4.00
1117-0069-L	0.69	1.00	30.00	4.00
1117-0070-L	0.70	1.00	30.00	5.00
1117-0071-L	0.71	1.00	30.00	5.00
1117-0072-L	0.72	1.00	30.00	5.00
1117-0073-L	0.73	1.00	30.00	5.00
1117-0074-L	0.74	1.00	30.00	5.00
1117-0075-L	0.75	1.00	30.00	5.00
1117-0076-L	0.76	1.00	30.00	5.00
1117-0077-L	0.77	1.00	30.00	5.00
1117-0078-L	0.78	1.00	30.00	5.00
1117-0079-L	0.79	1.00	30.00	5.00
1117-0080-L	0.80	1.50	30.00	5.00
1117-0081-L	0.81	1.50	30.00	5.00
1117-0082-L	0.82	1.50	30.00	5.00
1117-0083-L	0.83	1.50	30.00	5.00
1117-0084-L	0.84	1.50	30.00	5.00
1117-0085-L	0.85	1.50	30.00	5.00
1117-0086-L	0.86	1.50	30.00	5.00
1117-0087-L	0.87	1.50	30.00	5.00
1117-0088-L	0.88	1.50	30.00	5.00
1117-0089-L	0.89	1.50	30.00	5.00
1117-0090-L	0.90	1.50	30.00	5.50
1117-0091-L	0.91	1.50	30.00	5.50

1117

Micro-forets hélicoïdaux à gauche
Micro twist drills left hand
Mikro-Spiralbohrer linksschneidend

Réf.	D1 h6	D2 h5	L1	L2
1117-0092-L	0.92	1.50	30.00	5.50
1117-0093-L	0.93	1.50	30.00	5.50
1117-0094-L	0.94	1.50	30.00	5.50
1117-0095-L	0.95	1.50	30.00	5.50
1117-0096-L	0.96	1.50	30.00	5.50
1117-0097-L	0.97	1.50	30.00	5.50
1117-0098-L	0.98	1.50	30.00	5.50
1117-0099-L	0.99	1.50	30.00	5.50
1117-0100-L	1.00	1.50	30.00	9.00
1117-0101-L	1.01	1.50	30.00	9.00
1117-0102-L	1.02	1.50	30.00	9.00
1117-0103-L	1.03	1.50	30.00	9.00
1117-0104-L	1.04	1.50	30.00	9.00
1117-0105-L	1.05	1.50	30.00	9.00
1117-0106-L	1.06	1.50	30.00	9.00
1117-0107-L	1.07	1.50	30.00	9.00
1117-0108-L	1.08	1.50	30.00	9.00
1117-0109-L	1.09	1.50	30.00	9.00
1117-0110-L	1.10	1.50	30.00	9.00
1117-0111-L	1.11	1.50	30.00	9.00
1117-0112-L	1.12	1.50	30.00	9.00
1117-0113-L	1.13	1.50	30.00	9.00
1117-0114-L	1.14	1.50	30.00	9.00
1117-0115-L	1.15	1.50	30.00	9.00
1117-0116-L	1.16	1.50	30.00	9.00
1117-0117-L	1.17	1.50	30.00	9.00
1117-0118-L	1.18	1.50	30.00	9.00
1117-0119-L	1.19	1.50	30.00	9.00
1117-0120-L	1.20	1.50	30.00	9.00
1117-0121-L	1.21	1.50	30.00	9.00
1117-0122-L	1.22	1.50	30.00	9.00
1117-0123-L	1.23	1.50	30.00	9.00
1117-0124-L	1.24	1.50	30.00	9.00
1117-0125-L	1.25	1.50	30.00	9.00
1117-0126-L	1.26	1.50	30.00	9.00
1117-0127-L	1.27	1.50	30.00	9.00
1117-0128-L	1.28	1.50	30.00	9.00
1117-0129-L	1.29	1.50	30.00	9.00
1117-0130-L	1.30	1.50	30.00	9.00
1117-0131-L	1.31	1.50	30.00	9.00
1117-0132-L	1.32	1.50	30.00	9.00
1117-0133-L	1.33	1.50	30.00	9.00
1117-0134-L	1.34	1.50	30.00	9.00

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Micro-forets hélicoïdaux à gauche

Micro twist drills left hand

Mikro-Spiralbohrer linksschneidend

Réf.	D1 h6	D2 h5	L1	L2
1117-0135-L	1.35	1.50	30.00	9.00
1117-0136-L	1.36	1.50	30.00	9.00
1117-0137-L	1.37	1.50	30.00	9.00
1117-0138-L	1.38	1.50	30.00	9.00
1117-0139-L	1.39	1.50	30.00	9.00
1117-0140-L	1.40	1.50	30.00	9.00
1117-0141-L	1.41	1.50	30.00	9.00
1117-0142-L	1.42	1.50	30.00	9.00
1117-0143-L	1.43	1.50	30.00	9.00
1117-0144-L	1.44	1.50	30.00	9.00
1117-0145-L	1.45	1.50	30.00	9.00
1117-0146-L	1.46	1.50	30.00	9.00
1117-0147-L	1.47	1.50	30.00	9.00
1117-0148-L	1.48	1.50	30.00	9.00
1117-0149-L	1.49	1.50	30.00	9.00
1117-0150-L	1.50	2.00	40.00	10.00
1117-0151-L	1.51	2.00	40.00	10.00
1117-0152-L	1.52	2.00	40.00	10.00
1117-0153-L	1.53	2.00	40.00	10.00
1117-0154-L	1.54	2.00	40.00	10.00
1117-0155-L	1.55	2.00	40.00	10.00
1117-0156-L	1.56	2.00	40.00	10.00
1117-0157-L	1.57	2.00	40.00	10.00
1117-0158-L	1.58	2.00	40.00	10.00
1117-0159-L	1.59	2.00	40.00	10.00
1117-0160-L	1.60	2.00	40.00	10.00
1117-0161-L	1.61	2.00	40.00	10.00
1117-0162-L	1.62	2.00	40.00	10.00
1117-0163-L	1.63	2.00	40.00	10.00
1117-0164-L	1.64	2.00	40.00	10.00
1117-0165-L	1.65	2.00	40.00	10.00
1117-0166-L	1.66	2.00	40.00	10.00
1117-0167-L	1.67	2.00	40.00	10.00
1117-0168-L	1.68	2.00	40.00	10.00
1117-0169-L	1.69	2.00	40.00	10.00
1117-0170-L	1.70	2.00	40.00	10.00
1117-0171-L	1.71	2.00	40.00	10.00
1117-0172-L	1.72	2.00	40.00	10.00
1117-0173-L	1.73	2.00	40.00	10.00
1117-0174-L	1.74	2.00	40.00	10.00
1117-0175-L	1.75	2.00	40.00	10.00
1117-0176-L	1.76	2.00	40.00	10.00
1117-0177-L	1.77	2.00	40.00	10.00

1117

Micro-forets hélicoïdaux à gauche
Micro twist drills left hand
Mikro-Spiralbohrer linksschneidend

Réf.	D1 h6	D2 h5	L1	L2
1117-0178-L	1.78	2.00	40.00	10.00
1117-0179-L	1.79	2.00	40.00	10.00
1117-0180-L	1.80	2.00	40.00	10.00
1117-0181-L	1.81	2.00	40.00	10.00
1117-0182-L	1.82	2.00	40.00	10.00
1117-0183-L	1.83	2.00	40.00	10.00
1117-0184-L	1.84	2.00	40.00	10.00
1117-0185-L	1.85	2.00	40.00	10.00
1117-0186-L	1.86	2.00	40.00	10.00
1117-0187-L	1.87	2.00	40.00	10.00
1117-0188-L	1.88	2.00	40.00	10.00
1117-0189-L	1.89	2.00	40.00	10.00
1117-0190-L	1.90	2.00	40.00	10.00
1117-0191-L	1.91	2.00	40.00	10.00
1117-0192-L	1.92	2.00	40.00	10.00
1117-0193-L	1.93	2.00	40.00	10.00
1117-0194-L	1.94	2.00	40.00	10.00
1117-0195-L	1.95	2.00	40.00	10.00
1117-0196-L	1.96	2.00	40.00	10.00
1117-0197-L	1.97	2.00	40.00	10.00
1117-0198-L	1.98	2.00	40.00	10.00
1117-0199-L	1.99	2.00	40.00	10.00
1117-0200-L	2.00	3.00	40.00	12.00
1117-0201-L	2.01	3.00	40.00	12.00
1117-0202-L	2.02	3.00	40.00	12.00
1117-0203-L	2.03	3.00	40.00	12.00

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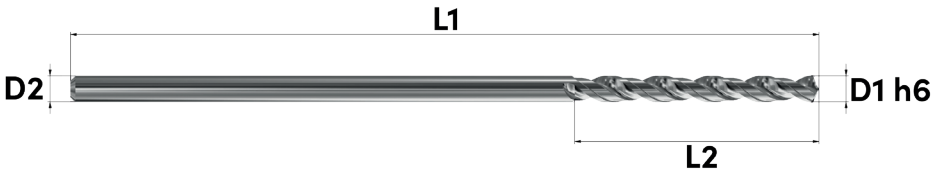
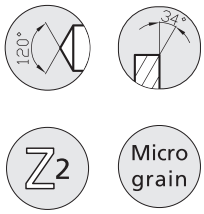
Micro-forets hélicoïdaux à longueur utile constante

Micro twist drills with constant cutting length

Mikro-Spiralbohrer mit konstanter Schnittlänge

1118





Réf.	D1 h6	D2 h5	L1	L2
1118-0050-R	0.50	1.50	30.00	6.00
1118-0051-R	0.51	1.50	30.00	6.00
1118-0052-R	0.52	1.50	30.00	6.00
1118-0053-R	0.53	1.50	30.00	6.00
1118-0054-R	0.54	1.50	30.00	6.00
1118-0055-R	0.55	1.50	30.00	6.00
1118-0056-R	0.56	1.50	30.00	6.00
1118-0057-R	0.57	1.50	30.00	6.00
1118-0058-R	0.58	1.50	30.00	6.00
1118-0059-R	0.59	1.50	30.00	6.00
1118-0060-R	0.60	1.50	30.00	6.00
1118-0061-R	0.61	1.50	30.00	6.00
1118-0062-R	0.62	1.50	30.00	6.00
1118-0063-R	0.63	1.50	30.00	6.00
1118-0064-R	0.64	1.50	30.00	6.00
1118-0065-R	0.65	1.50	30.00	6.00
1118-0066-R	0.66	1.50	30.00	6.00
1118-0067-R	0.67	1.50	30.00	6.00
1118-0068-R	0.68	1.50	30.00	6.00
1118-0069-R	0.69	1.50	30.00	6.00
1118-0070-R	0.70	1.50	30.00	6.00
1118-0071-R	0.71	1.50	30.00	6.00
1118-0072-R	0.72	1.50	30.00	6.00
1118-0073-R	0.73	1.50	30.00	6.00
1118-0074-R	0.74	1.50	30.00	6.00
1118-0075-R	0.75	1.50	30.00	6.00
1118-0076-R	0.76	1.50	30.00	6.00
1118-0077-R	0.77	1.50	30.00	6.00
1118-0078-R	0.78	1.50	30.00	6.00
1118-0079-R	0.79	1.50	30.00	6.00
1118-0080-R	0.80	1.50	30.00	6.00
1118-0081-R	0.81	1.50	30.00	6.00
1118-0082-R	0.82	1.50	30.00	6.00
1118-0083-R	0.83	1.50	30.00	6.00

Micro-forets hélicoïdaux à longueur utile constante

Micro twist drills with constant cutting length

Mikro-Spiralbohrer mit konstanter Schnittlänge

Réf.	D1 h6	D2 h5	L1	L2
1118-0084-R	0.84	1.50	30.00	6.00
1118-0085-R	0.85	1.50	30.00	6.00
1118-0086-R	0.86	1.50	30.00	6.00
1118-0087-R	0.87	1.50	30.00	6.00
1118-0088-R	0.88	1.50	30.00	6.00
1118-0089-R	0.89	1.50	30.00	6.00
1118-0090-R	0.90	1.50	30.00	6.00
1118-0091-R	0.91	1.50	30.00	6.00
1118-0092-R	0.92	1.50	30.00	6.00
1118-0093-R	0.93	1.50	30.00	6.00
1118-0094-R	0.94	1.50	30.00	6.00
1118-0095-R	0.95	1.50	30.00	6.00
1118-0096-R	0.96	1.50	30.00	6.00
1118-0097-R	0.97	1.50	30.00	6.00
1118-0098-R	0.98	1.50	30.00	6.00
1118-0099-R	0.99	1.50	30.00	6.00
1118-0100-R	1.00	1.50	30.00	6.00
1118-0101-R	1.01	1.50	30.00	6.00
1118-0102-R	1.02	1.50	30.00	6.00
1118-0103-R	1.03	1.50	30.00	6.00
1118-0104-R	1.04	1.50	30.00	6.00
1118-0105-R	1.05	1.50	30.00	6.00
1118-0106-R	1.06	1.50	30.00	6.00
1118-0107-R	1.07	1.50	30.00	6.00
1118-0108-R	1.08	1.50	30.00	6.00
1118-0109-R	1.09	1.50	30.00	6.00
1118-0110-R	1.10	1.50	30.00	6.00
1118-0111-R	1.11	1.50	30.00	6.00
1118-0112-R	1.12	1.50	30.00	6.00
1118-0113-R	1.13	1.50	30.00	6.00
1118-0114-R	1.14	1.50	30.00	6.00
1118-0115-R	1.15	1.50	30.00	6.00
1118-0116-R	1.16	1.50	30.00	6.00
1118-0117-R	1.17	1.50	30.00	6.00
1118-0118-R	1.18	1.50	30.00	6.00
1118-0119-R	1.19	1.50	30.00	6.00
1118-0120-R	1.20	1.50	30.00	6.00
1118-0121-R	1.21	1.50	30.00	6.00
1118-0122-R	1.22	1.50	30.00	6.00
1118-0123-R	1.23	1.50	30.00	6.00
1118-0124-R	1.24	1.50	30.00	6.00
1118-0125-R	1.25	1.50	30.00	6.00
1118-0126-R	1.26	1.50	30.00	6.00

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Micro-forets hélicoïdaux à longueur utile constante

Micro twist drills with constant cutting length

Mikro-Spiralbohrer mit konstanter Schnittlänge

Réf.	D1 h6	D2 h5	L1	L2
1118-0127-R	1.27	1.50	30.00	6.00
1118-0128-R	1.28	1.50	30.00	6.00
1118-0129-R	1.29	1.50	30.00	6.00
1118-0130-R	1.30	1.50	30.00	6.00
1118-0131-R	1.31	1.50	30.00	6.00
1118-0132-R	1.32	1.50	30.00	6.00
1118-0133-R	1.33	1.50	30.00	6.00
1118-0134-R	1.34	1.50	30.00	6.00
1118-0135-R	1.35	1.50	30.00	6.00
1118-0136-R	1.36	2.00	30.00	6.00
1118-0137-R	1.37	2.00	30.00	6.00
1118-0138-R	1.38	2.00	30.00	6.00
1118-0139-R	1.39	2.00	30.00	6.00
1118-0140-R	1.40	2.00	30.00	6.00
1118-0141-R	1.41	2.00	30.00	6.00
1118-0142-R	1.42	2.00	30.00	6.00
1118-0143-R	1.43	2.00	30.00	6.00
1118-0144-R	1.44	2.00	30.00	6.00
1118-0145-R	1.45	2.00	30.00	6.00
1118-0146-R	1.46	2.00	30.00	6.00
1118-0147-R	1.47	2.00	30.00	6.00
1118-0148-R	1.48	2.00	30.00	6.00
1118-0149-R	1.49	2.00	30.00	6.00
1118-0150-R	1.50	2.00	30.00	6.00
1118-0151-R	1.51	2.00	30.00	6.00
1118-0152-R	1.52	2.00	30.00	6.00
1118-0153-R	1.53	2.00	30.00	6.00
1118-0154-R	1.54	2.00	30.00	6.00
1118-0155-R	1.55	2.00	30.00	6.00
1118-0156-R	1.56	2.00	30.00	6.00
1118-0157-R	1.57	2.00	30.00	6.00
1118-0158-R	1.58	2.00	30.00	6.00
1118-0159-R	1.59	2.00	30.00	6.00
1118-0160-R	1.60	2.00	30.00	6.00
1118-0161-R	1.61	2.00	30.00	6.00
1118-0162-R	1.62	2.00	30.00	6.00
1118-0163-R	1.63	2.00	30.00	6.00
1118-0164-R	1.64	2.00	30.00	6.00
1118-0165-R	1.65	2.00	30.00	6.00
1118-0166-R	1.66	2.00	30.00	6.00
1118-0167-R	1.67	2.00	30.00	6.00
1118-0168-R	1.68	2.00	30.00	6.00
1118-0169-R	1.69	2.00	30.00	6.00

Micro-forets hélicoïdaux à longueur utile constante

Micro twist drills with constant cutting length

Mikro-Spiralbohrer mit konstanter Schnittlänge

Réf.	D1 h6	D2 h5	L1	L2
1118-0170-R	1.70	2.00	30.00	6.00
1118-0171-R	1.71	2.00	30.00	6.00
1118-0172-R	1.72	2.00	30.00	6.00
1118-0173-R	1.73	2.00	30.00	6.00
1118-0174-R	1.74	2.00	30.00	6.00
1118-0175-R	1.75	2.00	30.00	6.00
1118-0176-R	1.76	2.00	30.00	6.00
1118-0177-R	1.77	2.00	30.00	6.00
1118-0178-R	1.78	2.00	30.00	6.00
1118-0179-R	1.79	2.00	30.00	6.00
1118-0180-R	1.80	2.00	30.00	6.00
1118-0181-R	1.81	2.00	30.00	6.00
1118-0182-R	1.82	2.00	30.00	6.00
1118-0183-R	1.83	2.00	30.00	6.00
1118-0184-R	1.84	2.00	30.00	6.00
1118-0185-R	1.85	2.00	30.00	6.00
1118-0186-R	1.86	2.00	30.00	6.00
1118-0187-R	1.87	2.00	30.00	6.00
1118-0188-R	1.88	2.00	30.00	6.00
1118-0189-R	1.89	2.00	30.00	6.00
1118-0190-R	1.90	2.00	30.00	6.00
1118-0191-R	1.91	2.00	30.00	6.00
1118-0192-R	1.92	2.00	30.00	6.00
1118-0193-R	1.93	2.00	30.00	6.00
1118-0194-R	1.94	2.00	30.00	6.00
1118-0195-R	1.95	2.00	30.00	6.00
1118-0196-R	1.96	2.00	30.00	6.00
1118-0197-R	1.97	2.00	30.00	6.00
1118-0198-R	1.98	2.00	30.00	6.00
1118-0199-R	1.99	2.00	30.00	6.00
1118-0200-R	2.00	2.50	30.00	6.00
1118-0201-R	2.01	2.50	30.00	6.00
1118-0202-R	2.02	2.50	30.00	6.00
1118-0203-R	2.03	2.50	30.00	6.00
1118-0204-R	2.04	2.50	30.00	6.00
1118-0205-R	2.05	2.50	30.00	6.00
1118-0206-R	2.06	2.50	30.00	6.00
1118-0207-R	2.07	2.50	30.00	6.00
1118-0208-R	2.08	2.50	30.00	6.00
1118-0209-R	2.09	2.50	30.00	6.00
1118-0210-R	2.10	2.50	30.00	6.00
1118-0211-R	2.11	2.50	30.00	6.00
1118-0212-R	2.12	2.50	30.00	6.00

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Micro-forets hélicoïdaux à longueur utile constante

Micro twist drills with constant cutting length

Mikro-Spiralbohrer mit konstanter Schnittlänge

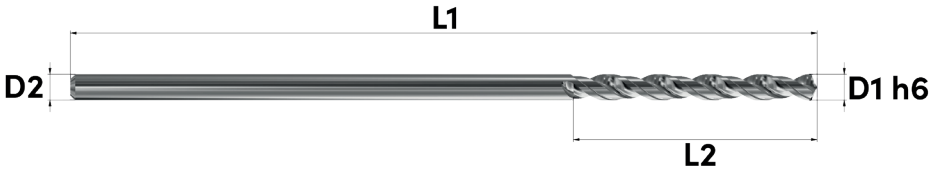
Réf.	D1 h6	D2 h5	L1	L2
1118-0213-R	2.13	2.50	30.00	6.00
1118-0214-R	2.14	2.50	30.00	6.00
1118-0215-R	2.15	2.50	30.00	6.00
1118-0216-R	2.16	2.50	30.00	6.00
1118-0217-R	2.17	2.50	30.00	6.00
1118-0218-R	2.18	2.50	30.00	6.00
1118-0219-R	2.19	2.50	30.00	6.00
1118-0220-R	2.20	2.50	30.00	6.00
1118-0221-R	2.21	2.50	30.00	6.00
1118-0222-R	2.22	2.50	30.00	6.00
1118-0223-R	2.23	2.50	30.00	6.00
1118-0224-R	2.24	2.50	30.00	6.00
1118-0225-R	2.25	2.50	30.00	6.00
1118-0226-R	2.26	2.50	30.00	6.00
1118-0227-R	2.27	2.50	30.00	6.00
1118-0228-R	2.28	2.50	30.00	6.00
1118-0229-R	2.29	2.50	30.00	6.00
1118-0230-R	2.30	2.50	30.00	6.00
1118-0231-R	2.31	2.50	30.00	6.00
1118-0232-R	2.32	2.50	30.00	6.00
1118-0233-R	2.33	2.50	30.00	6.00
1118-0234-R	2.34	2.50	30.00	6.00
1118-0235-R	2.35	2.50	30.00	6.00
1118-0236-R	2.36	2.50	30.00	6.00
1118-0237-R	2.37	2.50	30.00	6.00
1118-0238-R	2.38	2.50	30.00	6.00
1118-0239-R	2.39	2.50	30.00	6.00
1118-0240-R	2.40	2.50	30.00	6.00
1118-0241-R	2.41	2.50	30.00	6.00
1118-0242-R	2.42	2.50	30.00	6.00
1118-0243-R	2.43	2.50	30.00	6.00
1118-0244-R	2.44	2.50	30.00	6.00
1118-0245-R	2.45	2.50	30.00	6.00
1118-0246-R	2.46	2.50	30.00	6.00
1118-0247-R	2.47	2.50	30.00	6.00
1118-0248-R	2.48	2.50	30.00	6.00
1118-0249-R	2.49	2.50	30.00	6.00
1118-0250-R	2.50	2.50	30.00	6.00

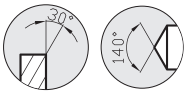
11200

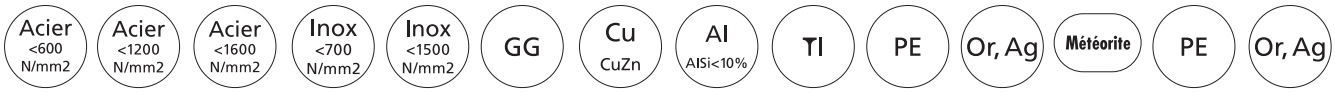
Micro-forets cadrans 140°

Micro drills for dial 140°

Mikrobohrer für Zifferblättern 140°







Réf.	D1 h6	D2 h5	L1	L2
11200-0015	0.15	1.50	30.00	1.00
11200-0016	0.16	1.50	30.00	1.00
11200-0017	0.17	1.50	30.00	1.00
11200-0018	0.18	1.50	30.00	1.00
11200-0019	0.19	1.50	30.00	1.00
11200-0020	0.20	1.50	30.00	1.00
11200-0021	0.21	1.50	30.00	1.00
11200-0022	0.22	1.50	30.00	1.00
11200-0023	0.23	1.50	30.00	1.00
11200-0024	0.24	1.50	30.00	1.00
11200-0025	0.25	1.50	30.00	1.00
11200-0026	0.26	1.50	30.00	1.00
11200-0027	0.27	1.50	30.00	1.00
11200-0028	0.28	1.50	30.00	1.00
11200-0029	0.29	1.50	30.00	1.00
11200-0030	0.30	1.50	30.00	1.00
11200-0031	0.31	1.50	30.00	1.00
11200-0032	0.32	1.50	30.00	1.00
11200-0033	0.33	1.50	30.00	1.00
11200-0034	0.34	1.50	30.00	1.00
11200-0035	0.35	1.50	30.00	1.00
11200-0036	0.36	1.50	30.00	1.00
11200-0037	0.37	1.50	30.00	1.00
11200-0038	0.38	1.50	30.00	1.00
11200-0039	0.39	1.50	30.00	1.00
11200-0040	0.40	1.50	30.00	1.00
11200-0041	0.41	1.50	30.00	1.00
11200-0042	0.42	1.50	30.00	1.00
11200-0043-1	0.43	1.50	30.00	1.00
11200-0043	0.43	1.50	30.00	4.00
11200-0044-1	0.44	1.50	30.00	1.00
11200-0044	0.44	1.50	30.00	4.00
11200-0050-1	0.50	1.50	30.00	1.00
11200-0050	0.50	1.50	30.00	4.00
11200-0060-1	0.60	1.50	30.00	1.00
11200-0060	0.60	1.50	30.00	4.00

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Micro-forets cadrans 140°

Micro drills for dial 140°

Mikrobohrer für Zifferblättern 140°

11200

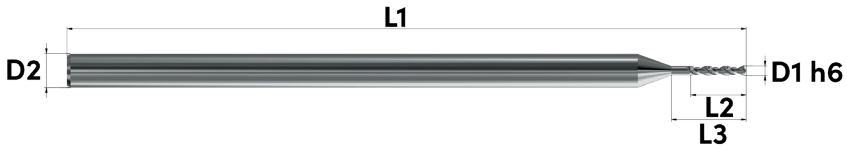
Réf.	D1 h6	D2 h5	L1	L2
11200-0061	0.61	1.50	30.00	4.00
11200-0062	0.62	1.50	30.00	4.00
11200-0063	0.63	1.50	30.00	4.00
11200-0064	0.64	1.50	30.00	4.00
11200-0065-1	0.65	1.50	30.00	1.00
11200-0065	0.65	1.50	30.00	4.00
11200-0066	0.66	1.50	30.00	4.00
11200-0067	0.67	1.50	30.00	4.00
11200-0068-1	0.68	1.50	30.00	1.00
11200-0068	0.68	1.50	30.00	4.00
11200-0069	0.69	1.50	30.00	4.00
11200-0070	0.70	1.50	30.00	4.00
11200-0075-1	0.75	1.50	30.00	1.00
11200-0075	0.75	1.50	30.00	4.00
11200-0076-1	0.76	1.50	30.00	1.00
11200-0076	0.76	1.50	30.00	4.00
11200-0200	2.00	2.50	30.00	4.00

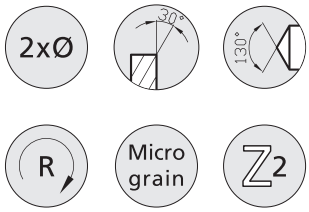
11203

Micro-forets hélicoïdaux 2xØ corps Ø3

Micro twist drills 2xØ shank Ø3

Mikro-Spiralbohrer 2xØ Schaft Ø3





Réf.	D1 h5	D2 h5	L1	L2	L3
11203-0010	0.10	3.00	38.00	0.35	0.55
11203-0011	0.11	3.00	38.00	0.35	0.55
11203-0012	0.12	3.00	38.00	0.35	0.55
11203-0013	0.13	3.00	38.00	0.40	0.60
11203-0014	0.14	3.00	38.00	0.40	0.60
11203-0015	0.15	3.00	38.00	0.40	0.60
11203-0016	0.16	3.00	38.00	0.40	0.60
11203-0017	0.17	3.00	38.00	0.50	0.70
11203-0018	0.18	3.00	38.00	0.50	0.70
11203-0019	0.19	3.00	38.00	0.50	0.70
11203-0020	0.20	3.00	38.00	0.55	0.75
11203-0021	0.21	3.00	38.00	0.55	0.75
11203-0022	0.22	3.00	38.00	0.60	0.80
11203-0023	0.23	3.00	38.00	0.60	0.80
11203-0024	0.24	3.00	38.00	0.60	0.80
11203-0025	0.25	3.00	38.00	0.70	0.90
11203-0026	0.26	3.00	38.00	0.70	0.90
11203-0027	0.27	3.00	38.00	0.70	0.90
11203-0028	0.28	3.00	38.00	0.80	1.00
11203-0029	0.29	3.00	38.00	0.80	1.00
11203-0030	0.30	3.00	38.00	0.90	1.20
11203-0031	0.31	3.00	38.00	0.90	1.20
11203-0032	0.32	3.00	38.00	0.90	1.20
11203-0033	0.33	3.00	38.00	0.90	1.20
11203-0034	0.34	3.00	38.00	0.90	1.35
11203-0035	0.35	3.00	38.00	0.90	1.35
11203-0036	0.36	3.00	38.00	0.95	1.35
11203-0037	0.37	3.00	38.00	0.95	1.35
11203-0038	0.38	3.00	38.00	0.95	1.50
11203-0039	0.39	3.00	38.00	0.95	1.50
11203-0040	0.40	3.00	38.00	0.80	1.60
11203-0041	0.41	3.00	38.00	0.82	1.60
11203-0042	0.42	3.00	38.00	0.84	1.60
11203-0043	0.43	3.00	38.00	0.86	1.60
11203-0044	0.44	3.00	38.00	0.88	1.60

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Micro-forets hélicoïdaux 2xØ corps Ø3

Micro twist drills 2xØ shank Ø3

Mikro-Spiralbohrer 2xØ Schaft Ø3

11203

Réf.	D1 h5	D2 h5	L1	L2	L3
11203-0045	0.45	3.00	38.00	0.90	1.60
11203-0046	0.46	3.00	38.00	0.92	1.70
11203-0047	0.47	3.00	38.00	0.94	1.70
11203-0048	0.48	3.00	38.00	0.96	1.70
11203-0049	0.49	3.00	38.00	0.98	1.70
11203-0050	0.50	3.00	38.00	1.00	1.70
11203-0051	0.51	3.00	38.00	1.02	1.80
11203-0052	0.52	3.00	38.00	1.04	1.80
11203-0053	0.53	3.00	38.00	1.06	1.80
11203-0054	0.54	3.00	38.00	1.08	1.80
11203-0055	0.55	3.00	38.00	1.10	1.80
11203-0056	0.56	3.00	38.00	1.12	1.90
11203-0057	0.57	3.00	38.00	1.14	1.90
11203-0058	0.58	3.00	38.00	1.16	1.90
11203-0059	0.59	3.00	38.00	1.18	1.90
11203-0060	0.60	3.00	38.00	1.20	1.90
11203-0061	0.61	3.00	38.00	1.22	2.00
11203-0062	0.62	3.00	38.00	1.24	2.00
11203-0063	0.63	3.00	38.00	1.26	2.00
11203-0064	0.64	3.00	38.00	1.28	2.00
11203-0065	0.65	3.00	38.00	1.30	2.00
11203-0066	0.66	3.00	38.00	1.32	2.10
11203-0067	0.67	3.00	38.00	1.34	2.10
11203-0068	0.68	3.00	38.00	1.36	2.10
11203-0069	0.69	3.00	38.00	1.38	2.10
11203-0070	0.70	3.00	38.00	1.40	2.10
11203-0071	0.71	3.00	38.00	1.42	2.20
11203-0072	0.72	3.00	38.00	1.44	2.20
11203-0073	0.73	3.00	38.00	1.46	2.20
11203-0074	0.74	3.00	38.00	1.48	2.20
11203-0075	0.75	3.00	38.00	1.50	2.20
11203-0076	0.76	3.00	38.00	1.52	2.30
11203-0077	0.77	3.00	38.00	1.54	2.30
11203-0078	0.78	3.00	38.00	1.56	2.30
11203-0079	0.79	3.00	38.00	1.58	2.30
11203-0080	0.80	3.00	38.00	1.60	2.30
11203-0081	0.81	3.00	38.00	1.62	2.40
11203-0082	0.82	3.00	38.00	1.64	2.40
11203-0083	0.83	3.00	38.00	1.66	2.40
11203-0084	0.84	3.00	38.00	1.68	2.40
11203-0085	0.85	3.00	38.00	1.70	2.40
11203-0086	0.86	3.00	38.00	1.72	2.50
11203-0087	0.87	3.00	38.00	1.74	2.50

11203

Micro-forets hélicoïdaux 2xØ corps Ø3

Micro twist drills 2xØ shank Ø3

Mikro-Spiralbohrer 2xØ Schaft Ø3

Réf.	D1 h5	D2 h5	L1	L2	L3
11203-0088	0.88	3.00	38.00	1.76	2.50
11203-0089	0.89	3.00	38.00	1.78	2.50
11203-0090	0.90	3.00	38.00	1.80	2.50
11203-0091	0.91	3.00	38.00	1.82	2.60
11203-0092	0.92	3.00	38.00	1.84	2.60
11203-0093	0.93	3.00	38.00	1.86	2.60
11203-0094	0.94	3.00	38.00	1.88	2.60
11203-0095	0.95	3.00	38.00	1.90	2.60
11203-0096	0.96	3.00	38.00	1.92	2.70
11203-0097	0.97	3.00	38.00	1.94	2.70
11203-0098	0.98	3.00	38.00	1.96	2.70
11203-0099	0.99	3.00	38.00	1.98	2.70
11203-0100	1.00	3.00	38.00	2.00	2.70
11203-0101	1.01	3.00	38.00	2.02	3.50
11203-0102	1.02	3.00	38.00	2.04	3.50
11203-0103	1.03	3.00	38.00	2.06	3.50
11203-0104	1.04	3.00	38.00	2.08	3.50
11203-0105	1.05	3.00	38.00	2.10	3.50
11203-0106	1.06	3.00	38.00	2.12	3.60
11203-0107	1.07	3.00	38.00	2.14	3.60
11203-0108	1.08	3.00	38.00	2.16	3.60
11203-0109	1.09	3.00	38.00	2.18	3.60
11203-0110	1.10	3.00	38.00	2.20	3.60
11203-0111	1.11	3.00	38.00	2.22	3.70
11203-0112	1.12	3.00	38.00	2.24	3.70
11203-0113	1.13	3.00	38.00	2.26	3.70
11203-0114	1.14	3.00	38.00	2.28	3.70
11203-0115	1.15	3.00	38.00	2.30	3.70
11203-0116	1.16	3.00	38.00	2.32	3.80
11203-0117	1.17	3.00	38.00	2.34	3.80
11203-0118	1.18	3.00	38.00	2.36	3.80
11203-0119	1.19	3.00	38.00	2.38	3.80
11203-0120	1.20	3.00	38.00	2.40	3.80
11203-0121	1.21	3.00	38.00	2.42	4.20
11203-0122	1.22	3.00	38.00	2.44	4.20
11203-0123	1.23	3.00	38.00	2.46	4.20
11203-0124	1.24	3.00	38.00	2.48	4.20
11203-0125	1.25	3.00	38.00	2.50	4.20
11203-0126	1.26	3.00	38.00	2.52	4.30
11203-0127	1.27	3.00	38.00	2.54	4.30
11203-0128	1.28	3.00	38.00	2.56	4.30
11203-0129	1.29	3.00	38.00	2.58	4.30
11203-0130	1.30	3.00	38.00	2.60	4.30

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Micro-forets hélicoïdaux 2xØ corps Ø3

Micro twist drills 2xØ shank Ø3

Mikro-Spiralbohrer 2xØ Schaft Ø3

11203

Réf.	D1 h5	D2 h5	L1	L2	L3
11203-0131	1.31	3.00	38.00	2.62	4.40
11203-0132	1.32	3.00	38.00	2.64	4.40
11203-0133	1.33	3.00	38.00	2.66	4.40
11203-0134	1.34	3.00	38.00	2.68	4.40
11203-0135	1.35	3.00	38.00	2.70	4.40
11203-0136	1.36	3.00	38.00	2.72	4.50
11203-0137	1.37	3.00	38.00	2.74	4.50
11203-0138	1.38	3.00	38.00	2.76	4.50
11203-0139	1.39	3.00	38.00	2.78	4.50
11203-0140	1.40	3.00	38.00	2.80	4.50
11203-0141	1.41	3.00	38.00	2.82	4.60
11203-0142	1.42	3.00	38.00	2.84	4.60
11203-0143	1.43	3.00	38.00	2.86	4.60
11203-0144	1.44	3.00	38.00	2.88	4.60
11203-0145	1.45	3.00	38.00	2.90	4.60
11203-0146	1.46	3.00	38.00	2.92	4.70
11203-0147	1.47	3.00	38.00	2.94	4.70
11203-0148	1.48	3.00	38.00	2.96	4.70
11203-0149	1.49	3.00	38.00	2.98	4.70
11203-0150	1.50	3.00	38.00	3.00	4.70
11203-0151	1.51	3.00	38.00	3.02	5.10
11203-0152	1.52	3.00	38.00	3.04	5.10
11203-0153	1.53	3.00	38.00	3.06	5.10
11203-0154	1.54	3.00	38.00	3.08	5.10
11203-0155	1.55	3.00	38.00	3.10	5.10
11203-0156	1.56	3.00	38.00	3.12	5.20
11203-0157	1.57	3.00	38.00	3..14	5.20
11203-0158	1.58	3.00	38.00	3.16	5.20
11203-0159	1.59	3.00	38.00	3.18	5.20
11203-0160	1.60	3.00	38.00	3.20	5.20
11203-0161	1.61	3.00	38.00	3.22	5.30
11203-0162	1.62	3.00	38.00	3.24	5.30
11203-0163	1.63	3.00	38.00	3.26	5.30
11203-0164	1.64	3.00	38.00	3.28	5.30
11203-0165	1.65	3.00	38.00	3.30	5.30
11203-0166	1.66	3.00	38.00	3.32	5.40
11203-0167	1.67	3.00	38.00	3.34	5.40
11203-0168	1.68	3.00	38.00	3.36	5.40
11203-0169	1.69	3.00	38.00	3.38	5.40
11203-0170	1.70	3.00	38.00	3.40	5.40
11203-0171	1.71	3.00	38.00	3.42	5.50
11203-0172	1.72	3.00	38.00	3.44	5.50
11203-0173	1.73	3.00	38.00	3.46	5.50

11203

Micro-forets hélicoïdaux 2xØ corps Ø3

Micro twist drills 2xØ shank Ø3

Mikro-Spiralbohrer 2xØ Schaft Ø3

Réf.	D1 h5	D2 h5	L1	L2	L3
11203-0174	1.74	3.00	38.00	3.48	5.50
11203-0175	1.75	3.00	38.00	3.50	5.50
11203-0176	1.76	3.00	38.00	3.52	5.60
11203-0177	1.77	3.00	38.00	3.54	5.60
11203-0178	1.78	3.00	38.00	3.56	5.60
11203-0179	1.79	3.00	38.00	3.58	5.60
11203-0180	1.80	3.00	38.00	3.60	5.60
11203-0181	1.81	3.00	38.00	3.62	5.70
11203-0182	1.82	3.00	38.00	3.64	5.70
11203-0183	1.83	3.00	38.00	3.66	5.70
11203-0184	1.84	3.00	38.00	3.68	5.70
11203-0185	1.85	3.00	38.00	3.70	5.70
11203-0186	1.86	3.00	38.00	3.72	5.80
11203-0187	1.87	3.00	38.00	3.74	5.80
11203-0188	1.88	3.00	38.00	3.76	5.80
11203-0189	1.89	3.00	38.00	3.78	5.80
11203-0190	1.90	3.00	38.00	3.80	5.80
11203-0191	1.91	3.00	38.00	3.82	5.90
11203-0192	1.92	3.00	38.00	3.84	5.90
11203-0193	1.93	3.00	38.00	3.86	5.90
11203-0194	1.94	3.00	38.00	3.88	5.90
11203-0195	1.95	3.00	38.00	3.90	5.90
11203-0196	1.96	3.00	38.00	3.92	6.00
11203-0197	1.97	3.00	38.00	3.94	6.00
11203-0198	1.98	3.00	38.00	3.96	6.00
11203-0199	1.99	3.00	38.00	3.98	6.00
11203-0200	2.00	3.00	38.00	4.00	6.00

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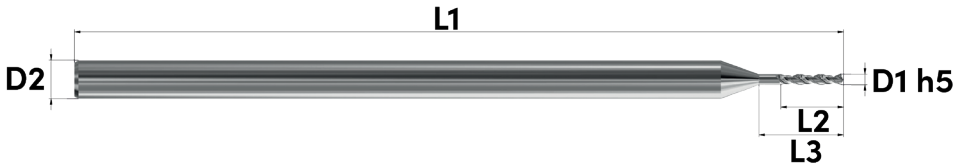
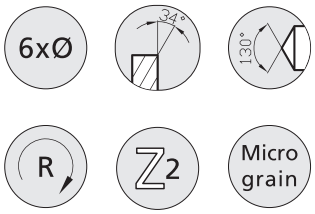
Micro-forets hélicoïdaux 6xØ corps Ø3

Micro twist drills 6xØ shank Ø3

Mikro-Spiralbohrer 6xØ Schaft Ø3

11206





Or, Ag | TI | Cu CuZn | GG | Inox <1500 N/mm2 | Inox <700 N/mm2 | Acier <1600 N/mm2 | Acier <1200 N/mm2 | Acier <600 N/mm2

Réf.	D1 h5	D2 h5	L1	L2	L3
11206-0010	0.10	3.00	38.00	0.50	0.70
11206-0011	0.11	3.00	38.00	0.50	0.70
11206-0012	0.12	3.00	38.00	0.50	0.70
11206-0013	0.13	3.00	38.00	0.80	1.00
11206-0014	0.14	3.00	38.00	0.80	1.00
11206-0015	0.15	3.00	38.00	0.80	1.00
11206-0016	0.16	3.00	38.00	1.10	1.40
11206-0017	0.17	3.00	38.00	1.10	1.40
11206-0018	0.18	3.00	38.00	1.10	1.40
11206-0019	0.19	3.00	38.00	1.10	1.40
11206-0020	0.20	3.00	38.00	1.50	1.80
11206-0021	0.21	3.00	38.00	1.50	1.80
11206-0022	0.22	3.00	38.00	1.50	1.80
11206-0023	0.23	3.00	38.00	1.50	1.80
11206-0024	0.24	3.00	38.00	1.50	1.80
11206-0025	0.25	3.00	38.00	1.90	1.80
11206-0026	0.26	3.00	38.00	1.90	2.20
11206-0027	0.27	3.00	38.00	1.90	2.20
11206-0028	0.28	3.00	38.00	1.90	2.20
11206-0029	0.29	3.00	38.00	1.90	2.20
11206-0030	0.30	3.00	38.00	1.80	2.40
11206-0031	0.31	3.00	38.00	1.80	2.40
11206-0032	0.32	3.00	38.00	1.80	2.40
11206-0033	0.33	3.00	38.00	1.80	2.40
11206-0034	0.34	3.00	38.00	1.80	2.40
11206-0035	0.35	3.00	38.00	2.20	2.80
11206-0036	0.36	3.00	38.00	2.20	2.80
11206-0037	0.37	3.00	38.00	2.20	2.80
11206-0038	0.38	3.00	38.00	2.20	2.80
11206-0039	0.39	3.00	38.00	2.70	3.60
11206-0040	0.40	3.00	38.00	2.70	3.60
11206-0041	0.41	3.00	38.00	2.70	3.60
11206-0042	0.42	3.00	38.00	2.70	3.60
11206-0043	0.43	3.00	38.00	2.70	3.60
11206-0044	0.44	3.00	38.00	2.70	3.60

11206

Micro-forets hélicoïdaux 6xØ corps Ø3

Micro twist drills 6xØ shank Ø3

Mikro-Spiralbohrer 6xØ Schaft Ø3

Réf.	D1 h5	D2 h5	L1	L2	L3
11206-0045	0.45	3.00	38.00	2.70	3.60
11206-0046	0.46	3.00	38.00	2.70	3.60
11206-0047	0.47	3.00	38.00	2.70	3.60
11206-0048	0.48	3.00	38.00	2.70	3.60
11206-0049	0.49	3.00	38.00	3.20	4.00
11206-0050	0.50	3.00	38.00	3.20	4.00
11206-0051	0.51	3.00	38.00	3.20	4.00
11206-0052	0.52	3.00	38.00	3.20	4.00
11206-0053	0.53	3.00	38.00	3.20	4.00
11206-0054	0.54	3.00	38.00	3.60	4.50
11206-0055	0.55	3.00	38.00	3.60	4.50
11206-0056	0.56	3.00	38.00	3.60	4.50
11206-0057	0.57	3.00	38.00	3.60	4.50
11206-0058	0.58	3.00	38.00	3.60	4.50
11206-0059	0.59	3.00	38.00	3.60	4.50
11206-0060	0.60	3.00	38.00	3.60	4.50
11206-0061	0.61	3.00	38.00	3.90	5.00
11206-0062	0.62	3.00	38.00	3.90	5.00
11206-0063	0.63	3.00	38.00	3.90	5.00
11206-0064	0.64	3.00	38.00	3.90	5.00
11206-0065	0.65	3.00	38.00	3.90	5.00
11206-0066	0.66	3.00	38.00	3.90	5.00
11206-0067	0.67	3.00	38.00	3.90	5.00
11206-0068	0.68	3.00	38.00	4.50	5.60
11206-0069	0.69	3.00	38.00	4.50	5.60
11206-0070	0.70	3.00	38.00	4.50	5.60
11206-0071	0.71	3.00	38.00	4.50	5.60
11206-0072	0.72	3.00	38.00	4.50	5.60
11206-0073	0.73	3.00	38.00	4.50	5.60
11206-0074	0.74	3.00	38.00	4.50	5.60
11206-0075	0.75	3.00	38.00	4.50	5.60
11206-0076	0.76	3.00	38.00	5.00	6.30
11206-0077	0.77	3.00	38.00	5.00	6.30
11206-0078	0.78	3.00	38.00	5.00	6.30
11206-0079	0.79	3.00	38.00	5.00	6.30
11206-0080	0.80	3.00	38.00	5.00	6.30
11206-0081	0.81	3.00	38.00	5.00	6.30
11206-0082	0.82	3.00	38.00	5.00	6.30
11206-0083	0.83	3.00	38.00	5.00	6.30
11206-0084	0.84	3.00	38.00	5.00	6.30
11206-0085	0.85	3.00	38.00	5.00	6.30
11206-0086	0.86	3.00	38.00	5.70	7.10
11206-0087	0.87	3.00	38.00	5.70	7.10
11206-0088	0.88	3.00	38.00	5.70	7.10

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Micro-forets hélicoïdaux 6xØ corps Ø3

Micro twist drills 6xØ shank Ø3

Mikro-Spiralbohrer 6xØ Schaft Ø3

11206

Réf.	D1 h5	D2 h5	L1	L2	L3
11206-0089	0.89	3.00	38.00	5.70	7.10
11206-0090	0.90	3.00	38.00	5.70	7.10
11206-0091	0.91	3.00	38.00	5.70	7.10
11206-0092	0.92	3.00	38.00	5.70	7.10
11206-0093	0.93	3.00	38.00	5.70	7.10
11206-0094	0.94	3.00	38.00	5.70	7.10
11206-0095	0.95	3.00	38.00	5.70	7.10
11206-0096	0.96	3.00	38.00	6.50	8.00
11206-0097	0.97	3.00	38.00	6.50	8.00
11206-0098	0.98	3.00	38.00	6.50	8.00
11206-0099	0.99	3.00	38.00	6.50	8.00
11206-0100	1.00	3.00	38.00	6.50	8.00
11206-0101	1.01	3.00	38.00	6.50	8.00
11206-0102	1.02	3.00	38.00	6.50	8.00
11206-0103	1.03	3.00	38.00	6.50	8.00
11206-0104	1.04	3.00	38.00	6.50	8.00
11206-0105	1.05	3.00	38.00	6.50	8.00
11206-0106	1.06	3.00	38.00	6.50	9.00
11206-0107	1.07	3.00	38.00	6.50	9.00
11206-0108	1.08	3.00	38.00	6.50	9.00
11206-0109	1.09	3.00	38.00	6.50	9.00
11206-0110	1.10	3.00	38.00	6.50	9.00
11206-0111	1.11	3.00	38.00	6.50	9.00
11206-0112	1.12	3.00	38.00	6.50	9.00
11206-0113	1.13	3.00	38.00	6.50	9.00
11206-0114	1.14	3.00	38.00	6.50	9.00
11206-0115	1.15	3.00	38.00	6.50	9.00
11206-0116	1.16	3.00	38.00	8.20	10.00
11206-0117	1.17	3.00	38.00	8.20	10.00
11206-0118	1.18	3.00	38.00	8.20	10.00
11206-0119	1.19	3.00	38.00	8.20	10.00
11206-0120	1.20	3.00	38.00	8.20	10.00
11206-0121	1.21	3.00	38.00	8.20	10.00
11206-0122	1.22	3.00	38.00	8.20	10.00
11206-0123	1.23	3.00	38.00	8.20	10.00
11206-0124	1.24	3.00	38.00	8.20	10.00
11206-0125	1.25	3.00	38.00	8.20	10.00
11206-0126	1.26	3.00	38.00	8.20	10.00
11206-0127	1.27	3.00	38.00	8.20	10.00
11206-0128	1.28	3.00	38.00	8.20	10.00
11206-0129	1.29	3.00	38.00	8.20	10.00
11206-0130	1.30	3.00	38.00	8.20	10.00
11206-0131	1.31	3.00	38.00	9.20	11.20
11206-0132	1.32	3.00	38.00	9.20	11.20

11206

Micro-forets hélicoïdaux 6xØ corps Ø3

Micro twist drills 6xØ shank Ø3

Mikro-Spiralbohrer 6xØ Schaft Ø3

Réf.	D1 h5	D2 h5	L1	L2	L3
11206-0133	1.33	3.00	38.00	9.20	11.20
11206-0134	1.34	3.00	38.00	9.20	11.20
11206-0135	1.35	3.00	38.00	9.20	11.20
11206-0136	1.36	3.00	38.00	9.20	11.20
11206-0137	1.37	3.00	38.00	9.20	11.20
11206-0138	1.38	3.00	38.00	9.20	11.20
11206-0139	1.39	3.00	38.00	9.20	11.20
11206-0140	1.40	3.00	38.00	9.20	11.20
11206-0141	1.41	3.00	38.00	9.20	11.20
11206-0142	1.42	3.00	38.00	9.20	11.20
11206-0143	1.43	3.00	38.00	9.20	11.20
11206-0144	1.44	3.00	38.00	9.20	11.20
11206-0145	1.45	3.00	38.00	9.20	11.20
11206-0146	1.46	3.00	38.00	9.20	11.20
11206-0147	1.47	3.00	38.00	9.20	11.20
11206-0148	1.48	3.00	38.00	9.20	11.20
11206-0149	1.49	3.00	38.00	9.20	11.20
11206-0150	1.50	3.00	38.00	9.20	11.20
11206-0151	1.51	3.00	38.00	11.20	13.40
11206-0152	1.52	3.00	38.00	11.20	13.40
11206-0153	1.53	3.00	38.00	11.20	13.40
11206-0154	1.54	3.00	38.00	11.20	13.40
11206-0155	1.55	3.00	38.00	11.20	13.40
11206-0156	1.56	3.00	38.00	11.20	13.40
11206-0157	1.57	3.00	38.00	11.20	13.40
11206-0158	1.58	3.00	38.00	11.20	13.40
11206-0159	1.59	3.00	38.00	11.20	13.40
11206-0160	1.60	3.00	38.00	11.20	13.40
11206-0161	1.61	3.00	38.00	11.20	13.40
11206-0162	1.62	3.00	38.00	11.20	13.40
11206-0163	1.63	3.00	38.00	11.20	13.40
11206-0164	1.64	3.00	38.00	11.20	13.40
11206-0165	1.65	3.00	38.00	11.20	13.40
11206-0166	1.66	3.00	38.00	11.20	13.40
11206-0167	1.67	3.00	38.00	11.20	13.40
11206-0168	1.68	3.00	38.00	11.20	13.40
11206-0169	1.69	3.00	38.00	11.20	13.40
11206-0170	1.70	3.00	38.00	11.20	13.40
11206-0171	1.71	3.00	38.00	11.20	13.40
11206-0172	1.72	3.00	38.00	11.20	13.40
11206-0173	1.73	3.00	38.00	11.20	13.40
11206-0174	1.74	3.00	38.00	11.20	13.40
11206-0175	1.75	3.00	38.00	11.20	13.40
11206-0176	1.76	3.00	38.00	11.20	13.40

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Micro-forets hélicoïdaux 6xØ corps Ø3

Micro twist drills 6xØ shank Ø3

Mikro-Spiralbohrer 6xØ Schaft Ø3

11206

Réf.	D1 h5	D2 h5	L1	L2	L3
11206-0177	1.77	3.00	38.00	11.20	13.40
11206-0178	1.78	3.00	38.00	11.20	13.40
11206-0179	1.79	3.00	38.00	11.20	13.40
11206-0180	1.80	3.00	38.00	11.20	13.40
11206-0181	1.81	3.00	38.00	11.20	13.40
11206-0182	1.82	3.00	38.00	11.20	13.40
11206-0183	1.83	3.00	38.00	11.20	13.40
11206-0184	1.84	3.00	38.00	11.20	13.40
11206-0185	1.85	3.00	38.00	11.20	13.40
11206-0186	1.86	3.00	38.00	11.20	13.40
11206-0187	1.87	3.00	38.00	11.20	13.40
11206-0188	1.88	3.00	38.00	11.20	13.40
11206-0189	1.89	3.00	38.00	11.20	13.40
11206-0190	1.90	3.00	38.00	11.20	13.40
11206-0191	1.91	3.00	38.00	11.20	13.40
11206-0192	1.92	3.00	38.00	11.20	13.40
11206-0193	1.93	3.00	38.00	11.20	13.40
11206-0194	1.94	3.00	38.00	11.20	13.40
11206-0195	1.95	3.00	38.00	11.20	13.40
11206-0196	1.96	3.00	38.00	11.20	13.40
11206-0197	1.97	3.00	38.00	11.20	13.40
11206-0198	1.98	3.00	38.00	11.20	13.40
11206-0199	1.99	3.00	38.00	11.20	13.40
11206-0200	2.00	3.00	38.00	11.20	13.40
11206-0201	2.01	3.00	38.00	12.50	14.00
11206-0202	2.02	3.00	38.00	12.50	14.00
11206-0203	2.03	3.00	38.00	12.50	14.00
11206-0204	2.04	3.00	38.00	12.50	14.00
11206-0205	2.05	3.00	38.00	12.50	14.00
11206-0206	2.06	3.00	38.00	12.50	14.00
11206-0207	2.07	3.00	38.00	12.50	14.00
11206-0208	2.08	3.00	38.00	12.50	14.00
11206-0209	2.09	3.00	38.00	12.50	14.00
11206-0210	2.10	3.00	38.00	12.50	14.00
11206-0211	2.11	3.00	38.00	12.50	14.00
11206-0212	2.12	3.00	38.00	12.50	14.00
11206-0213	2.13	3.00	38.00	12.50	14.00
11206-0214	2.14	3.00	38.00	12.50	14.00
11206-0215	2.15	3.00	38.00	12.50	14.00
11206-0216	2.16	3.00	38.00	12.50	14.00
11206-0217	2.17	3.00	38.00	12.50	14.00
11206-0218	2.18	3.00	38.00	12.50	14.00
11206-0219	2.19	3.00	38.00	12.50	14.00
11206-0220	2.20	3.00	38.00	12.50	14.00

11206

Micro-forets hélicoïdaux 6xØ corps Ø3

Micro twist drills 6xØ shank Ø3

Mikro-Spiralbohrer 6xØ Schaft Ø3

Réf.	D1 h5	D2 h5	L1	L2	L3
11206-0221	2.21	3.00	38.00	12.50	14.00
11206-0222	2.22	3.00	38.00	12.50	14.00
11206-0223	2.23	3.00	38.00	12.50	14.00
11206-0224	2.24	3.00	38.00	12.50	14.00
11206-0225	2.25	3.00	38.00	12.50	14.00
11206-0226	2.26	3.00	38.00	12.50	14.00
11206-0227	2.27	3.00	38.00	12.50	14.00
11206-0228	2.28	3.00	38.00	12.50	14.00
11206-0229	2.29	3.00	38.00	12.50	14.00
11206-0230	2.30	3.00	38.00	12.50	14.00
11206-0231	2.31	3.00	38.00	12.50	14.00
11206-0232	2.32	3.00	38.00	12.50	14.00
11206-0233	2.33	3.00	38.00	12.50	14.00
11206-0234	2.34	3.00	38.00	12.50	14.00
11206-0235	2.35	3.00	38.00	12.50	14.00
11206-0236	2.36	3.00	38.00	12.50	14.00
11206-0237	2.37	3.00	38.00	12.50	14.00
11206-0238	2.38	3.00	38.00	12.50	14.00
11206-0239	2.39	3.00	38.00	12.50	14.00
11206-0240	2.40	3.00	38.00	12.50	14.00
11206-0241	2.41	3.00	38.00	12.50	14.00
11206-0242	2.42	3.00	38.00	12.50	14.00
11206-0243	2.43	3.00	38.00	12.50	14.00
11206-0244	2.44	3.00	38.00	12.50	14.00
11206-0245	2.45	3.00	38.00	12.50	14.00
11206-0246	2.46	3.00	38.00	12.50	14.00
11206-0247	2.47	3.00	38.00	12.50	14.00
11206-0248	2.48	3.00	38.00	12.50	14.00
11206-0249	2.49	3.00	38.00	12.50	14.00
11206-0250	2.50	3.00	38.00	14.00	17.00
11206-0251	2.51	3.00	38.00	14.00	17.00
11206-0252	2.52	3.00	38.00	14.00	17.00
11206-0253	2.53	3.00	38.00	14.00	17.00
11206-0254	2.54	3.00	38.00	14.00	17.00
11206-0255	2.55	3.00	38.00	14.00	17.00
11206-0256	2.56	3.00	38.00	14.00	17.00
11206-0257	2.57	3.00	38.00	14.00	17.00
11206-0258	2.58	3.00	38.00	14.00	17.00
11206-0259	2.59	3.00	38.00	14.00	17.00
11206-0260	2.60	3.00	38.00	14.00	17.00
11206-0261	2.61	3.00	38.00	14.00	17.00
11206-0262	2.62	3.00	38.00	14.00	17.00
11206-0263	2.63	3.00	38.00	14.00	17.00
11206-0264	2.64	3.00	38.00	14.00	17.00

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Micro-forets hélicoïdaux 6xØ corps Ø3

Micro twist drills 6xØ shank Ø3

Mikro-Spiralbohrer 6xØ Schaft Ø3

11206

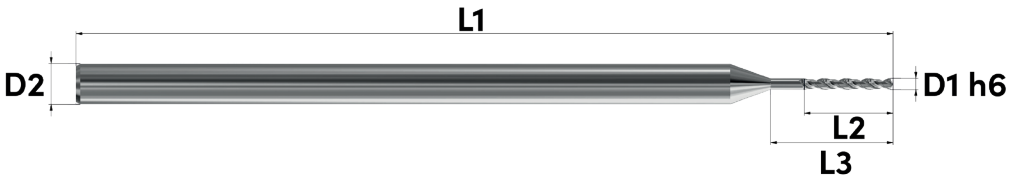
Réf.	D1 h5	D2 h5	L1	L2	L3
11206-0265	2.65	3.00	38.00	14.00	17.00
11206-0266	2.66	3.00	38.00	14.00	17.00
11206-0267	2.67	3.00	38.00	14.00	17.00
11206-0268	2.68	3.00	38.00	14.00	17.00
11206-0269	2.69	3.00	38.00	14.00	17.00
11206-0270	2.70	3.00	38.00	14.00	17.00
11206-0271	2.71	3.00	38.00	14.00	17.00
11206-0272	2.72	3.00	38.00	14.00	17.00
11206-0273	2.73	3.00	38.00	14.00	17.00
11206-0274	2.74	3.00	38.00	14.00	17.00
11206-0275	2.75	3.00	38.00	14.00	17.00
11206-0276	2.76	3.00	38.00	14.00	17.00
11206-0277	2.77	3.00	38.00	14.00	17.00
11206-0278	2.78	3.00	38.00	14.00	17.00
11206-0279	2.79	3.00	38.00	14.00	17.00
11206-0280	2.80	3.00	38.00	14.00	17.00
11206-0281	2.81	3.00	38.00	14.00	17.00
11206-0282	2.82	3.00	38.00	14.00	17.00
11206-0283	2.83	3.00	38.00	14.00	17.00
11206-0284	2.84	3.00	38.00	14.00	17.00
11206-0285	2.85	3.00	38.00	14.00	17.00
11206-0286	2.86	3.00	38.00	14.00	17.00
11206-0287	2.87	3.00	38.00	14.00	17.00
11206-0288	2.88	3.00	38.00	14.00	17.00
11206-0289	2.89	3.00	38.00	14.00	17.00
11206-0290	2.90	3.00	38.00	14.00	17.00
11206-0291	2.91	3.00	38.00	14.00	17.00
11206-0292	2.92	3.00	38.00	14.00	17.00
11206-0293	2.93	3.00	38.00	14.00	17.00
11206-0294	2.94	3.00	38.00	14.00	17.00
11206-0295	2.95	3.00	38.00	14.00	17.00
11206-0296	2.96	3.00	38.00	14.00	17.00
11206-0297	2.97	3.00	38.00	14.00	17.00
11206-0298	2.98	3.00	38.00	14.00	17.00
11206-0299	2.99	3.00	38.00	14.00	17.00
11206-0300	3.00	3.00	38.00	14.00	17.00

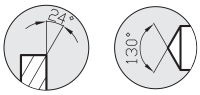
11210

Micro-forets hélicoïdaux 12xØ corps Ø3

Micro twist drills 12xØ shank Ø3

Mikro-Spiralbohrer 12xØ Schaft Ø3





Réf.	D1 h5	D2 h5	L1	L2	L3
11210-0020	0.20	3.00	38.00	2.40	3.50
11210-0021	0.21	3.00	38.00	2.50	3.50
11210-0022	0.22	3.00	38.00	2.70	3.50
11210-0023	0.23	3.00	38.00	2.80	3.50
11210-0024	0.24	3.00	38.00	2.90	4.00
11210-0025	0.25	3.00	38.00	3.00	4.00
11210-0026	0.26	3.00	38.00	3.10	4.00
11210-0027	0.27	3.00	38.00	3.30	4.00
11210-0028	0.28	3.00	38.00	3.40	4.50
11210-0029	0.29	3.00	38.00	3.50	4.50
11210-0030	0.30	3.00	38.00	3.60	4.50
11210-0031	0.31	3.00	38.00	3.70	4.50
11210-0032	0.32	3.00	38.00	3.90	5.00
11210-0033	0.33	3.00	38.00	4.00	5.00
11210-0034	0.34	3.00	38.00	4.10	5.00
11210-0035	0.35	3.00	38.00	4.20	5.00
11210-0036	0.36	3.00	38.00	4.30	5.50
11210-0037	0.37	3.00	38.00	4.50	5.50
11210-0038	0.38	3.00	38.00	4.60	5.50
11210-0039	0.39	3.00	38.00	4.70	5.50
11210-0040	0.40	3.00	38.00	4.80	6.00
11210-0041	0.41	3.00	38.00	4.90	6.00
11210-0042	0.42	3.00	38.00	5.10	6.00
11210-0043	0.43	3.00	38.00	5.20	6.00
11210-0044	0.44	3.00	38.00	5.30	6.50
11210-0045	0.45	3.00	38.00	5.40	6.50
11210-0046	0.46	3.00	38.00	5.50	6.50
11210-0047	0.47	3.00	38.00	5.70	6.50
11210-0048	0.48	3.00	38.00	5.80	7.00
11210-0049	0.49	3.00	38.00	5.90	7.00
11210-0050	0.50	3.00	38.00	6.00	7.00
11210-0051	0.51	3.00	38.00	6.10	7.00
11210-0052	0.52	3.00	38.00	6.30	7.50
11210-0053	0.53	3.00	38.00	6.40	7.50

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Micro-forets hélicoïdaux 12xØ corps Ø3

Micro twist drills 12xØ shank Ø3

Mikro-Spiralbohrer 12xØ Schaft Ø3

11210

Réf.	D1 h5	D2 h5	L1	L2	L3
11210-0054	0.54	3.00	38.00	6.50	7.50
11210-0055	0.55	3.00	38.00	6.60	7.50
11210-0056	0.56	3.00	38.00	6.70	8.00
11210-0057	0.57	3.00	38.00	6.90	8.00
11210-0058	0.58	3.00	38.00	7.00	8.00
11210-0059	0.59	3.00	38.00	7.10	8.00
11210-0060	0.60	3.00	38.00	7.20	9.00
11210-0061	0.61	3.00	38.00	7.30	9.00
11210-0062	0.62	3.00	38.00	7.50	9.00
11210-0063	0.63	3.00	38.00	7.60	9.00
11210-0064	0.64	3.00	38.00	7.70	9.50
11210-0065	0.65	3.00	38.00	7.80	9.50
11210-0066	0.66	3.00	38.00	7.90	9.50
11210-0067	0.67	3.00	38.00	8.10	9.50
11210-0068	0.68	3.00	38.00	8.20	10.00
11210-0069	0.69	3.00	38.00	8.30	10.00
11210-0070	0.70	3.00	38.00	8.40	10.00
11210-0071	0.71	3.00	38.00	8.50	10.00
11210-0072	0.72	3.00	38.00	8.70	10.50
11210-0073	0.73	3.00	38.00	8.80	10.50
11210-0074	0.74	3.00	38.00	8.90	10.50
11210-0075	0.75	3.00	38.00	9.00	10.50
11210-0076	0.76	3.00	38.00	9.10	11.00
11210-0077	0.77	3.00	38.00	9.30	11.00
11210-0078	0.78	3.00	38.00	9.40	11.00
11210-0079	0.79	3.00	38.00	9.50	11.00
11210-0080	0.80	3.00	38.00	9.60	11.50
11210-0081	0.81	3.00	38.00	9.70	11.50
11210-0082	0.82	3.00	38.00	9.90	11.50
11210-0083	0.83	3.00	38.00	10.00	11.50
11210-0084	0.84	3.00	38.00	10.10	12.00
11210-0085	0.85	3.00	38.00	10.30	12.00
11210-0086	0.86	3.00	38.00	10.50	12.00
11210-0087	0.87	3.00	38.00	10.60	12.00
11210-0088	0.88	3.00	38.00	10.70	12.50
11210-0089	0.89	3.00	38.00	10.80	12.50
11210-0090	0.90	3.00	38.00	10.90	12.50
11210-0091	0.91	3.00	38.00	11.10	12.50
11210-0092	0.92	3.00	38.00	11.20	13.00
11210-0093	0.93	3.00	38.00	11.30	13.00
11210-0094	0.94	3.00	38.00	11.40	13.00
11210-0095	0.95	3.00	38.00	11.50	13.00
11210-0096	0.96	3.00	38.00	11.70	13.50

11210

Micro-forets hélicoïdaux 12xØ corps Ø3

Micro twist drills 12xØ shank Ø3

Mikro-Spiralbohrer 12xØ Schaft Ø3

Réf.	D1 h5	D2 h5	L1	L2	L3
11210-0097	0.97	3.00	38.00	11.80	13.50
11210-0098	0.98	3.00	38.00	11.90	13.50
11210-0099	0.99	3.00	38.00	12.00	13.50
11210-0100	1.00	3.00	38.00	12.00	14.50
11210-0101	1.01	3.00	38.00	12.01	14.50
11210-0102	1.02	3.00	38.00	12.30	14.50
11210-0103	1.03	3.00	38.00	12.40	14.50
11210-0104	1.04	3.00	38.00	12.50	15.00
11210-0105	1.05	3.00	38.00	12.60	15.00
11210-0106	1.06	3.00	38.00	12.70	15.00
11210-0107	1.07	3.00	38.00	12.90	15.00
11210-0108	1.08	3.00	38.00	13.00	15.50
11210-0109	1.09	3.00	38.00	13.10	15.50
11210-0110	1.10	3.00	38.00	13.20	15.50
11210-0111	1.11	3.00	38.00	13.30	15.50
11210-0112	1.12	3.00	38.00	13.50	16.00
11210-0113	1.13	3.00	38.00	13.60	16.00
11210-0114	1.14	3.00	38.00	13.70	16.00
11210-0115	1.15	3.00	38.00	13.80	16.00
11210-0116	1.16	3.00	38.00	13.90	16.50
11210-0117	1.17	3.00	38.00	14.10	16.50
11210-0118	1.18	3.00	38.00	14.20	16.50
11210-0119	1.19	3.00	38.00	14.30	16.50
11210-0120	1.20	3.00	38.00	14.40	17.00
11210-0121	1.21	3.00	38.00	14.50	17.00
11210-0122	1.22	3.00	38.00	14.70	17.00
11210-0123	1.23	3.00	38.00	14.80	17.00
11210-0124	1.24	3.00	38.00	14.90	17.50
11210-0125	1.25	3.00	38.00	15.00	17.50
11210-0126	1.26	3.00	50.00	15.10	17.50
11210-0127	1.27	3.00	50.00	15.30	17.50
11210-0128	1.28	3.00	50.00	15.40	18.00
11210-0129	1.29	3.00	50.00	15.50	18.00
11210-0130	1.30	3.00	50.00	15.60	18.00
11210-0131	1.31	3.00	50.00	15.70	18.00
11210-0132	1.32	3.00	50.00	15.90	18.50
11210-0133	1.33	3.00	50.00	16.00	18.50
11210-0134	1.34	3.00	50.00	16.10	18.50
11210-0135	1.35	3.00	50.00	16.20	18.50
11210-0136	1.36	3.00	50.00	16.30	19.00
11210-0137	1.37	3.00	50.00	16.50	19.00
11210-0138	1.38	3.00	50.00	16.60	19.00
11210-0139	1.39	3.00	50.00	16.70	19.00

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Micro-forets hélicoïdaux 12xØ corps Ø3

Micro twist drills 12xØ shank Ø3

Mikro-Spiralbohrer 12xØ Schaft Ø3

11210

Réf.	D1 h5	D2 h5	L1	L2	L3
11210-0140	1.40	3.00	50.00	16.80	19.50
11210-0141	1.41	3.00	50.00	16.90	19.50
11210-0142	1.42	3.00	50.00	17.10	19.50
11210-0143	1.43	3.00	50.00	17.20	19.50
11210-0144	1.44	3.00	50.00	17.30	20.00
11210-0145	1.45	3.00	50.00	17.40	20.00
11210-0146	1.46	3.00	50.00	17.50	20.00
11210-0147	1.47	3.00	50.00	17.70	20.00
11210-0148	1.48	3.00	50.00	17.80	20.50
11210-0149	1.49	3.00	50.00	17.90	20.50
11210-0150	1.50	3.00	50.00	18.00	21.00
11210-0151	1.51	3.00	50.00	18.10	21.00
11210-0152	1.52	3.00	50.00	18.30	21.00
11210-0153	1.53	3.00	50.00	18.40	21.00
11210-0154	1.54	3.00	50.00	18.50	21.50
11210-0155	1.55	3.00	50.00	18.60	21.50
11210-0156	1.56	3.00	50.00	18.70	21.50
11210-0157	1.57	3.00	50.00	18.90	21.50
11210-0158	1.58	3.00	50.00	19.00	22.00
11210-0159	1.59	3.00	50.00	19.10	22.00
11210-0160	1.60	3.00	50.00	19.20	22.00
11210-0161	1.61	3.00	50.00	19.30	22.00
11210-0162	1.62	3.00	50.00	19.40	22.50
11210-0163	1.63	3.00	50.00	19.60	22.50
11210-0164	1.64	3.00	50.00	19.70	22.50
11210-0165	1.65	3.00	50.00	19.80	22.50
11210-0166	1.66	3.00	50.00	19.90	23.00
11210-0167	1.67	3.00	50.00	20.10	23.00
11210-0168	1.68	3.00	50.00	20.20	23.00
11210-0169	1.69	3.00	50.00	20.30	23.00
11210-0170	1.70	3.00	50.00	20.40	23.50
11210-0171	1.71	3.00	50.00	20.50	23.50
11210-0172	1.72	3.00	50.00	20.70	23.50
11210-0173	1.73	3.00	50.00	20.80	23.50
11210-0174	1.74	3.00	50.00	20.90	24.00
11210-0175	1.75	3.00	50.00	21.00	24.00
11210-0176	1.76	3.00	50.00	21.10	24.00
11210-0177	1.77	3.00	50.00	21.30	24.00
11210-0178	1.78	3.00	50.00	21.40	24.50
11210-0179	1.79	3.00	50.00	21.50	24.50
11210-0180	1.80	3.00	50.00	21.60	25.00
11210-0181	1.81	3.00	50.00	21.70	25.00
11210-0182	1.82	3.00	50.00	21.90	25.00

11210

Micro-forets hélicoïdaux 12xØ corps Ø3

Micro twist drills 12xØ shank Ø3

Mikro-Spiralbohrer 12xØ Schaft Ø3

Réf.	D1 h5	D2 h5	L1	L2	L3
11210-0183	1.83	3.00	50.00	22.00	25.00
11210-0184	1.84	3.00	50.00	22.10	25.50
11210-0185	1.85	3.00	50.00	22.20	25.50
11210-0186	1.86	3.00	50.00	22.30	25.50
11210-0187	1.87	3.00	50.00	22.50	25.50
11210-0188	1.88	3.00	50.00	22.60	26.00
11210-0189	1.89	3.00	50.00	22.70	26.00
11210-0190	1.90	3.00	50.00	22.80	26.00
11210-0191	1.91	3.00	50.00	22.90	26.00
11210-0192	1.92	3.00	50.00	23.10	26.50
11210-0193	1.93	3.00	50.00	23.20	26.50
11210-0194	1.94	3.00	50.00	23.30	26.50
11210-0195	1.95	3.00	50.00	23.40	26.50
11210-0196	1.96	3.00	50.00	23.50	27.00
11210-0197	1.97	3.00	50.00	23.70	27.00
11210-0198	1.98	3.00	50.00	23.80	27.00
11210-0199	1.99	3.00	50.00	23.90	27.00
11210-0200	2.00	3.00	50.00	24.00	27.00
11210-0201	2.01	3.00	60.00	24.10	27.50
11210-0202	2.02	3.00	60.00	24.20	27.50
11210-0203	2.03	3.00	60.00	24.40	27.50
11210-0204	2.04	3.00	60.00	24.50	27.50
11210-0205	2.05	3.00	60.00	24.60	28.00
11210-0206	2.06	3.00	60.00	24.70	28.00
11210-0207	2.07	3.00	60.00	24.80	28.00
11210-0208	2.08	3.00	60.00	25.00	28.00
11210-0209	2.09	3.00	60.00	25.10	28.50
11210-0210	2.10	3.00	60.00	25.20	28.50
11210-0211	2.11	3.00	60.00	25.30	28.50
11210-0212	2.12	3.00	60.00	25.40	28.50
11210-0213	2.13	3.00	60.00	25.60	29.00
11210-0214	2.14	3.00	60.00	25.70	29.00
11210-0215	2.15	3.00	60.00	25.80	29.00
11210-0216	2.16	3.00	60.00	25.90	29.00
11210-0217	2.17	3.00	60.00	26.10	29.50
11210-0218	2.18	3.00	60.00	26.20	29.50
11210-0219	2.19	3.00	60.00	26.30	29.50
11210-0220	2.20	3.00	60.00	26.40	29.50
11210-0221	2.21	3.00	60.00	26.50	30.00
11210-0222	2.22	3.00	60.00	26.70	30.00
11210-0223	2.23	3.00	60.00	26.80	30.00
11210-0224	2.24	3.00	60.00	26.90	30.00
11210-0225	2.25	3.00	60.00	27.00	30.50

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Micro-forets hélicoïdaux 12xØ corps Ø3

Micro twist drills 12xØ shank Ø3

Mikro-Spiralbohrer 12xØ Schaft Ø3

11210

Réf.	D1 h5	D2 h5	L1	L2	L3
11210-0226	2.26	3.00	60.00	27.10	30.50
11210-0227	2.27	3.00	60.00	27.20	30.50
11210-0228	2.28	3.00	60.00	27.40	30.50
11210-0229	2.29	3.00	60.00	27.50	31.00
11210-0230	2.30	3.00	60.00	27.60	31.00
11210-0231	2.31	3.00	65.00	27.70	31.00
11210-0232	2.32	3.00	65.00	27.80	31.00
11210-0233	2.33	3.00	65.00	28.00	31.50
11210-0234	2.34	3.00	65.00	28.10	31.50
11210-0235	2.35	3.00	65.00	28.20	31.50
11210-0236	2.36	3.00	65.00	28.30	31.50
11210-0237	2.37	3.00	65.00	28.40	32.00
11210-0238	2.38	3.00	65.00	28.60	32.00
11210-0239	2.39	3.00	65.00	28.70	32.00
11210-0240	2.40	3.00	65.00	28.80	32.00
11210-0241	2.41	3.00	65.00	28.90	33.00
11210-0242	2.42	3.00	65.00	29.00	33.00
11210-0243	2.43	3.00	65.00	29.20	33.00
11210-0244	2.44	3.00	65.00	29.30	33.00
11210-0245	2.45	3.00	65.00	29.40	33.00
11210-0246	2.46	3.00	65.00	29.50	33.50
11210-0247	2.47	3.00	65.00	29.60	33.50
11210-0248	2.48	3.00	65.00	29.80	33.50
11210-0249	2.49	3.00	65.00	29.90	33.50
11210-0250	2.50	3.00	65.00	30.00	34.00
11210-0251	2.51	3.00	65.00	30.10	34.00
11210-0252	2.52	3.00	65.00	30.20	34.00
11210-0253	2.53	3.00	65.00	30.40	34.00
11210-0254	2.54	3.00	65.00	30.50	34.50
11210-0255	2.55	3.00	65.00	30.60	34.50
11210-0256	2.56	3.00	65.00	30.70	34.50
11210-0257	2.57	3.00	65.00	30.80	34.50
11210-0258	2.58	3.00	65.00	31.00	35.00
11210-0259	2.59	3.00	65.00	31.10	35.00
11210-0260	2.60	3.00	65.00	31.20	35.00
11210-0261	2.61	3.00	65.00	31.30	35.00
11210-0262	2.62	3.00	65.00	31.40	35.50
11210-0263	2.63	3.00	65.00	31.60	35.50
11210-0264	2.64	3.00	65.00	31.70	35.50
11210-0265	2.65	3.00	65.00	31.80	35.50
11210-0266	2.66	3.00	65.00	31.90	36.00
11210-0267	2.67	3.00	65.00	32.00	36.00
11210-0268	2.68	3.00	65.00	32.20	36.00

11210

Micro-forets hélicoïdaux 12xØ corps Ø3

Micro twist drills 12xØ shank Ø3

Mikro-Spiralbohrer 12xØ Schaft Ø3

Réf.	D1 h5	D2 h5	L1	L2	L3
11210-0269	2.69	3.00	65.00	32.30	36.00
11210-0270	2.70	3.00	65.00	32.40	36.50
11210-0271	2.71	3.00	65.00	32.50	36.50
11210-0272	2.72	3.00	65.00	32.60	36.50
11210-0273	2.73	3.00	65.00	32.80	36.50
11210-0274	2.74	3.00	65.00	32.90	37.00
11210-0275	2.75	3.00	65.00	33.00	37.00
11210-0276	2.76	3.00	65.00	33.10	37.00
11210-0277	2.77	3.00	65.00	33.20	37.00
11210-0278	2.78	3.00	65.00	33.40	37.50
11210-0279	2.79	3.00	65.00	33.50	37.50
11210-0280	2.80	3.00	65.00	33.60	37.50
11210-0281	2.81	3.00	65.00	33.70	37.50
11210-0282	2.82	3.00	65.00	33.80	38.00
11210-0283	2.83	3.00	65.00	34.00	38.00
11210-0284	2.84	3.00	65.00	34.10	38.00
11210-0285	2.85	3.00	65.00	34.20	38.00
11210-0286	2.86	3.00	65.00	34.30	38.50
11210-0287	2.87	3.00	65.00	34.40	38.50
11210-0288	2.88	3.00	65.00	34.60	38.50
11210-0289	2.89	3.00	65.00	34.70	38.50
11210-0290	2.90	3.00	65.00	34.80	39.00
11210-0291	2.91	3.00	65.00	34.90	39.00
11210-0292	2.92	3.00	65.00	35.00	39.00
11210-0293	2.93	3.00	65.00	35.20	39.00
11210-0294	2.94	3.00	65.00	35.30	39.50
11210-0295	2.95	3.00	65.00	35.40	39.50
11210-0296	2.96	3.00	65.00	35.50	39.50
11210-0297	2.97	3.00	65.00	35.60	39.50
11210-0298	2.98	3.00	65.00	35.80	40.00
11210-0299	2.99	3.00	65.00	35.90	40.00
11210-0300	3.00	3.00	65.00	36.00	40.00

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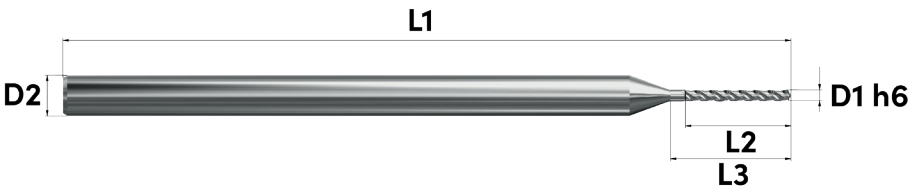
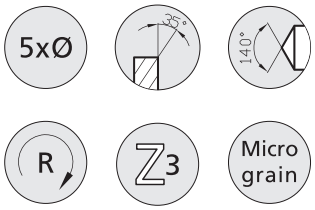
Micro-forets hélicoïdaux 3 lèvres 5xØ

Micro twist drills 3 flutes 5xØ

Mikro-Spiralbohrer 3 Lippen 5xØ

11303





Réf.	D1 h6	D2 h5	L1	L2	L3
11303-0020	0.20	3.00	38.00	1.00	1.50
11303-0021	0.21	3.00	38.00	1.05	1.50
11303-0022	0.22	3.00	38.00	1.10	1.60
11303-0023	0.23	3.00	38.00	1.15	1.60
11303-0024	0.24	3.00	38.00	1.20	1.70
11303-0025	0.25	3.00	38.00	1.25	1.70
11303-0026	0.26	3.00	38.00	1.30	1.80
11303-0027	0.27	3.00	38.00	1.35	1.80
11303-0028	0.28	3.00	38.00	1.40	1.90
11303-0029	0.29	3.00	38.00	1.45	1.90
11303-0030	0.30	3.00	38.00	1.50	2.00
11303-0031	0.31	3.00	38.00	1.55	2.00
11303-0032	0.32	3.00	38.00	1.60	2.10
11303-0033	0.33	3.00	38.00	1.65	2.10
11303-0034	0.34	3.00	38.00	1.70	2.20
11303-0035	0.35	3.00	38.00	1.75	2.20
11303-0036	0.36	3.00	38.00	1.80	2.30
11303-0037	0.37	3.00	38.00	1.85	2.30
11303-0038	0.38	3.00	38.00	1.90	2.40
11303-0039	0.39	3.00	38.00	1.95	2.40
11303-0040	0.40	3.00	38.00	2.00	2.50
11303-0041	0.41	3.00	38.00	2.05	2.50
11303-0042	0.42	3.00	38.00	2.10	2.60
11303-0043	0.43	3.00	38.00	2.15	2.60
11303-0044	0.44	3.00	38.00	2.20	2.70
11303-0045	0.45	3.00	38.00	2.25	2.70
11303-0046	0.46	3.00	38.00	2.30	2.80
11303-0047	0.47	3.00	38.00	2.35	2.80
11303-0048	0.48	3.00	38.00	2.40	2.90
11303-0049	0.49	3.00	38.00	2.45	2.90
11303-0050	0.50	3.00	38.00	2.50	3.00
11303-0051	0.51	3.00	38.00	2.55	3.00
11303-0052	0.52	3.00	38.00	2.60	3.10
11303-0053	0.53	3.00	38.00	2.65	3.10
11303-0054	0.54	3.00	38.00	2.70	3.20
11303-0055	0.55	3.00	38.00	2.75	3.20

11303

Micro-forets hélicoïdaux 3 lèvres 5xØ

Micro twist drills 3 flutes 5xØ

Mikro-Spiralbohrer 3 Lippen 5xØ

Réf.	D1 h6	D2 h5	L1	L2	L3
11303-0056	0.56	3.00	38.00	2.80	3.30
11303-0057	0.57	3.00	38.00	2.85	3.30
11303-0058	0.58	3.00	38.00	2.90	3.40
11303-0059	0.59	3.00	38.00	2.95	3.40
11303-0060	0.60	3.00	38.00	3.00	3.50
11303-0061	0.61	3.00	38.00	3.05	3.50
11303-0062	0.62	3.00	38.00	3.10	3.60
11303-0063	0.63	3.00	38.00	3.15	3.60
11303-0064	0.64	3.00	38.00	3.20	3,70
11303-0065	0.65	3.00	38.00	3.25	3,70
11303-0066	0.66	3.00	38.00	3.30	3.80
11303-0067	0.67	3.00	38.00	3.35	3.80
11303-0068	0.68	3.00	38.00	3.40	3.90
11303-0069	0.69	3.00	38.00	3.45	3.90
11303-0070	0.70	3.00	38.00	3.50	4.00
11303-0071	0.71	3.00	38.00	3.55	4.00
11303-0072	0.72	3.00	38.00	3.60	4.10
11303-0073	0.73	3.00	38.00	3.65	4.10
11303-0074	0.74	3.00	38.00	3.70	4.20
11303-0075	0.75	3.00	38.00	3.75	4.20
11303-0076	0.76	3.00	38.00	3.80	4.30
11303-0077	0.77	3.00	38.00	3.85	4.30
11303-0078	0.78	3.00	38.00	3.90	4.40
11303-0079	0.79	3.00	38.00	3.95	4.40
11303-0080	0.80	3.00	38.00	4.00	4.50
11303-0081	0.81	3.00	38.00	4.05	4.50
11303-0082	0.82	3.00	38.00	4.10	4.60
11303-0083	0.83	3.00	38.00	4.15	4.60
11303-0084	0.84	3.00	38.00	4.20	4.70
11303-0085	0.85	3.00	38.00	4.25	4.70
11303-0086	0.86	3.00	38.00	4.30	4.80
11303-0087	0.87	3.00	38.00	4.35	4.80
11303-0088	0.88	3.00	38.00	4.40	4.90
11303-0089	0.89	3.00	38.00	4.45	4.90
11303-0090	0.90	3.00	38.00	4.50	5.00
11303-0091	0.91	3.00	38.00	4.55	5.00
11303-0092	0.92	3.00	38.00	4.60	5.10
11303-0093	0.93	3.00	38.00	4.65	5.10
11303-0094	0.94	3.00	38.00	4.70	5.20
11303-0095	0.95	3.00	38.00	4.75	5.20
11303-0096	0.96	3.00	38.00	4.80	5.30
11303-0097	0.97	3.00	38.00	4.85	5.30
11303-0098	0.98	3.00	38.00	4.90	5.40
11303-0099	0.99	3.00	38.00	4.95	5.40

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Micro-forets hélicoïdaux 3 lèvres 5xØ

Micro twist drills 3 flutes 5xØ

Mikro-Spiralbohrer 3 Lippen 5xØ

11303

Réf.	D1 h6	D2 h5	L1	L2	L3
11303-0100	1.00	3.00	38.00	5.00	6.50
11303-0101	1.01	3.00	38.00	5.05	6.50
11303-0102	1.02	3.00	38.00	5.10	6.50
11303-0103	1.03	3.00	38.00	5.15	6.50
11303-0104	1.04	3.00	38.00	5.20	6.50
11303-0105	1.05	3.00	38.00	5.25	6.50
11303-0106	1.06	3.00	38.00	5.30	6.50
11303-0107	1.07	3.00	38.00	5.35	7.50
11303-0108	1.08	3.00	38.00	5.40	7.50
11303-0109	1.09	3.00	38.00	5.45	7.50
11303-0110	1.10	3.00	38.00	5.50	7.50
11303-0111	1.11	3.00	38.00	5.55	7.50
11303-0112	1.12	3.00	38.00	5.60	7.50
11303-0113	1.13	3.00	38.00	5.65	7.50
11303-0114	1.14	3.00	38.00	5.70	7.50
11303-0115	1.15	3.00	38.00	5.75	7.50
11303-0116	1.16	3.00	38.00	5.80	7.50
11303-0117	1.17	3.00	38.00	5.85	7.50
11303-0118	1.18	3.00	38.00	5.90	8.50
11303-0119	1.19	3.00	38.00	5.95	8.50
11303-0120	1.20	3.00	38.00	6.00	8.50
11303-0121	1.21	3.00	38.00	6.05	8.50
11303-0122	1.22	3.00	38.00	6.10	8.50
11303-0123	1.23	3.00	38.00	6.15	8.50
11303-0124	1.24	3.00	38.00	6.20	8.50
11303-0125	1.25	3.00	38.00	6.25	8.50
11303-0126	1.26	3.00	38.00	6.30	8.50
11303-0127	1.27	3.00	38.00	6.35	8.50
11303-0128	1.28	3.00	38.00	6.40	8.50
11303-0129	1.29	3.00	38.00	6.45	8.50
11303-0130	1.30	3.00	38.00	6.50	8.50
11303-0131	1.31	3.00	38.00	6.55	8.50
11303-0132	1.32	3.00	38.00	6.60	8.50
11303-0133	1.33	3.00	38.00	6.65	9.50
11303-0134	1.34	3.00	38.00	6.70	9.50
11303-0135	1.35	3.00	38.00	6.75	9.50
11303-0136	1.36	3.00	38.00	6.80	9.50
11303-0137	1.37	3.00	38.00	6.85	9.50
11303-0138	1.38	3.00	38.00	6.90	9.50
11303-0139	1.39	3.00	38.00	6.95	9.50
11303-0140	1.40	3.00	38.00	7.00	9.50
11303-0141	1.41	3.00	38.00	7.05	9.50
11303-0142	1.42	3.00	38.00	7.10	9.50
11303-0143	1.43	3.00	38.00	7.15	9.50

11303

Micro-forets hélicoïdaux 3 lèvres 5xØ

Micro twist drills 3 flutes 5xØ

Mikro-Spiralbohrer 3 Lippen 5xØ

Réf.	D1 h6	D2 k5	L1	L2	L3
11303-0144	1.44	3.00	38.00	7.20	9.50
11303-0145	1.45	3.00	38.00	7.25	9.50
11303-0146	1.46	3.00	38.00	7.30	9.50
11303-0147	1.47	3.00	38.00	7.35	9.50
11303-0148	1.48	3.00	38.00	7.40	9.50
11303-0149	1.49	3.00	38.00	7.45	9.50
11303-0150	1.50	3.00	38.00	7.50	9.50
11303-0151	1.51	3.00	38.00	7.55	10.50
11303-0152	1.52	3.00	38.00	7.60	10.50
11303-0153	1.53	3.00	38.00	7.65	10.50
11303-0154	1.54	3.00	38.00	7.70	10.50
11303-0155	1.55	3.00	38.00	7.75	10.50
11303-0156	1.56	3.00	38.00	7.80	10.50
11303-0157	1.57	3.00	38.00	7.85	10.50
11303-0158	1.58	3.00	38.00	7.90	10.50
11303-0159	1.59	3.00	38.00	7.95	10.50
11303-0160	1.60	3.00	38.00	8.00	10.50
11303-0161	1.61	3.00	38.00	8.05	10.50
11303-0162	1.62	3.00	38.00	8.10	10.50
11303-0163	1.63	3.00	38.00	8.15	10.50
11303-0164	1.64	3.00	38.00	8.20	10.50
11303-0165	1.65	3.00	38.00	8.25	10.50
11303-0166	1.66	3.00	38.00	8.30	10.50
11303-0167	1.67	3.00	38.00	8.35	10.50
11303-0168	1.68	3.00	38.00	8.40	10.50
11303-0169	1.69	3.00	38.00	8.45	10.50
11303-0170	1.70	3.00	38.00	8.50	10.50
11303-0171	1.71	3.00	38.00	8.55	11.50
11303-0172	1.72	3.00	38.00	8.60	11.50
11303-0173	1.73	3.00	38.00	8.65	11.50
11303-0174	1.74	3.00	38.00	8.70	11.50
11303-0175	1.75	3.00	38.00	8.75	11.50
11303-0176	1.76	3.00	38.00	8.80	11.50
11303-0177	1.77	3.00	38.00	8.85	11.50
11303-0178	1.78	3.00	38.00	8.90	11.50
11303-0179	1.79	3.00	38.00	8.95	11.50
11303-0180	1.80	3.00	38.00	9.00	11.50
11303-0181	1.81	3.00	38.00	9.05	11.50
11303-0182	1.82	3.00	38.00	9.10	11.50
11303-0183	1.83	3.00	38.00	9.15	11.50
11303-0184	1.84	3.00	38.00	9.20	11.50
11303-0185	1.85	3.00	38.00	9.25	11.50
11303-0186	1.86	3.00	38.00	9.30	11.50
11303-0187	1.87	3.00	38.00	9.35	11.50

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Micro-forets hélicoïdaux 3 lèvres 5xØ

Micro twist drills 3 flutes 5xØ

Mikro-Spiralbohrer 3 Lippen 5xØ

11303

Réf.	D1 h6	D2 h5	L1	L2	L3
11303-0188	1.88	3.00	38.00	9.40	11.50
11303-0189	1.89	3.00	38.00	9.45	11.50
11303-0190	1.90	3.00	38.00	9.50	11.50
11303-0191	1.91	3.00	38.00	9.55	12.50
11303-0192	1.92	3.00	38.00	9.60	12.50
11303-0193	1.93	3.00	38.00	9.65	12.50
11303-0194	1.94	3.00	38.00	9.70	12.50
11303-0195	1.95	3.00	38.00	9.75	12.50
11303-0196	1.96	3.00	38.00	9.80	12.50
11303-0197	1.97	3.00	38.00	9.85	12.50
11303-0198	1.98	3.00	38.00	9.90	12.50
11303-0199	1.99	3.00	38.00	9.95	12.50
11303-0200	2.00	3.00	38.00	10.00	12.50
11303-0201	2.01	3.00	38.00	10.05	12.50
11303-0202	2.02	3.00	38.00	10.10	12.50
11303-0203	2.03	3.00	38.00	10.15	12.50
11303-0204	2.04	3.00	38.00	10.20	12.50
11303-0205	2.05	3.00	38.00	10.25	12.50
11303-0206	2.06	3.00	38.00	10.30	12.50
11303-0207	2.07	3.00	38.00	10.35	12.50
11303-0208	2.08	3.00	38.00	10.40	12.50
11303-0209	2.09	3.00	38.00	10.45	12.50
11303-0210	2.10	3.00	38.00	10.50	12.50
11303-0211	2.11	3.00	38.00	10.55	12.50
11303-0212	2.12	3.00	38.00	10.60	12.50
11303-0213	2.13	3.00	38.00	10.65	13.50
11303-0214	2.14	3.00	38.00	10.70	13.50
11303-0215	2.15	3.00	38.00	10.75	13.50
11303-0216	2.16	3.00	38.00	10.80	13.50
11303-0217	2.17	3.00	38.00	10.85	13.50
11303-0218	2.18	3.00	38.00	10.90	13.50
11303-0219	2.19	3.00	38.00	10.95	13.50
11303-0220	2.20	3.00	38.00	11.00	13.50
11303-0221	2.21	3.00	38.00	11.05	13.50
11303-0222	2.22	3.00	38.00	11.10	13.50
11303-0223	2.23	3.00	38.00	11.15	13.50
11303-0224	2.24	3.00	38.00	11.20	13.50
11303-0225	2.25	3.00	38.00	11.25	13.50
11303-0226	2.26	3.00	38.00	11.30	13.50
11303-0227	2.27	3.00	38.00	11.35	13.50
11303-0228	2.28	3.00	38.00	11.40	13.50
11303-0229	2.29	3.00	38.00	11.45	13.50
11303-0230	2.30	3.00	38.00	11.50	13.50

11303

Micro-forets hélicoïdaux 3 lèvres 5xØ

Micro twist drills 3 flutes 5xØ

Mikro-Spiralbohrer 3 Lippen 5xØ

Réf.	D1 h6	D2 h5	L1	L2	L3
11303-0231	2.31	3.00	38.00	11.55	13.50
11303-0232	2.32	3.00	38.00	11.60	13.50
11303-0233	2.33	3.00	38.00	11.65	13.50
11303-0234	2.34	3.00	38.00	11.70	13.50
11303-0235	2.35	3.00	38.00	11.75	13.50
11303-0236	2.36	3.00	38.00	11.80	13.50
11303-0237	2.37	3.00	38.00	11.85	14.50
11303-0238	2.38	3.00	38.00	11.90	14.50
11303-0239	2.39	3.00	38.00	11.95	14.50
11303-0240	2.40	3.00	38.00	12.00	14.50
11303-0241	2.41	3.00	38.00	12.05	14.50
11303-0242	2.42	3.00	38.00	12.10	14.50
11303-0243	2.43	3.00	38.00	12.15	14.50
11303-0244	2.44	3.00	38.00	12.20	14.50
11303-0245	2.45	3.00	38.00	12.25	14.50
11303-0246	2.46	3.00	38.00	12.30	14.50
11303-0247	2.47	3.00	38.00	12.35	14.50
11303-0248	2.48	3.00	38.00	12.40	14.50
11303-0249	2.49	3.00	38.00	12.45	14.50
11303-0250	2.50	3.00	38.00	12.50	14.50
11303-0251	2.51	3.00	38.00	12.55	14.50
11303-0252	2.52	3.00	38.00	12.60	14.50
11303-0253	2.53	3.00	38.00	12.65	14.50
11303-0254	2.54	3.00	38.00	12.70	14.50
11303-0255	2.55	3.00	38.00	12.75	14.50
11303-0256	2.56	3.00	38.00	12.80	14.50
11303-0257	2.57	3.00	38.00	12.85	14.50
11303-0258	2.58	3.00	38.00	12.90	14.50
11303-0259	2.59	3.00	38.00	12.95	14.50
11303-0260	2.60	3.00	38.00	13.00	14.50
11303-0261	2.61	3.00	38.00	13.05	14.50
11303-0262	2.62	3.00	38.00	13.10	14.50
11303-0263	2.63	3.00	38.00	13.15	14.50
11303-0264	2.64	3.00	38.00	13.20	14.50
11303-0265	2.65	3.00	38.00	13.25	14.50
11303-0266	2.66	3.00	38.00	13.30	16.50
11303-0267	2.67	3.00	38.00	13.35	16.50
11303-0268	2.68	3.00	38.00	13.40	16.50
11303-0269	2.69	3.00	38.00	13.45	16.50
11303-0270	2.70	3.00	38.00	13.50	16.50
11303-0271	2.71	3.00	38.00	13.55	16.50
11303-0272	2.72	3.00	38.00	13.60	16.50
11303-0273	2.73	3.00	38.00	13.65	16.50

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Micro-forets hélicoïdaux 3 lèvres 5xØ

Micro twist drills 3 flutes 5xØ

Mikro-Spiralbohrer 3 Lippen 5xØ

11303

Réf.	D1 h6	D2 h5	L1	L2	L3
11303-0274	2.74	3.00	38.00	13.70	16.50
11303-0275	2.75	3.00	38.00	13.75	16.50
11303-0276	2.76	3.00	38.00	13.80	16.50
11303-0277	2.77	3.00	38.00	13.85	16.50
11303-0278	2.78	3.00	38.00	13.90	16.50
11303-0279	2.79	3.00	38.00	13.95	16.50
11303-0280	2.80	3.00	38.00	14.00	16.50
11303-0281	2.81	3.00	38.00	14.05	16.50
11303-0282	2.82	3.00	38.00	14.10	16.50
11303-0283	2.83	3.00	38.00	14.15	16.50
11303-0284	2.84	3.00	38.00	14.20	16.50
11303-0285	2.85	3.00	38.00	14.25	16.50
11303-0286	2.86	3.00	38.00	14.30	16.50
11303-0287	2.87	3.00	38.00	14.35	16.50
11303-0288	2.88	3.00	38.00	14.40	16.50
11303-0289	2.89	3.00	38.00	14.45	16.50
11303-0290	2.90	3.00	38.00	14.50	16.50
11303-0291	2.91	3.00	38.00	14.55	16.50
11303-0292	2.92	3.00	38.00	14.60	16.50
11303-0293	2.93	3.00	38.00	14.65	16.50
11303-0294	2.94	3.00	38.00	14.70	16.50
11303-0295	2.95	3.00	38.00	14.75	16.50
11303-0296	2.96	3.00	38.00	14.80	16.50
11303-0297	2.97	3.00	38.00	14.85	16.50
11303-0298	2.98	3.00	38.00	14.90	16.50
11303-0299	2.99	3.00	38.00	14.95	16.50

PERÇAGE

CENTREURS P.3

FORETS P.4

FRAISAGE

FRAISES EN BOUT P.56 / **FRAISES Z1** P.56 / **FRAISES Z2** P.58
FRAISES Z3 P.66 / **FRAISES Z4** P.77 / **FRAISES Z6-8** P.80
FRAISES HÉMISPHÉRIQUES P.81 / **FRAISES À ANGLER** P.86 / **FRAISES À GRAVER** P.89

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FRAISES À PLAQUETTES

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ÉCROUS / PINCES DE SERRAGES

ÉCROUS P.122

PINCES DE SERRAGES P.123

TOURNAGE

FRAISAGE/GRAVAGE - MILLING/ENGRAVING - FRÄSEN/ GRAVIEREN

CONDITIONS DE COUPE - CUTTING CONDITIONS - SCHNITTDATEN

FRAISAGE

Matière	Acier non allié / faiblement allié < 600 N/mm2 Fonte grise		Aciers et fontes fortement alliés 700 – 1500 N/mm2 Acier inoxydable < 1500 N/mm2		Alliages de cuivre / Or / Argent		Aluminium /alliages d'aluminium et Plastique		Alliages spéciaux, Inconel, Nimonic, Hastelloy acier inoxydable réfractaire		Titane	
Werkstoff	Unlegierte/niedrig legierte Stähle < 600 N/mm2 Gusseisen		Hochlegierte Stähle 700 – 1500 N/mm2 / Rostfreie Stähle < 1500 N/mm2		Kupfer-Kupferlegierung / Gold / Silber		Aluminium / Aluminiumlegierung / Kunststoff		Sonderlegierungen Inconel, Nimonic, Hastelloy warmfeste rostfreie Stähle		Titan, Titanle-gierung	
Material	Unalloyed steel / low alloyed steel < 600 N/mm2 Grey cast iron		High alloyed steel 700 – 1500 N/mm2 Heat resisting stainless steel < 1500 N/mm2		Copper alloy Gold / Silver		Aluminium / Aluminium alloy / Plastic		Special alloys Inconel, Nimonic, Hastelloy heat resisting stainless steel		Titanium	
Ø D1 (mm)	Vc (m/min)	fz (mm)	Vc (m/min)	fz (mm)	Vc (m/min)	fz (mm)	Vc (m/min)	fz (mm)	Vc (m/min)	fz (mm)	Vc (m/min)	fz (mm)
0.10 - 0.50		0.001 - 0.007		0.001 - 0.006		0.002 - 0.008		0.002 - 0.008		0.001 - 0.004		0.002 - 0.006
0.50 - 1		0.003 - 0.010		0.003 - 0.010		0.003 - 0.010		0.003 - 0.01		0.002 - 0.006		0.004 - 0.006
1 - 2		0.005 - 0.010		0.004- 0.010		0.005 - 0.02		0.005 - 0.02		0.003 - 0.01		0.006 - 0.02
2 - 4		0.006 - 0.02		0.005 - 0.013		0.01 - 0.03		0.01 - 0.03		0.005 - 0.01		0.009 - 0.023
4 - 6	**60 - 90**	0.01 - 0.04	**35 - 60**	0.01 - 0.03	**90 - 150**	0.015 -0.050	**15 - 220**	0.015 - 0.05	**15 - 30**	0.01 - 0.03	**30 - 45**	0.015 - 0.03
6 - 8		0.02 - 0.05		0.015 - 0.04		0.025 - 0.070		0.025 - 0.07		0.015 - 0.04		0.02 - 0.04
8 - 10		0.03 - 0.07		0.02 - 0.05		0.03 - 0.10		0.035 - 0.10		0.020 - 0.05		0.025 - 0.07
10 - 14		0.04 - 0.10		0.03 - 0.07		0.05 - 0.15		0.05 - 0.15		0.03 - 0.07		0.04 - 0.09
14 - 16		0.06 - 0.11		0.04 - 0.08		0.07 - 0.16		0.07 - 0.16		0.04 - 0.08		0.045 - 0.11
16 - 20		0.08 - 0.14		0.05 - 0.10		0.10 - 0.20		0.10 - 0.20		0.05 - 0.10		0.06 - 0.15

$$n\,[min^{-1}] = \frac{Vc\,[m/min] \times 1000}{\pi \times D1\,[mm]}$$

$$Vf\,[mm/min] = n\,[min^{-1}] \times fz\,[mm] \times Z$$

GRAVAGE

Matière	Acier non allié / faiblement allié < 600 N/mm2			Acier faiblement allié /Acier fortement allié 700-1500N/mm2			Aciers et fontes / fortement alliés / Acier inoxydable < 1500 N/mm2			Alliages de cuivre / Or / Argent /			Aluminium /alliages d'aluminium et Plastique			Alliages spéciaux, Inconel, Nimonic, Hastelloy acier inoxydable réfractaire			Titane		
Werkstoff	Unlegierte/niedrig legierte Stähle < 600 N/mm2			Unlegierte/niedrig /legierte Stähle / 700 – 1500 N/mm2			Hochlegierte Stähle / Guss / Rostfreie Stähle < 1500 N/mm2			Kupfer-Kupferlegierung / Gold / Silber			Aluminium / Aluminiumlegierung / Kunststoff			Sonderlegierungen Inconel, Nimonic, Hastelloy warmfeste rostfreie Stähle			Titan, Titanlegierung		
Material	Unalloyed steel < 600 N/mm2			Unalloyed & alloyed steel / low alloyed steel 700 – 1500 N/mm2			High alloyed steel / Heat resisting stainless steel < 1500 N/mm2			Copper alloyGold / Silver			Aluminium / Aluminium alloy / Plastic			Special alloys Inconel, Nimonic, Hastelloy heat resisting stainless steel			Titanium		
a (mm)	n (tr/min)	Vf [mm/min]	ap [mm]	n (tr/min)	Vf [mm/min]	ap [mm]	n (tr/min)	Vf [mm/min]	ap [mm]	n (tr/min)	Vf [mm/min]	ap [mm]	n (tr/min)	Vf [mm/min]	ap [mm]	n (tr/min)	Vf [mm/min]	ap [mm]	n (tr/min)	Vf [mm/min]	ap [mm]
0.04 - 0.10	20'000 - 35'000	50 - 250	0.05 - 0.30	20'000 - 35'000	50 - 250	0.05 - 0.30	20'000 - 35'000	50 - 250	0.05 - 0.20	20'000 - 35'000	50 - 300	0.05 - 0.30	20'000 - 35'000	50 - 250	0.05 - 0.30	20'000 - 35'000	50 - 250	0.05 - 0.30	20'000 - 35'000	50 - 250	0.05 - 0.30
0.10 - 0.20		100 - 300	0.10 - 0.40		80 - 250	0.10 - 0.35		80 - 250	0.10 - 0.30		100 - 300	0.10 - 0.40		0.04 - 0.08	0.10 - 0.40		100 - 250	0.10 - 0.35		100 - 250	0.10 - 0.35

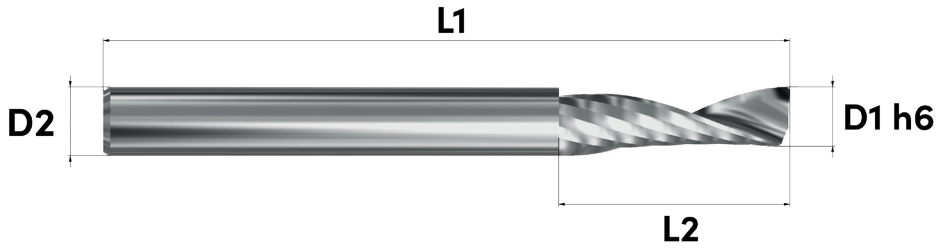
N = Vitesse de rotation en tr/min
Vc = Vitesse de coupe en m/min
p = 3,14
Ø = Diam. de la fraise en mm

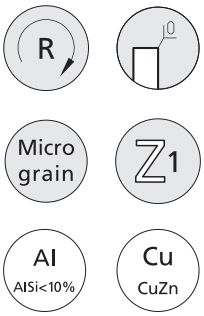
N = Rotational speed in tr/min
Vc = Cutting speed in m/min
p = 3,14
Ø = Diameter of the milling cutter in mm

N = Dre in tr/min
Vc = Cutting speed in m/min
p = 3,14
Ø = Diameter of the milling cutter in mm

1201

Fraises en bout 1 dent
End mills 1 tooth
Schaftfräsern 1 Zahn





Réf.	D1 h6	D2 h5	L1	L2
1201-0200	2.00	2.00	38.00	6.00
1201-0300	3.00	3.00	38.00	8.00
1201-0400	4.00	4.00	57.00	12.00
1201-0500	5.00	5.00	57.00	14.00
1201-0600	6.00	6.00	57.00	16.00
1201-0800	8.00	8.00	60.00	20.00
1201-1000	10.00	10.00	75.00	22.00
1201-1200	12.00	12.00	85.00	25.00
1201-1600	16.00	16.00	100.00	30.00
1201-2000	20.00	20.00	100.00	35.00

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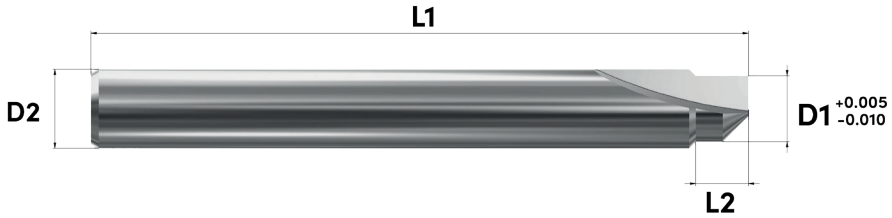
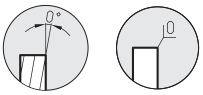
Micro-fraises renforcées 1 dent

Micro end mills straight flute Z1

Mikro-Schaftfräsern gerade genutet Zahn Z1

1372

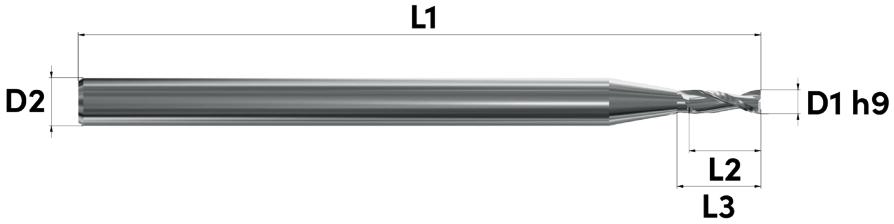


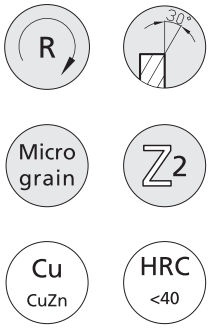


Réf.	D1 + 0.005 - 0.010	D2 h5	L1	L2
1372-0020	0.20	3.00	39.00	0.40
1372-0030	0.30	3.00	39.00	0.60
1372-0040	0.40	3.00	39.00	0.80
1372-0050	0.50	3.00	39.00	1.00
1372-0060	0.60	3.00	39.00	1.20
1372-0070	0.70	3.00	39.00	1.40
1372-0080	0.80	3.00	39.00	1.60
1372-0090	0.90	3.00	39.00	1.80
1372-0100	1.00	3.00	39.00	2.00
1372-0110	1.10	3.00	39.00	2.20
1372-0120	1.20	3.00	39.00	2.40
1372-0130	1.30	3.00	39.00	2.60
1372-0140	1.40	3.00	39.00	2.80
1372-0150	1.50	3.00	39.00	3.00
1372-0160	1.60	3.00	39.00	3.20
1372-0170	1.70	3.00	39.00	3.40
1372-0180	1.80	3.00	39.00	3.60
1372-0190	1.90	3.00	39.00	3.80
1372-0200	2.00	3.00	39.00	4.00
1372-0250	2.50	3.00	39.00	5.00
1372-0300	3.00	4.00	40.00	6.00

1202

Fraises en bout 2 dents
End mills 2 teeth
Schaftfräsern 2 Zähne





Réf.	D1 h9	D2 h5	L1	L2	L3
1202-0200	2.00	6.00	57.00	6.00	9.00
1202-0250	2.50	6.00	57.00	7.00	9.00
1202-0300	3.00	6.00	57.00	8.00	10.00
1202-0350	5.00	5.00	57.00	10.00	12.00
1202-0400	6.00	6.00	57.00	12.00	13.00
1202-0500	8.00	8.00	60.00	14.00	15.00
1202-0600	10.00	10.00	75.00	16.00	-
1202-0800	12.00	12.00	85.00	20.00	-
1202-1000	16.00	16.00	100.00	22.00	-
1202-1200	20.00	20.00	100.00	25.00	-
1202-1600	16.00	16.00	100.00	30.00	-
1202-2000	20.00	20.00	100.00	35.00	-

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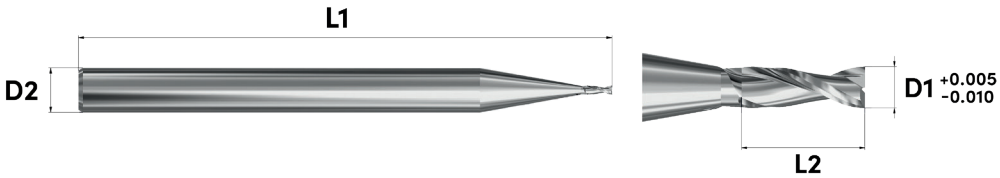
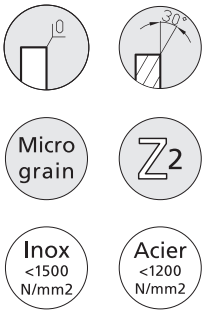
Micro-fraises 2 dents 1.5xØ

Micro end mills 2 teeth 1.5xØ

Mikro-Schaftfräsern 2 Zähne 1.5xØ

12042

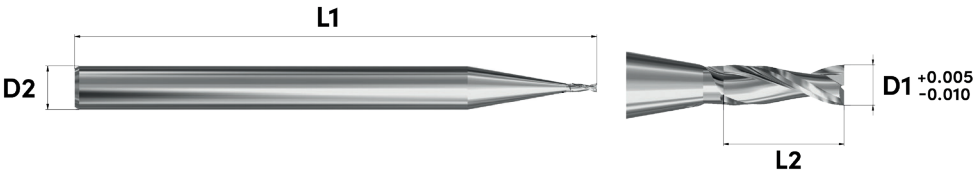


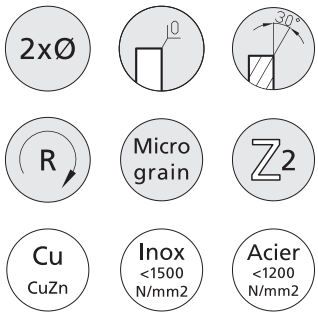


Réf.	D1 + 0.005 - 0.010	D2 h5	L1	L2
12042-0010	0.10	3.00	39.00	0.15
12042-0015	0.15	3.00	39.00	0.20
12042-0020	0.20	3.00	39.00	0.30
12042-0025	0.25	3.00	39.00	0.35
12042-0030	0.30	3.00	39.00	0.45
12042-0040	0.40	3.00	39.00	0.60
12042-0050	0.50	3.00	39.00	0.75
12042-0060	0.60	3.00	39.00	0.90
12042-0070	0.70	3.00	39.00	1.05
12042-0080	0.80	3.00	39.00	1.20
12042-0090	0.90	3.00	39.00	1.35
12042-0100	1.00	3.00	39.00	1.50
12042-0110	1.10	3.00	39.00	1.65
12042-0120	1.20	3.00	39.00	1.80
12042-0130	1.30	3.00	39.00	1.95
12042-0140	1.40	3.00	39.00	2.10
12042-0150	1.50	3.00	39.00	2.25
12042-0160	1.60	3.00	39.00	2.40
12042-0170	1.70	3.00	39.00	2.55
12042-0180	1.80	3.00	39.00	2.70
12042-0190	1.90	3.00	39.00	2.85
12042-0200	2.00	3.00	39.00	3.00

12044

Micro-fraises 2 dents 2xØ
Micro end mills 2 teeth 2xØ
Mikro-Schaftfräsern 2 Zähne 2xØ





Réf.	D1 $^{+0.005}_{-0.010}$	D2 h5	L1	L2
12044-0020 RV42	0.20	3.00	38.00	0.40
12044-0020	0.20	3.00	38.00	0.40
12044-0025 RV42	0.25	3.00	38.00	0.60
12044-0025	0.25	3.00	38.00	0.60
12044-0030 RV42	0.30	3.00	38.00	0.60
12044-0030	0.30	3.00	38.00	0.60
12044-0040 RV42	0.40	3.00	38.00	0.80
12044-0040	0.40	3.00	38.00	0.80
12044-0050 RV42	0.50	3.00	38.00	1.00
12044-0050	0.50	3.00	38.00	1.00
12044-0060 RV42	0.60	3.00	38.00	1.20
12044-0060	0.60	3.00	38.00	1.20
12044-0070 RV42	0.70	3.00	38.00	1.40
12044-0070	0.70	3.00	38.00	1.40
12044-0080 RV42	0.80	3.00	38.00	1.60
12044-0080	0.80	3.00	38.00	1.60
12044-0090 RV42	0.90	3.00	38.00	1.80
12044-0090	0.90	3.00	38.00	1.80
12044-0100 RV42	1.00	3.00	38.00	2.00
12044-0100	1.00	3.00	38.00	2.00
12044-0110 RV42	1.10	3.00	38.00	2.20
12044-0110	1.10	3.00	38.00	2.20
12044-0120 RV42	1.20	3.00	38.00	2.40
12044-0120	1.20	3.00	38.00	2.40
12044-0130 RV42	1.30	3.00	38.00	2.60
12044-0130	1.30	3.00	38.00	2.60
12044-0140 RV42	1.40	3.00	38.00	2.80
12044-0140	1.40	3.00	38.00	2.80
12044-0150 RV42	1.50	3.00	38.00	3.00
12044-0150	1.50	3.00	38.00	3.00
12044-0160 RV42	1.60	3.00	38.00	3.20
12044-0160	1.60	3.00	38.00	3.20
12044-0170 RV42	1.70	3.00	38.00	3.40
12044-0170	1.70	3.00	38.00	3.40

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Micro-fraises 2 dents 2xØ

Micro end mills 2 teeth 2xØ

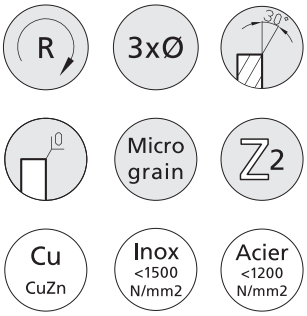
Mikro-Schaftfräsern 2 Zähne 2xØ

12044

Réf.	D1 $^{+0.005}_{-0.010}$	D2 h5	L1	L2
12044-0180 RV42	1.80	3.00	38.00	3.60
12044-0180	1.80	3.00	38.00	3.60
12044-0190 RV42	1.90	3.00	38.00	4.00
12044-0190	1.90	3.00	38.00	4.00
12044-0200 RV42	2.00	3.00	38.00	6.00
12044-0200	2.00	3.00	38.00	6.00
12044-0210 RV42	2.10	3.00	38.00	7.00
12044-0210	2.10	3.00	38.00	7.00
12044-0220 RV42	2.20	3.00	38.00	7.00
12044-0220	2.20	3.00	38.00	7.00
12044-0230 RV42	2.30	3.00	38.00	7.00
12044-0230	2.30	3.00	38.00	7.00
12044-0240 RV42	2.40	3.00	38.00	7.00
12044-0240	2.40	3.00	38.00	7.00
12044-0250 RV42	2.50	3.00	38.00	7.00
12044-0250	2.50	3.00	38.00	7.00
12044-0300 RV42	3.00	6.00	38.00	7.00
12044-0300	3.00	6.00	38.00	7.00

1252

Micro-fraises 2 dents 3xØ
Micro end mills 2 teeth 3xØ
Mikro-Fräsern 2 Zähne 3xØ



Réf.	D1 $^{+0.005}_{-0.010}$	D2 h5	L1	L2	Lu
1252-0010	0.10	3.00	39.00	0.25	0.30
1252-0015	0.15	3.00	39.00	0.30	0.45
1252-0020	0.20	3.00	39.00	0.40	0.60
1252-0025	0.25	3.00	39.00	0.60	0.75
1252-0030	0.30	3.00	39.00	0.60	0.90
1252-0040	0.40	3.00	39.00	0.80	1.20
1252-0050	0.50	3.00	39.00	1.00	1.50
1252-0060	0.60	3.00	39.00	1.20	1.80
1252-0070	0.70	3.00	39.00	1.40	2.10
1252-0075	0.75	3.00	39.00	2.00	2.25
1252-0080	0.80	3.00	39.00	1.60	2.40
1252-0090	0.90	3.00	39.00	1.80	2.70
1252-0100	1.00	3.00	39.00	2.00	3.00
1252-0110	1.10	3.00	39.00	2.20	3.30
1252-0120	1.20	3.00	39.00	2.40	3.60
1252-0130	1.30	3.00	39.00	2.60	3.90
1252-0140	1.40	3.00	39.00	2.80	4.20
1252-0150	1.50	3.00	39.00	3.00	4.50
1252-0160	1.60	3.00	39.00	3.20	4.80
1252-0170	1.70	3.00	39.00	3.40	5.10
1252-0180	1.80	3.00	39.00	3.60	5.40
1252-0190	1.90	3.00	39.00	4.00	5.70
1252-0200	2.00	3.00	39.00	6.00	6.00
1252-0210	2.10	3.00	39.00	7.00	6.30
1252-0220	2.20	3.00	39.00	7.00	6.60
1252-0230	2.30	3.00	39.00	7.00	6.90
1252-0240	2.40	3.00	39.00	7.00	7.20
1252-0250	2.50	3.00	39.00	7.00	7.50
1252-0260	2.60	3.00	39.00	7.50	7.80
1252-0270	2.70	3.00	39.00	8.00	8.10
1252-0280	2.80	3.00	39.00	8.00	8.40
1252-0290	2.90	3.00	39.00	8.00	8.70

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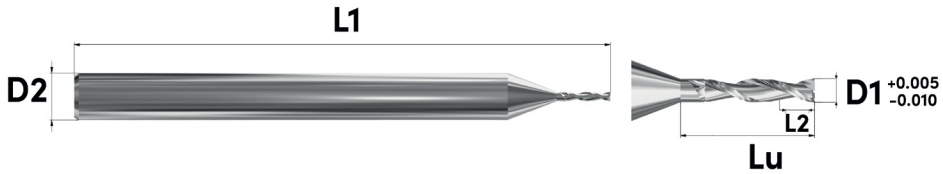
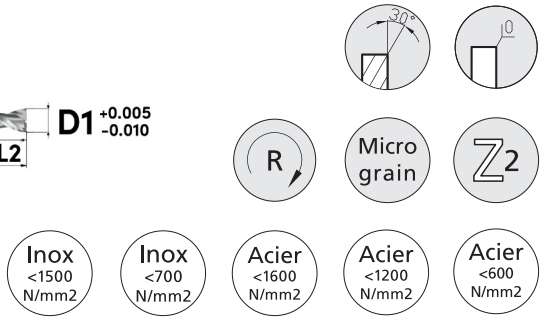
Micro-fraises 2 dents 5xØ

Micro end mills 2 teeth 5xØ

Mikro-Schaftfräsern 2 Zähne 5xØ

1205





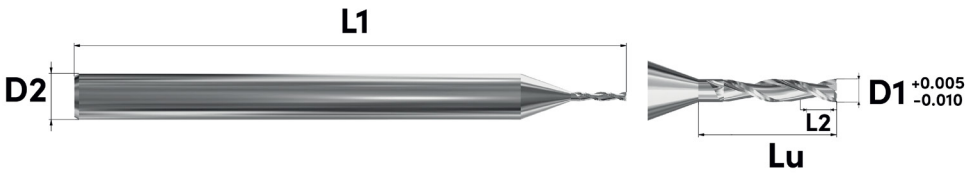
Ref.	D1 + 0.005 - 0.010	D2 h5	L1	L2	Lu
1205-0030	0.30	3.00	39.00	0.60	1.50
1205-0040	0.40	3.00	39.00	0.80	2.00
1205-0050	0.50	3.00	39.00	1.00	2.50
1205-0060	0.60	3.00	39.00	1.20	3.00
1205-0070	0.70	3.00	39.00	1.40	3.50
1205-0080	0.80	3.00	39.00	1.60	4.00
1205-0090	0.90	3.00	39.00	1.80	4.50
1205-0100	1.00	3.00	39.00	2.00	5.00
1205-0110	1.10	3.00	39.00	2.20	5.50
1205-0120	1.20	3.00	39.00	2.40	6.00
1205-0150	1.50	3.00	39.00	3.00	7.50
1205-0200	2.00	3.00	39.00	6.00	10.00
1205-0250	2.50	3.00	39.00	7.00	12.50

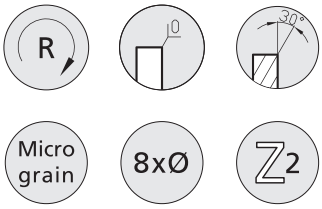
12048

Micro-fraises 2 dents 8xØ

Micro end mills 2 teeth 8xØ

Mikro-Schaftfräsern 2 Zähne 8xØ





Réf.	D1	D2 h5	L1	L2	Lu
12048-0040	0.40	3.00	39.00	0.80	3.20
12048-0050	0.50	3.00	39.00	1.00	4.00
12048-0060	0.60	3.00	39.00	1.20	4.80
12048-0070	0.70	3.00	39.00	1.40	5.60
12048-0080	0.80	3.00	39.00	1.60	6.40
12048-0090	0.90	3.00	39.00	1.80	7.20
12048-0100	1.00	3.00	39.00	2.00	8.00
12048-0120	1.20	3.00	39.00	2.40	9.60
12048-0150	1.50	4.00	50.00	3.00	12.00
12048-0200	2.00	4.00	50.00	6.00	16.00
12048-0250	2.50	4.00	50.00	7.00	20.00

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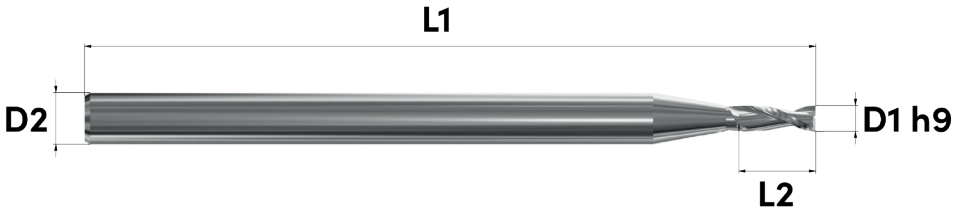
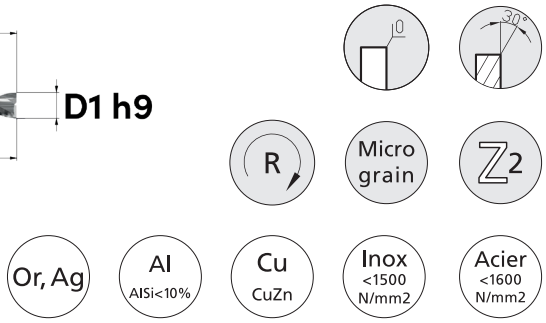
Micro-fraises «TORX» 2 dents

Micro end mills «TORX» 2 teeth

Mikro-Schaftfräsern «TORX» 2 Zähne

12052





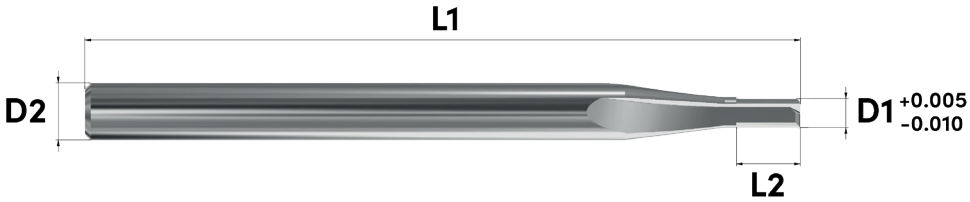
Réf.	D1 h9	D2 h5	L1	L2
12052-030-100	0.30	3.00	38.00	1.00
12052-030-170	0.30	3.00	38.00	1.70
12052-035-090	0.35	3.00	38.00	0.90
12052-040-140	0.40	3.00	38.00	1.40
12052-040-170	0.40	3.00	38.00	1.70
12052-050-160	0.50	3.00	38.00	1.60
12052-060-170	0.60	3.00	38.00	1.70
12052-060-300	0.60	3.00	38.00	3.00
12052-070-350	0.70	3.00	38.00	3.50
12052-080-170	0.80	3.00	38.00	1.70
12052-080-300	0.80	3.00	38.00	3.00
12052-080-350	0.80	3.00	38.00	3.50

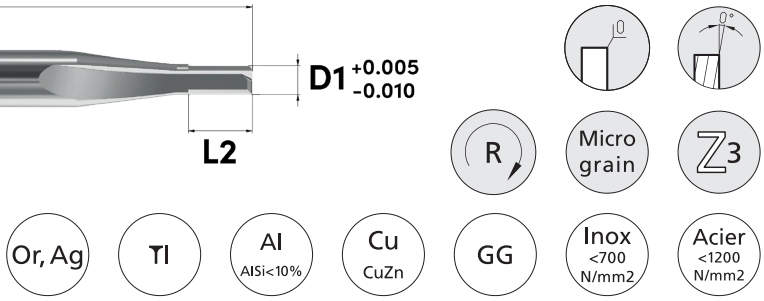
1373

Micro-fraises dents droites 2xØ Z3

Micro end mills straight flutes 2xØ Z3

Mikro-Schaftfräsern gerade genutet Zähne 2xØ Z3





Réf.	D1 +0.005 - 0.010	D2 h5	L1	L2
1373-0040	0.40	3.00	38.00	0.80
1373-0050	0.50	3.00	38.00	1.00
1373-0060	0.60	3.00	38.00	1.20
1373-0070	0.70	3.00	38.00	1.40
1373-0080	0.80	3.00	38.00	1.60
1373-0090	0.90	3.00	38.00	1.80
1373-0100	1.00	3.00	38.00	2.00
1373-0110	1.10	3.00	38.00	2.20
1373-0120	1.20	3.00	38.00	2.40
1373-0130	1.30	3.00	38.00	2.60
1373-0140	1.40	3.00	38.00	2.80
1373-0150	1.50	3.00	38.00	3.00
1373-0160	1.60	3.00	38.00	3.20
1373-0170	1.70	3.00	38.00	3.40
1373-0180	1.80	3.00	38.00	3.60
1373-0190	1.90	3.00	38.00	3.80
1373-0200	2.00	3.00	38.00	4.00
1373-0250	2.50	3.00	38.00	5.00
1373-0260	2.60	3.00	38.00	5.20
1373-0270	2.70	3.00	38.00	5.40
1373-0280	2.80	3.00	38.00	5.60
1373-0290	2.90	3.00	38.00	5.80
1373-0300	3.00	4.00	40.00	6.00

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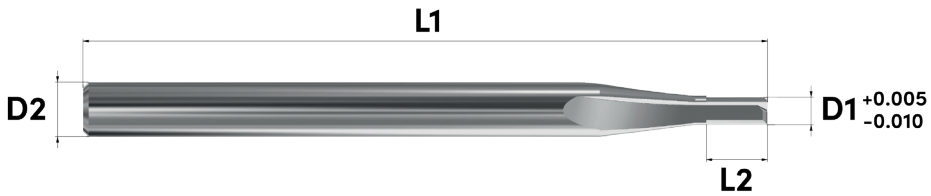
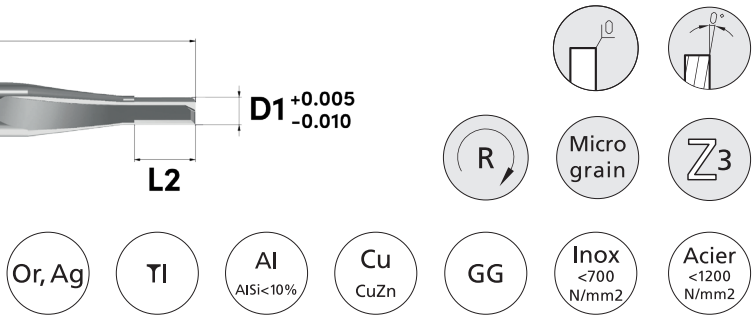
Micro-fraises dents droites 3xØ Z3

Micro end mills straight flutes 3xØ Z3

Mikro-Schaftfräsern gerade genutet Zähne 3xØ Z3

1374

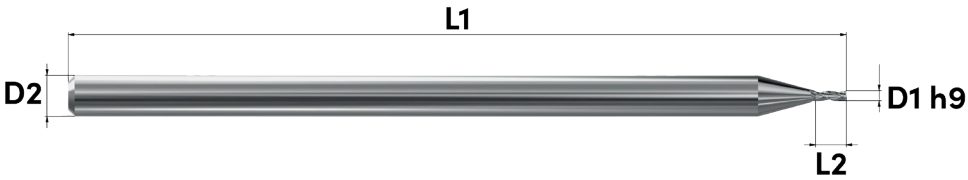


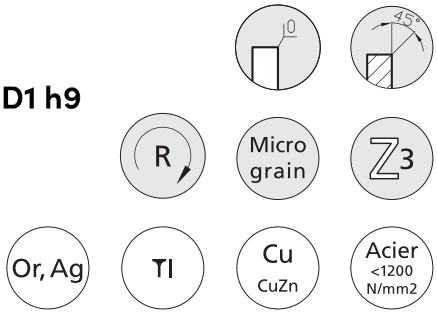


Réf.	D1 + 0.005 - 0.010	D2 h5	L1	L2
1374-0040	0.40	3.00	38.00	1.20
1374-0050	0.50	3.00	38.00	1.50
1374-0060	0.60	3.00	38.00	1.80
1374-0070	0.70	3.00	38.00	2.20
1374-0080	0.80	3.00	38.00	2.40
1374-0090	0.90	3.00	38.00	2.70
1374-0100	1.00	3.00	38.00	3.00
1374-0110	1,10	3.00	38.00	3.30
1374-0120	1.20	3.00	38.00	3.60
1374-0130	1.30	3.00	38.00	3.90
1374-0140	1.40	3.00	38.00	4.20
1374-0150	1.50	3.00	38.00	4.50
1374-0160	1.60	3.00	38.00	4.80
1374-0170	1.70	3.00	38.00	5.10
1374-0180	1.80	3.00	38.00	5.40
1374-0190	1.90	3.00	38.00	5.70
1374-0200	2.00	3.00	38.00	6.00

12053

Micro-fraises «TORX» 3 dents
Micro end mills «TORX» 3 teeth
Mikro-Schaftfräsern «TORX» 3 Zähne





Réf.	D1 h9	D2 h5	L1	L2
12053-030-100	0.30	3.00	38.00	1.00
12053-030-180	0.30	3.00	38.00	1.80
12053-035-120	0.35	3.00	38.00	1.20
12053-040-140	0.40	3.00	38.00	1.40
12053-040-200	0.40	3.00	38.00	2.00
12053-050-200	0.50	3.00	38.00	2.00
12053-060-170	0.60	3.00	38.00	1.70
12053-060-300	0.60	3.00	38.00	3.00
12053-070-350	0.70	3.00	38.00	3.50
12053-080-170	0.80	3.00	38.00	1.70
12053-080-300	0.80	3.00	38.00	3.00
12053-080-350	0.80	3.00	38.00	3.50

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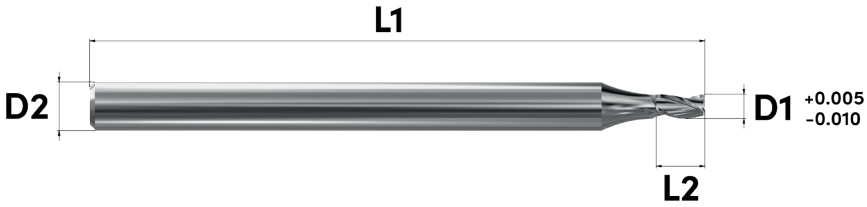
Micro-fraises 3 dents 1.3xØ

Micro end mills 3 teeth 1.3xØ

Mikro-Schaftfräsern 3 Zähne 1.3xØ

12055



1.3xØ | Micro grain | Z3

Or, Ag | PE | TI | Al (AlSi<10%) | Cu (CuZn) | GG | Inox <1500 N/mm2 | Inox <700 N/mm2 | Acier <1600 N/mm2 | Acier <1200 N/mm2 | Acier <600 N/mm2

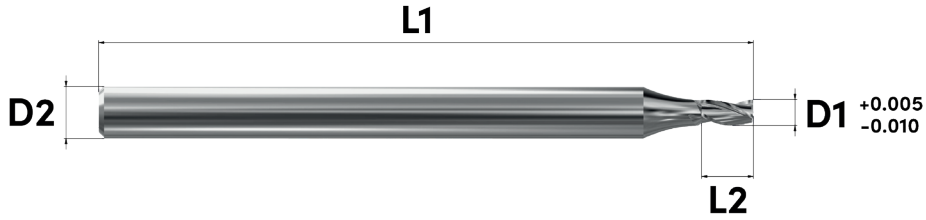
Réf.	D1 + 0.005 - 0.010	D2 h5	L1	L2
12055-0030	0.30	3.00	39.00	0.40
12055-0040	0.40	3.00	39.00	0.50
12055-0045	0.45	3.00	39.00	0.60
12055-0050	0.50	3.00	39.00	0.70
12055-0060	0.60	3.00	39.00	0.80
12055-0070	0.70	3.00	39.00	0.90
12055-0080	0.80	3.00	39.00	1.00
12055-0090	0.90	3.00	39.00	1.30
12055-0100	1.00	3.00	39.00	1.30
12055-0110	1.10	3.00	39.00	1.50
12055-0120	1.20	3.00	39.00	1.60
12055-0130	1.30	3.00	39.00	1.80
12055-0140	1.40	3.00	39.00	1.80
12055-0150	1.50	3.00	39.00	2.00
12055-0160	1.60	3.00	39.00	2.00
12055-0170	1.70	3.00	39.00	2.00
12055-0180	1.80	3.00	39.00	2.40
12055-0190	1.90	3.00	39.00	2.40
12055-0200	2.00	3.00	39.00	2.60
12055-0220	2.20	3.00	39.00	3.00
12055-0250	2.50	3.00	39.00	3.30
12055-0280	2.80	3.00	39.00	3.50
12055-0290	2.90	3.00	39.00	3.50

1251

Micro-fraises 3 dents 2xØ

Micro end mills 3 teeth 2xØ

Mikro-Fräsern 3 Zähne 2xØ



Réf.	D1 $^{+0.005}_{-0.010}$	D2 h5	L1	L2
1251-0030	0.30	3.00	39.00	0.60
1251-0040	0.40	3.00	39.00	0.80
1251-0050	0.50	3.00	39.00	1.00
1251-0060	0.60	3.00	39.00	1.20
1251-0070	0.70	3.00	39.00	1.40
1251-0075	0.75	3.00	39.00	1.50
1251-0080	0.80	3.00	39.00	1.60
1251-0090	0.90	3.00	39.00	1.80
1251-0100	1.00	3.00	39.00	2.00
1251-0110	1.10	3.00	39.00	2.20
1251-0120	1.20	3.00	39.00	2.40
1251-0130	1.30	3.00	39.00	2.60
1251-0140	1.40	3.00	39.00	2.80
1251-0150	1.50	3.00	39.00	3.00
1251-0160	1.60	3.00	39.00	3.20
1251-0170	1.70	3.00	39.00	3.40
1251-0180	1.80	3.00	39.00	3.60
1251-0190	1.90	3.00	39.00	3.80
1251-0200	2.00	3.00	39.00	4.00
1251-0210	2.10	3.00	39.00	4.20
1251-0220	2.20	3.00	39.00	4.40
1251-0230	2.30	3.00	39.00	4.60
1251-0240	2.40	3.00	39.00	4.80
1251-0250	2.50	3.00	39.00	5.00
1251-0260	2.60	3.00	39.00	5.20
1251-0270	2.70	3.00	39.00	5.40
1251-0280	2.80	3.00	39.00	5.60
1251-0290	2.90	3.00	39.00	5.80

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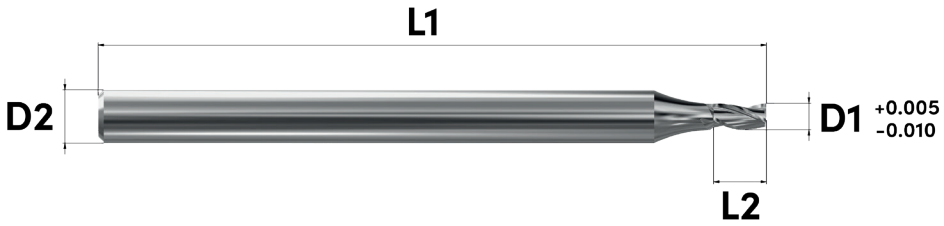
Micro-fraises 3 dents 3xØ

Micro end mills 3 teeth 3xØ

Mikro-Fräsern 3 Zähne 3xØ

1243



R | 30° | 3xØ | Micro grain | Z3

Pt | Al AlSi<10% | Cu CuZn | GG | Inox <700 N/mm2 | Acier <1200 N/mm2 | Or, Ag | Ti

Réf.	D1 $^{+0.005}_{-0.010}$	D2 h5	L1	L2
1243-0030 RV42	0.30	3.00	38.00	0.90
1243-0030	0.30	3.00	38.00	0.90
1243-0040 RV42	0.40	3.00	38.00	1.20
1243-0040	0.40	3.00	38.00	1.20
1243-0050 RV42	0.50	3.00	38.00	1.50
1243-0050	0.50	3.00	38.00	1.50
1243-0060 RV42	0.60	3.00	38.00	2.00
1243-0060	0.60	3.00	38.00	2.00
1243-0070 RV42	0.70	3.00	38.00	2.00
1243-0070	0.70	3.00	38.00	2.00
1243-0075 RV42	0.75	3.00	38.00	2.00
1243-0075	0.75	3.00	38.00	2.00
1243-0080 RV42	0.80	3.00	38.00	2.50
1243-0080	0.80	3.00	38.00	2.50
1243-0090 RV42	0.90	3.00	38.00	2.50
1243-0090	0.90	3.00	38.00	2.50
1243-0100 RV42	1.00	3.00	38.00	3.00
1243-0100	1.00	3.00	38.00	3.00
1243-0110 RV42	1.10	3.00	38.00	3.30
1243-0110	1.10	3.00	38.00	3.30
1243-0120 RV42	1.20	3.00	38.00	4.00
1243-0120	1.20	3.00	38.00	4.00
1243-0130 RV42	1.30	3.00	38.00	4.00
1243-0130	1.30	3.00	38.00	4.00
1243-0140 RV42	1.40	3.00	38.00	4.00
1243-0140	1.40	3.00	38.00	4.00
1243-0150 RV42	1.50	3.00	38.00	4.50
1243-0150	1.50	3.00	38.00	4.50
1243-0160 RV42	1.60	3.00	38.00	4.50
1243-0160	1.60	3.00	38.00	4.50
1243-0170 RV42	1.70	3.00	38.00	5.00
1243-0170	1.70	3.00	38.00	5.00
1243-0180 RV42	1.80	3.00	38.00	6.00
1243-0180	1.80	3.00	38.00	6.00
1243-0190 RV42	1.90	3.00	38.00	6.00

1243

Micro-fraises 3 dents 3xØ
Micro end mills 3 teeth 3xØ
Mikro-Fräsern 3 Zähne 3xØ

Réf.	D1 $^{+0.005}_{-0.010}$	D2 h5	L1	L2
1243-0190	1.90	3.00	38.00	6.00
1243-0200 RV42	2.00	3.00	38.00	6.00
1243-0200	2.00	3.00	38.00	6.00
1243-0210 RV42	2.10	3.00	38.00	6.00
1243-0210	2.10	3.00	38.00	6.00
1243-0220 RV42	2.20	3.00	38.00	6.50
1243-0220	2.20	3.00	38.00	6.50
1243-0230 RV42	2.30	3.00	38.00	7.00
1243-0230	2.30	3.00	38.00	7.00
1243-0240 RV42	2.40	3.00	38.00	7.00
1243-0240	2.40	3.00	38.00	7.00
1243-0250 RV42	2.50	3.00	38.00	7.00
1243-0250	2.50	3.00	38.00	7.00
1243-0300 RV42	3.00	6.00	57.00	7.00
1243-0300	3.00	6.00	57.00	7.00
1243-0400 RV42	4.00	6.00	57.00	8.00
1243-0400	4.00	6.00	57.00	8.00
1243-0500 RV42	5.00	6.00	57.00	8.00
1243-0500	5.00	6.00	57.00	8.00
1243-0600 RV42	6.00	6.00	57.00	8.50
1243-0600	6.00	6.00	57.00	8.50
1243-0800 RV42	8.00	8.00	63.00	16.00
1243-0800	8.00	8.00	63.00	16.00
1243-1000 RV42	10.00	10.00	72.00	19.00
1243-1000	10.00	10.00	72.00	19.00

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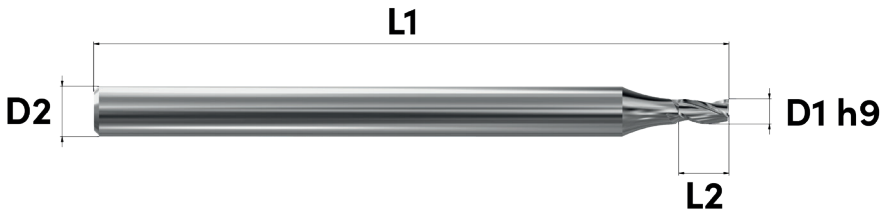
Fraises en bout 3 dents

End mills 3 teeth

Schaftfräsern 3 Zähne

1203

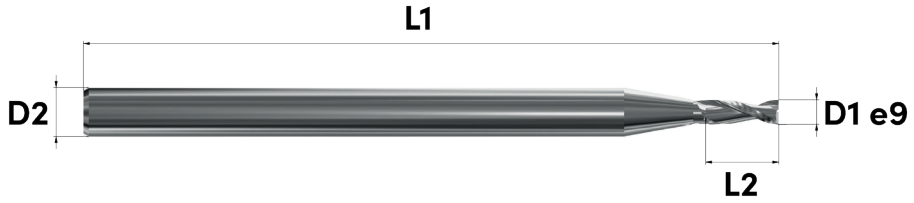


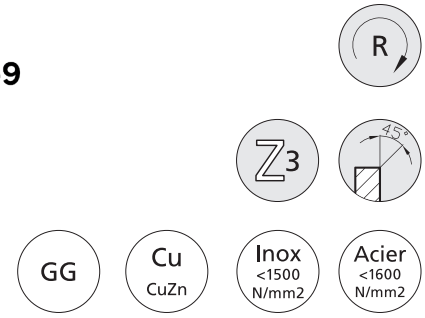
Or, Ag | TI | Al AlSi<10% | Cu CuZn | Inox <1500 N/mm2 | Acier <1200 N/mm2

Réf.	D1 h9	D2 h5	L1	L2
1203-0200	2.00	6.00	57.00	6.00
1203-0250	2.50	6.00	57.00	7.00
1203-0300	3.00	6.00	57.00	8.00
1203-0350	3.50	6.00	57.00	10.00
1203-0400	4.00	6.00	57.00	12.00
1203-0500	5.00	6.00	57.00	14.00
1203-0600	6.00	6.00	57.00	16.00
1203-0800	8.00	8.00	63.00	20.00
1203-1000	10.00	10.00	75.00	22.00
1203-1200	12.00	12.00	85.00	25.00
1203-1600	16.00	16.00	100.00	30.00
1203-2000	20.00	20.00	100.00	35.00

1233

Fraises en bout 3 dents
End mills 3 teeth
Schaftfräsern 3 Zähne





Réf.	D1	D2 h6	L1	L2
1233-0200 ic RV11	2.00	6.00	38.00	4.00
1233-0250 ic RV11	2.50	6.00	38.00	4.00
1233-0300 ic RV11	3.00	6.00	38.00	5.00
1233-0400 ic RV11	4.00	6.00	38.00	7.00
1233-0500 ic RV11	5.00	6.00	38.00	8.00
1233-0600 ic RV11	6.00	6.00	38.00	8.00
1233-0800 ic RV11	8.00	8.00	43.00	11.00
1233-0100 ic RV 11	10.00	10.00	50.00	13.00
1233-1200 ic RV11	12.00	12.00	60.00	15.00
1233-0200 ich RV11	2.00	6.00	38.00	4.00
1233-0250 ich RV11	2.50	6.00	38.00	4.00
1233-0300 ich RV11	3.00	6.00	38.00	5.00
1233-0400 ich RV11	4.00	6.00	38.00	7.00
1233-0500 ich RV11	5.00	6.00	38.00	8.00
1233-0600 ic RV11	6.00	6.00	38.00	8.00
1233-0800 ic RV11	8.00	8.00	43.00	11.00
1233-0100 ic RV 11	10.00	10.00	50.00	13.00
1233-1200 ic RV11	12.00	12.00	60.00	15.00
1233-0200 il RV11	2.00	6.00	57.00	7.00
1233-0250 il RV11	2.50	6.00	57.00	7.00
1233-0300 il RV11	3.00	6.00	57.00	8.00
1233-0400 il RV11	4.00	6.00	57.00	11.00
1233-0500 il RV11	5.00	6.00	57.00	13.00
1233-0600 il RV11	6.00	6.00	57.00	13.00
1233-0800 il RV11	8.00	8.00	63.00	19.00
1233-0100 il RV 11	10.00	10.00	75.00	22.00
1233-1200 il RV11	12.00	12.00	85.00	26.00

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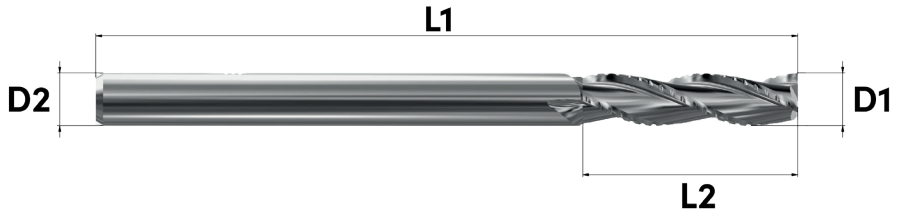
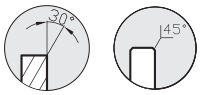
Fraises ébauche 3 dents

End mills for roughing 3 teeth
Schaftfräsern für schruppen 3 Zähne

1263





Micro grain | Z3 | R

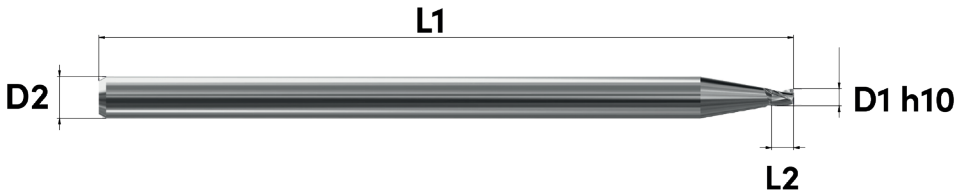
Or, Ag | TI | Al AlSi<10% | Cu CuZn | GG | Inox <700 N/mm2 | Acier <1200 N/mm2

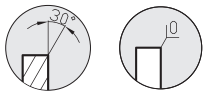
Réf.	D1	D2 h5	L1	L2
1263-0400	4.00	6.00	57.00	10.00
1263-0500	5.00	6.00	57.00	13.00
1263-0600	6.00	8.00	63.00	13.00
1263-0800	8.00	10.00	72.00	16.00
1263-1000	10.00	10.00	72.00	22.00
1263-1200	12.00	12.00	83.00	25.00
1263-1600	16.00	16.00	100.00	36.00

Fraises économiques 3 dents

Economical end mills 3 teeth
Wirtschaftliche Schaftfräsern 3 Zähne

1210





Micro grain | Z3 | R

Or, Ag | PE | TI | Al AlSi<10% | Cu CuZn | GG | Inox <1500 N/mm2 | Inox <700 N/mm2 | Acier <1600 N/mm2 | Acier <1200 N/mm2 | Acier <600 N/mm2

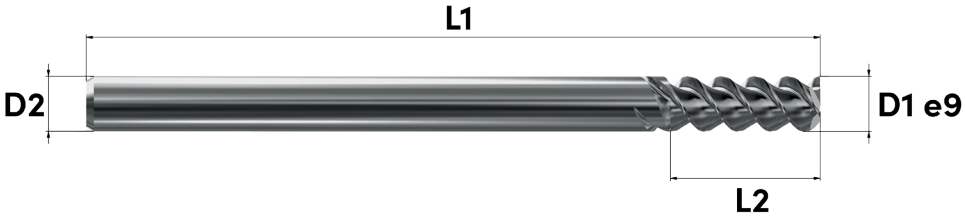
Réf.	D1 h10	D2 h5	L1	L2
1210-0100	1.00	6.00	40.00	3.00
1210-0150	1.50	6.00	40.00	3.00
1210-0200	2.00	6.00	40.00	3.00
1210-0250	2.50	6.00	40.00	3.00
1210-0300	3.00	6.00	40.00	4.00
1210-0350	3.50	6.00	40.00	4.00
1210-0400	4.00	6.00	40.00	5.00
1210-0450	4.50	6.00	40.00	5.00
1210-0500	5.00	6.00	40.00	6.00
1210-0600	6.00	6.00	40.00	7.00

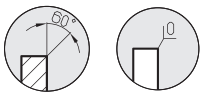
12060

Fraises en bout 3 dents hélice à 60° pour finition

Carbide end mills 3 teeth with helix 60° for finishing

Schaftfräsern 3 Zähne mit 60° Drallwinkel für schlichten





R | Z3 | Micro grain

TI | Al AlSi<10% | Cu CuZn | Acier <1600 N/mm2 | Or, Ag | GG | Acier <1200 N/mm2

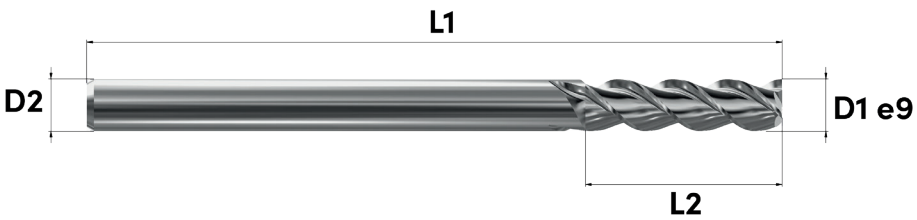
Réf.	D1 e9	D2 h5	L1	L2
12060-0200	2.00	2.00	32.00	8.00
12060-0250	2.50	2.50	32.00	8.00
12060-0300	3.00	3.00	32.00	12.00
12060-0350	3.50	3.50	32.00	12.00
12060-0400	4.00	4.00	40.00	12.00
12060-0450	4.50	4.50	50.00	14.00
12060-0500	5.00	5.00	50.00	14.00
12060-0600	6.00	6.00	50.00	16.00

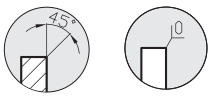
12045

Fraises en bout 3 dents hélice à 45°

Carbide end mills 3 teeth with helix 45°

Schaftfräsern 3 Zähne mit 45° Drallwinkel





R | Micro grain | Z3

GG | Acier <600 N/mm2 | Cu CuZn | Acier <1200 N/mm2 | PE | TI | Inox <700 N/mm2 | Inox <1500 N/mm2 | Acier <1600 N/mm2 | Al AlSi<10% | Or, Ag

Réf.	D1 e9	D2 h5	L1	L2
12045-0200	2.00	2.00	32.00	8.00
12045-0250	2.50	2.50	32.00	8.00
12045-0300	3.00	3.00	32.00	12.00
12045-0350	3.50	3.50	32.00	12.00
12045-0400	4.00	4.00	40.00	12.00
12045-0450	4.50	4.50	50.00	14.00
12045-0500	5.00	5.00	50.00	14.00
12045-0600	6.00	6.00	50.00	16.00

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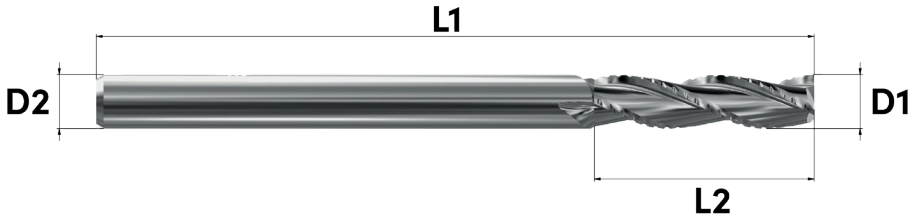
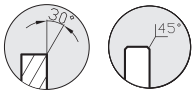
Fraises ébauche 4 dents

End mills for roughing 4 teeth

Schaftfräsern für Schruppen 4 Zähne

1264





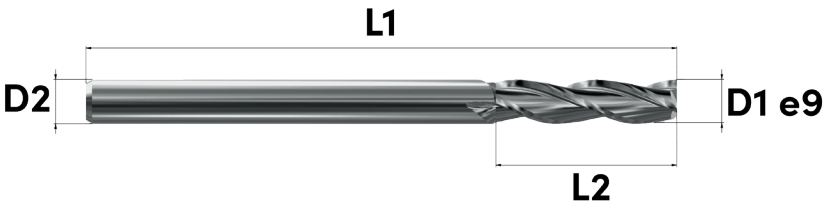
Réf.	D1	D2 h5	L1	L2
1264-0600	6.00	6.00	57.00	15.00
1264-0800	8.00	10.00	72.00	16.00
1264-1000	10.00	10.00	72.00	22.00
1264-1200	12.00	12.00	83.00	25.00
1264-1600	16.00	16.00	100.00	36.00

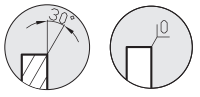
Fraises en bout 4 dents

End mills 4 teeth

Schaftfräsern 4 Zähne

1204





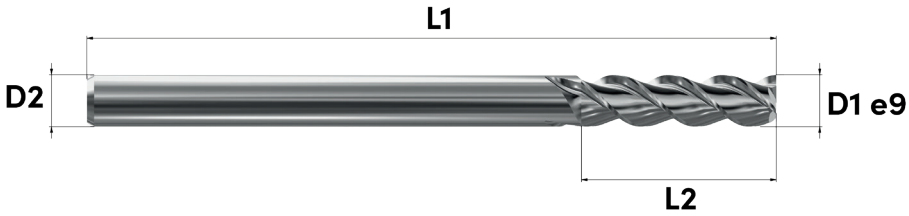
Réf.	D1 e9	D2 h5	L1	L2
1204-0200	2.00	2.00	32.00	8.00
1204-0250	2.50	2.50	32.00	8.00
1204-0300	3.00	3.00	32.00	12.00
1204-0350	3.50	3.50	32.00	12.00
1204-0400	4.00	4.00	40.00	12.00
1204-0450	4.50	4.50	50.00	14.00
1204-0500	5.00	5.00	50.00	14.00
1204-0600	6.00	6.00	50.00	16.00

1274

Fraises en bout 4 dents hélice à 45°

End mills 4 teeth with helix 45°

Schaftfräsern 4 Zähne mit 45° Drallwinkel



Réf.	D1 e9	D2 h5	L1	L2
1274-0200	2.00	2.00	32.00	8.00
1274-0250	2.50	2.50	32.00	8.00
1274-0300	3.00	3.00	32.00	12.00
1274-0350	3.50	3.50	32.00	12.00
1274-0400	4.00	4.00	40.00	12.00
1274-0450	4.50	4.50	50.00	14.00
1274-0500	5.00	5.00	50.00	14.00
1274-0600	6.00	6.00	50.00	16.00

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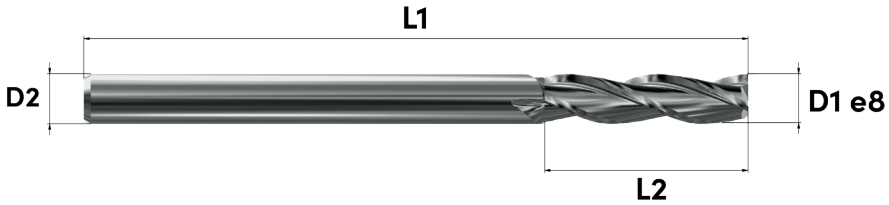
Fraises 4 dents à hélice variable et à pas décalé 38° à 41°

End mills 4 teeth with different helix angles and irregular teeth 38° to 41°

Schaftfräsern 4 Zähne mit unterschiedlichem Drallwinkel und ungleicher Teilung 38° bis 41°

1284



TiCN

R

Micro grain

Z4

Inox <700 N/mm2

TI

Acier <1600 N/mm2

Acier <1200 N/mm2

GG

Inox <1500 N/mm2

Acier <600 N/mm2

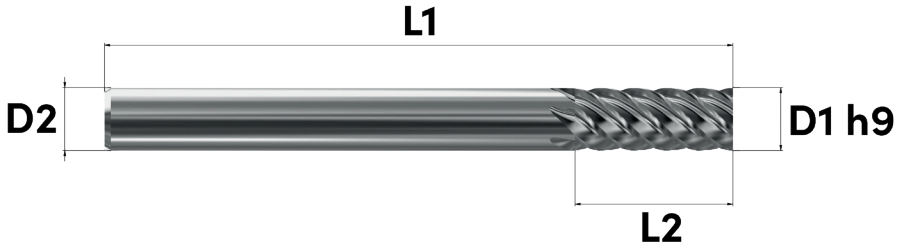
Réf.	D1 e8	D2 h5	L1	L2
1284-0150-RV42	1.50	3.00	38.00	3.00
1284-0200-RV42	2.00	3.00	38.00	4.00
1284-0300-RV42	3.00	6.00	57.00	8.00
1284-0400-RV42	4.00	6.00	57.00	11.00
1284-0500-RV42	5.00	6.00	57.00	13.00
1284-0600-RV42	6.00	6.00	57.00	13.00
1284-0800-RV42	8.00	8.00	63.00	19.00
1284-1000-RV42	10.00	10.00	72.00	22.00
1284-1200-RV42	12.00	12.00	83.00	26.00
1284-1600-RV42	16.00	16.00	92.00	32.00
1284-2000-RV42	20.00	20.00	104.00	38.00

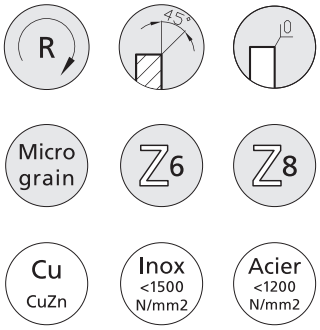
1276 - 1278

Fraises en bout 6-8 dents

End mills 6-8 teeth

Schaftfräsern 6-8 Zähne





Ref	D1 h9	D2 h5	L1	L2	Z
1276-0600	6.00	6.00	60.00	16.00	6.00
1276-0800	8.00	8.00	60.00	16.00	6.00
1276-0100	10.00	10.00	75.00	22.00	6.00
1276-1200	12.00	12.00	75.00	25.00	6.00
1278-1600	16.00	16.00	90.00	32.00	8.00
1278-2000	20.00	20.00	100.00	36.00	8.00

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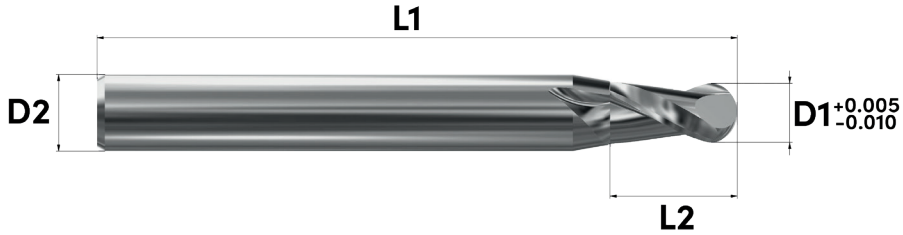
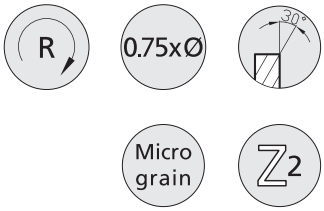
Micro-fraises hémisphériques 2 dents 0.75xØ

Ball nose micro end mills 2 teeth 0.75xØ

Mikro-Radiusfräsern 2 Zähne 0.75xØ

12090





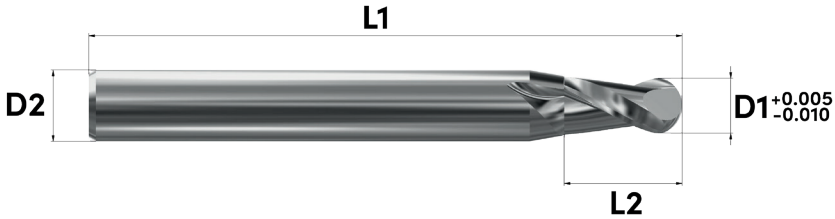
Ref	D1 + 0.005 - 0.010	D2 h5	R	L1	L2
12090-0020	0.20	3.00	0.10	39.00	0.15
12090-0030	0.30	3.00	0.15	39.00	0.20
12090-0040	0.40	3.00	0.20	39.00	0.30
12090-0050	0.50	3.00	0.25	39.00	0.37
12090-0060	0.60	3.00	0.30	39.00	0.45
12090-0080	0.80	3.00	0.40	39.00	0.60
12090-0100	1.00	3.00	0.50	39.00	0.75

12100

Micro-fraises hémisphériques 2 dents 1.5xØ

Ball nose micro end mills 2 teeth 1.5xØ

Mikro-Radiusfräsern 2 Zähne 1.5xØ



1.5xØ

Micro grain

Z2

R

Acier <600 N/mm2 | Acier <1200 N/mm2 | Acier <1600 N/mm2 | Inox <700 N/mm2 | Inox <1500 N/mm2 | GG | Cu CuZn | Al AlSi<10% | TI | PE | Or, Ag

Ref	D1 + 0.005 - 0.010	D2 h5	R	L1	L2
12100-0020	0.20	3.00	0.10	39.00	0.30
12100-0025	0.25	3.00	0.125	39.00	0.35
12100-0300	0.30	3.00	0.15	39.00	0.45
12100-0040	0.40	3.00	0.20	39.00	0.60
12100-0050	0.50	3.00	0.25	39.00	0.75
12100-0060	0.60	3.00	0.30	39.00	0.90
12100-0070	0.70	3.00	0.35	39.00	1.05
12100-0080	0.80	3.00	0.40	39.00	1.20
12100-0090	0.90	3.00	0.45	39.00	1.35
12100-0100	1.00	3.00	0.50	39.00	1.50
12100-0110	1.10	3.00	0.55	39.00	1.65
12100-0120	1.20	3.00	0.60	39.00	1.80
12100-0130	1.30	3.00	0.65	39.00	1.95
12100-0140	1.40	3.00	0.70	39.00	2.10
12100-0150	1.50	3.00	0.75	39.00	2.25
12100-0160	1.60	3.00	0.80	39.00	2.40
12100-0180	1.80	3.00	0.90	39.00	2.70
12100-0200	2.00	3.00	1.00	39.00	3.00

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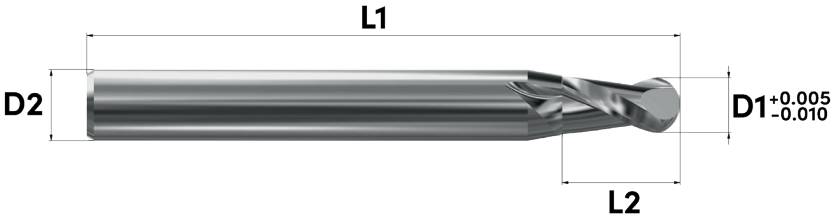
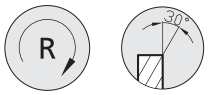
Micro-fraises hémisphériques dégagées 3xØ 2 dents

Ball nose micro end mills necked-down 3xØ 2 teeth

Mikro-Radiusfräsern mit Hinterschliff 3xØ 2 Zähne

1212

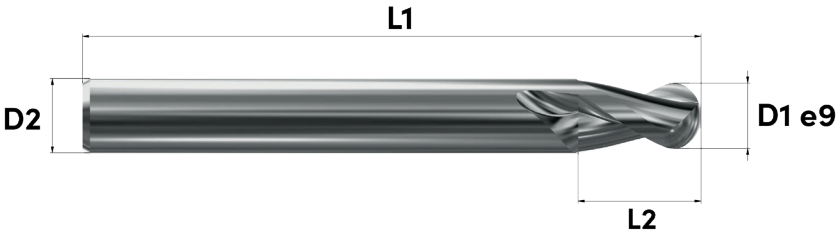


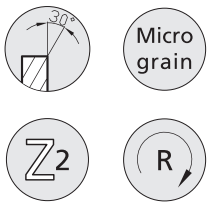


Ref	D1 $^{+0.005}_{-0.010}$	D2 h5	R	L1	L2
1212-0050	0.50	3.00	0.25	39.00	1.50
1212-0060	0.60	3.00	0.30	39.00	1.50
1212-0070	0.70	3.00	0.35	39.00	2.00
1212-0080	0.80	3.00	0.40	39.00	2.00
1212-0090	0.90	3.00	0.45	39.00	2.50
1212-0100	1.00	3.00	0.50	39.00	3.00
1212-0120	1.20	3.00	0.60	39.00	4.00
1212-0140	1.40	3.00	0.70	39.00	4.00
1212-0150	1.50	3.00	0.75	39.00	4.00
1212-0160	1.60	3.00	0.80	39.00	4.00
1212-0180	1.80	3.00	0.90	39.00	5.50
1212-0200	2.00	3.00	1.00	39.00	6.00
1212-0210	2.10	3.00	1.05	39.00	6.00
1212-0220	2.20	3.00	1.10	39.00	6.00
1212-0250	2.50	3.00	1.25	39.00	7.50
1212-0280	2.80	3.00	1.40	39.00	8.40

12200

Fraises hémisphériques 2 dents
Ball nose end mills 2 teeth
Radiusfräsern 2 Zähne





Inox <1500 N/mm2 | Acier <600 N/mm2 | GG | Acier <1200 N/mm2 | Cu CuZn | Acier <1600 N/mm2 | Al AlSi<10% | Inox <700 N/mm2 | TI | Or, Ag | PE

Ref.	D1 e9	D2 h5	R	L1	L2
12200-0200	2.00	2.00	1.00	32.00	8.00
12200-0250	2.50	2.50	1.25	32.00	8.00
12200-0300	3.00	3.00	1.50	32.00	12.00
12200-0350	3.50	3.50	1.75	32.00	12.00
12200-0400	4.00	4.00	2.00	40.00	12.00
12200-0450	4.50	4.50	2.25	50.00	14.00
12200-0500	5.00	5.00	2.50	50.00	14.00
12200-0600	6.00	6.00	3.00	50.00	16.00

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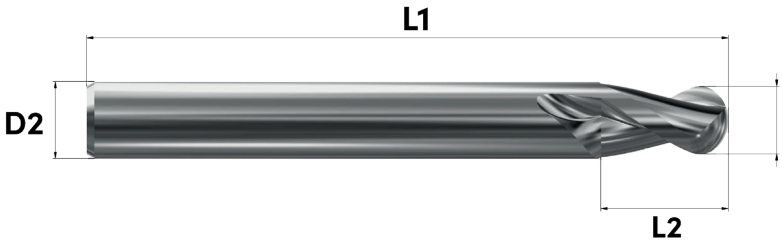
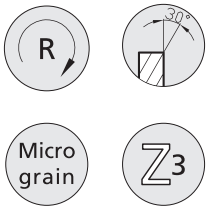
Fraises hémisphériques 3 dents

Ball nose end mills 3 teeth

Radiusfräsern 3 Zähne

1213

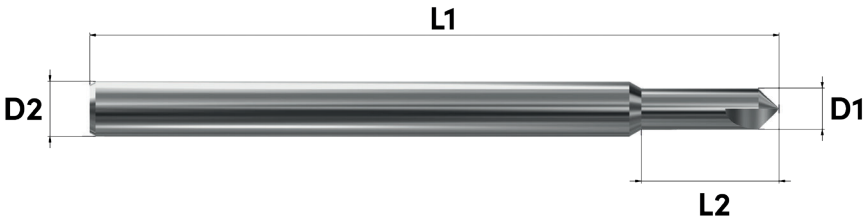


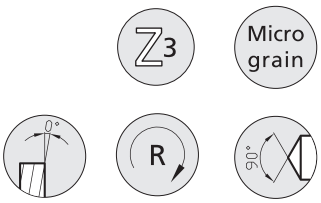


Ref.	D1 e9	D2 h5	R	L1	L2
1213-0200	2.00	2.00	1.00	32.00	8.00
1213-0250	2.50	2.50	1.25	32.00	8.00
1213-0300	3.00	3.00	1.50	32.00	12.00
1213-0350	3.50	3.50	1.75	32.00	12.00
1213-0400	4.00	4.00	2.00	40.00	12.00
1213-0450	4.50	4.50	2.25	50.00	14.00
1213-0500	5.00	5.00	2.50	50.00	14.00
1213-0600	6.00	6.00	3.00	50.00	16.00

1351

Fraises à angler et à chanfreiner
End mills for deburring and chamfering
Fräsern für entgraten und kanten





Ref.	Angle	D1	D2 h5	L1	L2
1351-0050	90°	0.50	3.00	39.00	3.00
1351-0100	90°	1.00	3.00	39.00	3.00
1351-0150	90°	1.50	3.00	39.00	4.50
1351-0200	90°	2.00	3.00	39.00	6.00
1351-0250	90°	2.50	3.00	39.00	7.50
1351-0300	90°	3.00	3.00	39.00	-

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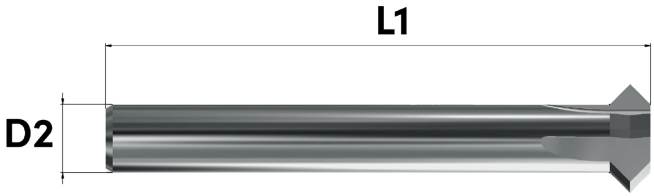
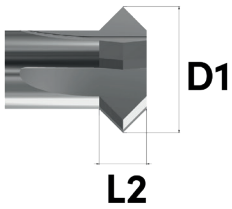
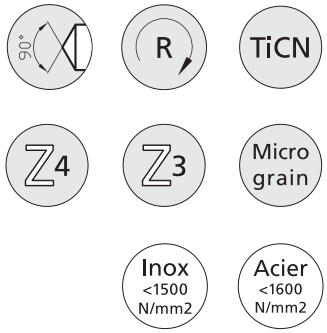
Chanfreineurs doubles 90°

Biconical chamfering cutter 90°
Beidseitige Entgrater 90°

1504





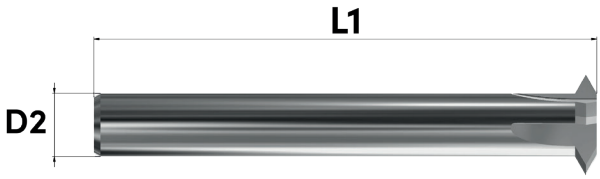


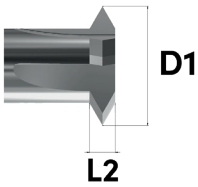
Ref.	Angle	D1	D2 h5	L1	L2	Z
1504-0280-RV03	90°	2.80	2.00	50.00	0.80	3
1504-0350-RV03	90°	3.50	2.00	50.00	1.50	4
1504-0500-RV03	90°	5.00	3.00	60.00	2.00	4
1504-0800-RV03	90°	8.00	5.00	80.00	3.00	4

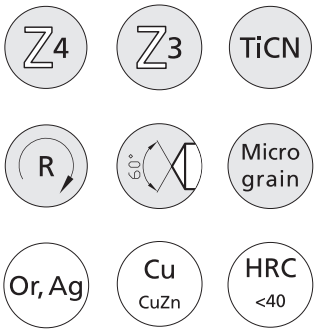
Chanfreineurs doubles 60°

Biconical chamfering cutter 60°
Beidseitige Entgrater 60°

1505



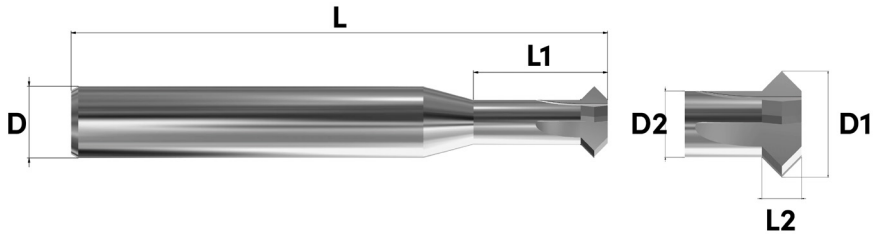


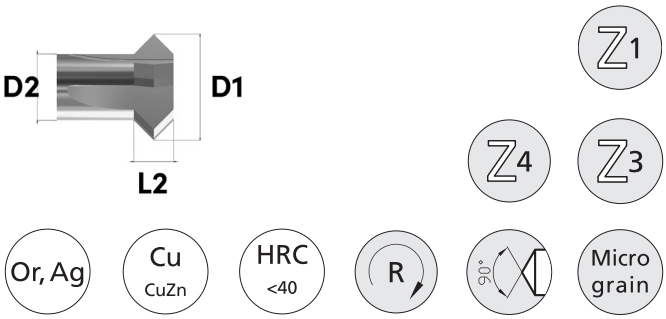


Ref.	Angle	D1	D2 h5	L1	L2	Z
1505-0280-RV03	60°	2.80	2.00	50.00	0.46	3
1505-0350-RV03	60°	3.50	2.00	50.00	0.85	4
1505-0500-RV03	60°	5.00	3.00	60.00	1.10	4
1505-0800-RV03	60°	8.00	5.00	80.00	1.70	4

1506

Chanfreineurs doubles
Biconical chamfering cutter
Beidseitige Entgrater





Ref.	D	D1	D2	L	L1	Z
1506-0020	3.00	0.20	0.12	38.00	0.40	1.00
1506-0025	3.00	0.25	0.15	38.00	0.50	1.00
1506-0030	3.00	0.30	0.18	38.00	0.60	1.00
1506-0040	3.00	0.40	0.24	38.00	0.80	1.00
1506-0050	3.00	0.50	0.30	38.00	1.00	1.00
1506-0060	3.00	0.60	0.36	38.00	1.20	3.00
1506-0070	3.00	0.70	0.42	38.00	1.40	3.00
1506-0080	3.00	0.80	0.48	38.00	1.60	3.00
1506-0090	3.00	0.90	0.54	38.00	1.80	3.00
1506-0100	3.00	1.00	0.60	38.00	2.00	3.00
1506-0120	3.00	1.20	0.70	38.00	2.40	4.00
1506-0130	3.00	1.30	0.70	38.00	2.60	4.00
1506-0180	3.00	1.80	1.00	38.00	5.40	4.00

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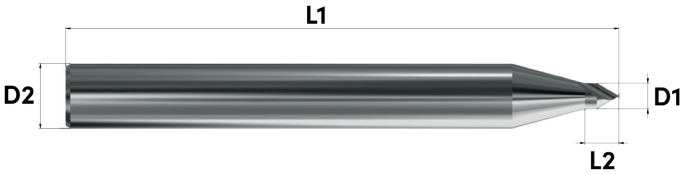
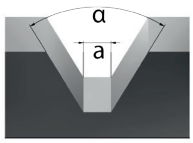
Fraises à graver ¾
Engraving tools ¾
Graviersticheln ¾

13619





Micro grain

Z1

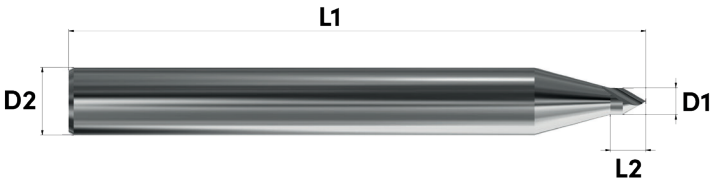
R

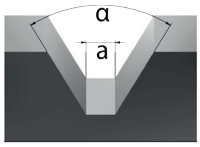
Or, Ag | TI | Al AlSi<10% | Cu CuZn | GG | Inox <1500 N/mm2 | Acier <1600 N/mm2

Ref.	a	D1	D2 h5	L1	L2	Angle α
13619-30-004	0.04	0.6	3.00	33.00	1.80	30°
13619-30-005	0.05	0.6	3.00	33.00	1.80	30°
13619-30-006	0.06	0.6	3.00	33.00	1.80	30°
13619-30-007	0.07	0.6	3.00	33.00	1.80	30°
13619-30-008	0.08	0.6	3.00	33.00	1.80	30°
13619-30-009	0.09	0.6	3.00	33.00	1.80	30°
13619-30-010	0.10	0.6	3.00	33.00	1.80	30°
13619-40-004	0.04	0.6	3.00	33.00	1.80	40°
13619-40-005	0.05	0.6	3.00	33.00	1.80	40°
13619-40-006	0.06	0.6	3.00	33.00	1.80	40°
13619-40-007	0.07	0.6	3.00	33.00	1.80	40°
13619-40-008	0.08	0.6	3.00	33.00	1.80	40°
13619-40-009	0.09	0.6	3.00	33.00	1.80	40°
13619-40-010	0.10	0.6	3.00	33.00	1.80	40°
13619-50-004	0.04	1.00	3.00	33.00	2.00	50°
13619-50-005	0.05	1.00	3.00	33.00	2.00	50°
13619-50-006	0.06	1.00	3.00	33.00	2.00	50°
13619-50-007	0.07	1.00	3.00	33.00	2.00	50°
13619-50-008	0.08	1.00	3.00	33.00	2.00	50°
13619-50-009	0.09	1.00	3.00	33.00	2.00	50°
13619-50-010	0.10	1.00	3.00	33.00	2.00	50°
13619-60-004	0.04	1.00	3.00	33.00	2.00	60°
13619-60-005	0.05	1.00	3.00	33.00	2.00	60°
13619-60-006	0.06	1.00	3.00	33.00	2.00	60°
13619-60-007	0.07	1.00	3.00	33.00	2.00	60°
13619-60-008	0.08	1.00	3.00	33.00	2.00	60°
13619-60-009	0.09	1.00	3.00	33.00	2.00	60°
13619-60-010	0.10	1.00	3.00	33.00	2.00	60°

13620

Fraises à graver ½ avec plat en bout
Engraving mills ½ with flat bottom
Graviersticheln ½ mit Fläche





Z1 | Micro grain | 0° | R

Acier <600 N/mm2 | Acier <1200 N/mm2 | Acier <1600 N/mm2 | Inox <700 N/mm2 | Inox <1500 N/mm2 | GG | Cu CuZn | Al AlSi<10% | Ti | PE | Or, Ag

Ref.	a	D2 h5	L1	Angle α
13620-30-002	0.02	3.00	33.00	30°
13620-30-004	0.04	3.00	33.00	30°
13620-30-005	0.05	3.00	33.00	30°
13620-30-006	0.06	3.00	33.00	30°
13620-30-008	0.08	3.00	33.00	30°
13620-30-010	0.10	3.00	33.00	30°
13620-30-012	0.12	3.00	33.00	30°
13620-30-015	0.15	3.00	33.00	30°
13620-40-002	0.02	3.00	33.00	40°
13620-40-004	0.04	3.00	33.00	40°
13620-40-005	0.05	3.00	33.00	40°
13620-40-006	0.06	3.00	33.00	40°
13620-40-008	0.08	3.00	33.00	40°
13620-40-010	0.10	3.00	33.00	40°
13620-40-012	0.12	3.00	33.00	40°
13620-40-015	0.15	3.00	33.00	40°
13620-50-002	0.02	3.00	33.00	50°
13620-50-004	0.04	3.00	33.00	50°
13620-50-005	0.05	3.00	33.00	50°
13620-50-006	0.06	3.00	33.00	50°
13620-50-008	0.08	3.00	33.00	50°
13620-50-010	0.10	3.00	33.00	50°
13620-50-012	0.12	3.00	33.00	50°
13620-50-015	0.15	3.00	33.00	50°

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Fraises à graver ½ avec plat en bout

Engraving mills ½ with flat bottom

Graviersticheln ½ mit Fläche

13620

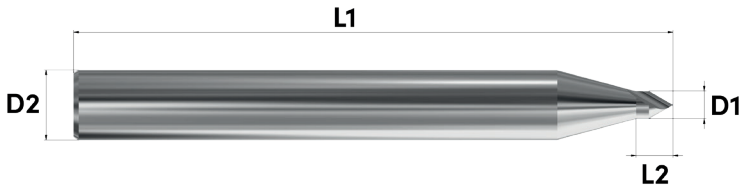
Ref.	a	D2 h5	L1	Angle α
13620-60-002	0.02	3.00	33.00	60°
13620-60-004	0.04	3.00	33.00	60°
13620-60-005	0.05	3.00	33.00	60°
13620-60-006	0.06	3.00	33.00	60°
13620-60-008	0.08	3.00	33.00	60°
13620-60-010	0.10	3.00	33.00	60°
13620-60-012	0.12	3.00	33.00	60°
13620-60-015	0.15	3.00	33.00	60°
13620-90-002	0.02	3.00	33.00	90°
13620-90-004	0.04	3.00	33.00	90°
13620-90-005	0.05	3.00	33.00	90°
13620-90-006	0.06	3.00	33.00	90°
13620-90-008	0.08	3.00	33.00	90°
13620-90-010	0.10	3.00	33.00	90°
13620-90-012	0.12	3.00	33.00	90°
13620-90-015	0.15	3.00	33.00	90°

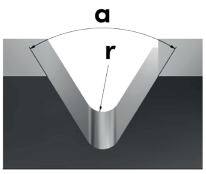
13621

Fraises à graver ½ avec rayon en bout

Engraving mills ½ with radius bottom

Graviersticheln ½ mit Radius





Z1 | Micro grain | 0° | R

Or, Ag | PE | TI | Al AlSi<10% | Cu CuZn | GG | Inox <1500 N/mm2 | Inox <700 N/mm2 | Acier <1600 N/mm2 | Acier <1200 N/mm2 | Acier <600 N/mm2

Ref.	r	D2 h5	L1	Angle α
13621-30-004	0.04	3.00	33.00	30°
13621-30-005	0.05	3.00	33.00	30°
13621-30-006	0.06	3.00	33.00	30°
13621-30-007	0.07	3.00	33.00	30°
13621-30-008	0.08	3.00	33.00	30°
13621-30-009	0.09	3.00	33.00	30°
13621-30-010	0.10	3.00	33.00	30°
13621-40-004	0.04	3.00	33.00	40°
13621-40-005	0.05	3.00	33.00	40°
13621-40-006	0.06	3.00	33.00	40°
13621-40-007	0.07	3.00	33.00	40°
13621-40-008	0.08	3.00	33.00	40°
13621-40-009	0.09	3.00	33.00	40°
13621-40-010	0.10	3.00	33.00	40°
13621-50-004	0.04	3.00	33.00	50°
13621-50-005	0.05	3.00	33.00	50°
13621-50-006	0.06	3.00	33.00	50°
13621-50-007	0.07	3.00	33.00	50°
13621-50-008	0.08	3.00	33.00	50°
13621-50-009	0.09	3.00	33.00	50°
13621-50-010	0.10	3.00	33.00	50°

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Fraises à graver ½ avec rayon en bout

Engraving mills ½ with radius bottom

Graviersticheln ½ mit Radius

13621

Ref.	r	D2 h5	L1	Angle α
13621-60-004	0.04	3.00	33.00	60°
13621-60-005	0.05	3.00	33.00	60°
13621-60-006	0.06	3.00	33.00	60°
13621-60-007	0.07	3.00	33.00	60°
13621-60-008	0.08	3.00	33.00	60°
13621-60-009	0.09	3.00	33.00	60°
13621-60-010	0.10	3.00	33.00	60°
13621-90-004	0.04	3.00	33.00	90°
13621-90-005	0.05	3.00	33.00	90°
13621-90-006	0.06	3.00	33.00	90°
13621-90-007	0.07	3.00	33.00	90°
13621-90-008	0.08	3.00	33.00	90°
13621-90-009	0.09	3.00	33.00	90°
13621-90-010	0.10	3.00	33.00	90°

PERÇAGE

CENTREURS P.3

FORETS P.4

FRAISAGE

FRAISES EN BOUT P.56 / **FRAISES Z1** P.56 / **FRAISES Z2** P.58
FRAISES Z3 P.66 / **FRAISES Z4** P.77 / **FRAISES Z6-8** P.80
FRAISES HÉMISPHÉRIQUES P.81 / **FRAISES À ANGLER** P.86 / **FRAISES À GRAVER** P.89

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FRAISES À PLAQUETTES

FRAISES À PLAQUETTES ENTRE-CORNES P.120

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ÉCROUS P.122

PINCES DE SERRAGES P.123

TOURNAGE

TRONCONNAGE - CUTTING - TRENNEN

CONDITIONS DE COUPE - CUTTING CONDITIONS- SCHNITTDATEN

Matière	Acier non allié / faiblement allié < 600 N/mm2		Acier faiblement allié /Acier fortement allié 700-1500N/mm2		Aciers et fontes / fortement alliés / Acier inoxydable < 1500 N/mm2		Alliages de cuivre / Or / Argent /		Aluminium /alliages d'aluminium et Plastique		Alliages spéciaux, Inconel, Nimonic, Hastelloy acier inoxydable réfractaire		Titane	
Werkstoff	Unlegierte/niedrig legierte Stähle < 600 N/mm2		Unlegierte/niedrig /legierte Stähle / 700 – 1500 N/mm2		Hochlegierte Stähle / Guss / Rostfreie Stähle < 1500 N/mm2		Kupfer-Kupferlegierung / Gold / Silber		Aluminium / Aluminiumlegierung / Kunststoff		Sonderlegierungen Inconel, Nimonic, Hastelloy warmfeste rostfreie Stähle		Titan, Titanlegierung	
Material	Unalloyed steel < 600 N/mm2		Unalloyed & alloyed steel / low alloyed steel 700 – 1500 N/mm2		High alloyed steel / Heat resisting stainless steel < 1500 N/mm2		Copper alloyGold / Silver		Aluminium / Aluminium alloy / Plastic		Special alloys Inconel, Nimonic, Hastelloy heat resisting stainless steel		Titanium	
Ø D1 (mm)	Vc (m/min)	fz (mm)	Vc (m/min)	fz (mm)	Vc (m/min)	fz (mm)	Vc (m/min)	fz (mm)	Vc (m/min)	fz (mm)	Vc (m/min)	fz (mm)	Vc (m/min)	fz (mm)
15 - 30	80 - 160	0.002 - 0.004	50 - 80	0.001 - 0.004	50 - 80	0.001 - 0.004	140 - 180	0.003 - 0.007	150 - 300	0.003 - 0.007	15 - 40	0.001 - 0.004	30 - 70	0.001 - 0.004
30 - 50		0.003 - 0.007		0.002 - 0.005		0.002 - 0.005		0.004 - 0.008		0.004 - 0.008		0.002 - 0.005		0.002 - 0.005
50 - 80		0.004 - 0.008		0.002 - 0.008		0.002 - 0.008		0.005 - 0.010		0.005 - 0.010		0.002 - 0.008		0.002 - 0.008
80 - 125		0.004 - 0.012		0.003 - 0.012		0.003 - 0.012		0.005 - 0.010		0.005 - 0.010		0.003 - 0.012		0.003 - 0.012
125 - 160		0.004 - 0.012		0.003 - 0.012		0.003 - 0.012		0.005 - 0.012		0.005 - 0.012		0.003 - 0.012		0.003 - 0.012

$$n\,[min^{-1}] = \frac{Vc\,[m/min] \times 1000}{\pi \times D1\,[mm]}$$

$$Vf\,[mm/min] = n\,[min^{-1}] \times fz\,[mm] \times Z$$

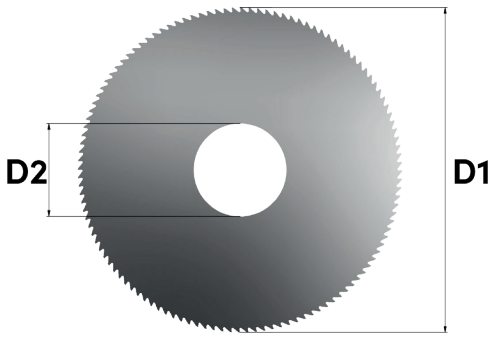
N = Vitesse de rotation en tr/min
Vc = Vitesse de coupe en m/min
p = 3,14
Ø = Diam. de la fraise en mm

N = Rotational speed in tr/min
Vc = Cutting speed in m/min
p = 3,14
Ø = Diameter of the milling cutter in mm

N = Dre in tr/min
Vc = Cutting speed in m/min
p = 3,14
Ø = Diameter of the milling cutter in mm

1701

Fraises scies denture fine
Slitting saws fine teeth
Kreissägeblätter feine Verzahnung



Réf.	D1	D2 H7	Épaisseur	Z
1701-15/5-0.10 Z64	15.00	5.00	0.10	64
1701-15/5-0.15 Z64	15.00	5.00	0.15	64
1701-15/5-0.20 Z64	15.00	5.00	0.20	64
1701-15/5-0.25 Z64	15.00	5.00	0.25	64
1701-15/5-0.30 Z64	15.00	5.00	0.30	64
1701-15/5-0.35 Z64	15.00	5.00	0.35	64
1701-15/5-0.40 Z64	15.00	5.00	0.40	64
1701-15/5-0.45 Z48	15.00	5.00	0.45	48
1701-15/5-0.50 Z48	15.00	5.00	0.50	48
1701-15/5-0.60 Z48	15.00	5.00	0.60	48
1701-15/5-0.70 Z48	15.00	5.00	0.70	48
1701-15/5-0.80 Z40	15.00	5.00	0.80	40
1701-15/5-0.90 Z40	15.00	5.00	0.90	40
1701-15/5-1.00 Z40	15.00	5.00	1.00	40
1701-15/5-1.10 Z40	15.00	5.00	1.10	40
1701-15/5-1.20 Z40	15.00	5.00	1.20	40
1701-15/5-1.30 Z40	15.00	5.00	1.30	40
1701-15/5-1.40 Z40	15.00	5.00	1.40	40
1701-15/5-1.50 Z40	15.00	5.00	1.50	40
1701-15/5-1.60 Z40	15.00	5.00	1.60	40
1701-15/5-1.70 Z40	15.00	5.00	1.70	40
1701-15/5-1.80 Z40	15.00	5.00	1.80	40
1701-15/5-1.90 Z40	15.00	5.00	1.90	40
1701-15/5-2.00 Z40	15.00	5.00	2.00	40
1701-20/5-0.10 Z80	20.00	5.00	0.10	80
1701-20/5-0.15 Z80	20.00	5.00	0.15	80
1701-20/5-0.20 Z80	20.00	5.00	0.20	80
1701-20/5-0.25 Z64	20.00	5.00	0.25	64
1701-20/5-0.30 Z64	20.00	5.00	0.30	64
1701-20/5-0.35 Z64	20.00	5.00	0.35	64
1701-20/5-0.40 Z64	20.00	5.00	0.40	64
1701-20/5-0.45 Z48	20.00	5.00	0.45	48

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Fraises scies denture fine

Slitting saws fine teeth

Kreissägeblätter feine Verzahnung

1701

Réf.	D1	D2 H7	Épaisseur	Z
1701-20/5-0.50 Z48	20.00	5.00	0.50	48
1701-20/5-0.60 Z48	20.00	5.00	0.60	48
1701-20/5-0.70 Z48	20.00	5.00	0.70	48
1701-20/5-0.80 Z40	20.00	5.00	0.80	40
1701-20/5-0.90 Z40	20.00	5.00	0.90	40
1701-20/5-1.00 Z40	20.00	5.00	1.00	40
1701-20/5-1.10 Z40	20.00	5.00	1.10	40
1701-20/5-1.20 Z40	20.00	5.00	1.20	40
1701-20/5-1.30 Z40	20.00	5.00	1.30	40
1701-20/5-1.40 Z40	20.00	5.00	1.40	40
1701-20/5-1.50 Z40	20.00	5.00	1.50	40
1701-20/5-1.60 Z40	20.00	5.00	1.60	40
1701-20/5-1.70 Z32	20.00	5.00	1.70	32
1701-20/5-1.80 Z32	20.00	5.00	1.80	32
1701-20/5-1.90 Z32	20.00	5.00	1.90	32
1701-20/5-2.00 Z32	20.00	5.00	2.00	32
1701-25/8-0.10 Z80	25.00	8.00	0.10	80
1701-25/8-0.15 Z80	25.00	8.00	0.15	80
1701-25/8-0.20 Z80	25.00	8.00	0.20	80
1701-25/8-0.25 Z80	25.00	8.00	0.25	80
1701-25/8-0.30 Z80	25.00	8.00	0.30	80
1701-25/8-0.35 Z64	25.00	8.00	0.35	64
1701-25/8-0.40 Z64	25.00	8.00	0.40	64
1701-25/8-0.45 Z64	25.00	8.00	0.45	64
1701-25/8-0.50 Z64	25.00	8.00	0.50	64
1701-25/8-0.60 Z64	25.00	8.00	0.60	64
1701-25/8-0.70 Z48	25.00	8.00	0.70	48
1701-25/8-0.80 Z48	25.00	8.00	0.80	48
1701-25/8-0.90 Z48	25.00	8.00	0.90	48
1701-25/8-1.00 Z48	25.00	8.00	1.00	48
1701-25/8-1.10 Z48	25.00	8.00	1.10	48
1701-25/8-1.20 Z48	25.00	8.00	1.20	48
1701-25/8-1.30 Z40	25.00	8.00	1.30	40
1701-25/8-1.40 Z40	25.00	8.00	1.40	40
1701-25/8-1.50 Z40	25.00	8.00	1.50	40
1701-25/8-1.60 Z40	25.00	8.00	1.60	40
1701-25/8-1.70 Z40	25.00	8.00	1.70	40
1701-25/8-1.80 Z40	25.00	8.00	1.80	40
1701-25/8-1.90 Z40	25.00	8.00	1.90	40
1701-25/8-2.00 Z40	25.00	8.00	2.00	40

1701

Fraises scies denture fine
Slitting saws fine teeth
Kreissägeblätter feine Verzahnung

Réf.	D1	D2 H7	Épaisseur	Z
1701-30/8-0.10 Z100	30.00	8.00	0.10	100
1701-30/8-0.15 Z100	30.00	8.00	0.15	100
1701-30/8-0.20 Z100	30.00	8.00	0.20	100
1701-30/8-0.25 Z100	30.00	8.00	0.25	100
1701-30/8-0.30 Z80	30.00	8.00	0.30	80
1701-30/8-0.35 Z80	30.00	8.00	0.35	80
1701-30/8-0.40 Z80	30.00	8.00	0.40	80
1701-30/8-0.45 Z80	30.00	8.00	0.45	80
1701-30/8-0.50 Z80	30.00	8.00	0.50	80
1701-30/8-0.60 Z64	30.00	8.00	0.60	64
1701-30/8-0.70 Z64	30.00	8.00	0.70	64
1701-30/8-0.80 Z64	30.00	8.00	0.80	64
1701-30/8-0.90 Z64	30.00	8.00	0.90	64
1701-30/8-1.00 Z64	30.00	8.00	1.00	64
1701-30/8-1.10 Z48	30.00	8.00	1.10	48
1701-30/8-1.20 Z48	30.00	8.00	1.20	48
1701-30/8-1.30 Z48	30.00	8.00	1.30	48
1701-30/8-1.40 Z48	30.00	8.00	1.40	48
1701-30/8-1.50 Z48	30.00	8.00	1.50	48
1701-30/8-1.60 Z48	30.00	8.00	1.60	48
1701-30/8-1.70 Z48	30.00	8.00	1.70	48
1701-30/8-1.80 Z48	30.00	8.00	1.80	48
1701-30/8-1.90 Z48	30.00	8.00	1.90	48
1701-30/8-2.00 Z48	30.00	8.00	2.00	48
1701-40/10-0.10 Z128	40.00	10.00	0.10	128
1701-40/10-0.15 Z128	40.00	10.00	0.15	128
1701-40/10-0.20 Z128	40.00	10.00	0.20	128
1701-40/10-0.25 Z100	40.00	10.00	0.25	100
1701-40/10-0.30 Z100	40.00	10.00	0.30	100
1701-40/10-0.35 Z100	40.00	10.00	0.35	100
1701-40/10-0.40 Z100	40.00	10.00	0,40	100
1701-40/10-0.45 Z80	40.00	10.00	0.45	80
1701-40/10-0.50 Z80	40.00	10.00	0.50	80
1701-40/10-0.60 Z80	40.00	10.00	0.60	80
1701-40/10-0.70 Z80	40.00	10.00	0.70	80
1701-40/10-0.80 Z80	40.00	10.00	0.80	80
1701-40/10-0.90 Z64	40.00	10.00	0.90	64
1701-40/10-1.00 Z64	40.00	10.00	1.00	64
1701-40/10-1.10 Z64	40.00	10.00	1.10	64
1701-40/10-1.20 Z64	40.00	10.00	1.20	64
1701-40/10-1.30 Z64	40.00	10.00	1.30	64
1701-40/10-1.40 Z64	40.00	10.00	1.40	64

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Fraises scies denture fine

Slitting saws fine teeth

Kreissägeblätter feine Verzahnung

1701

Réf.	D1	D2 H7	Épaisseur	Z
1701-40/10-1.50 Z64	40.00	10.00	1.50	64
1701-40/10-1.60 Z64	40.00	10.00	1.60	64
1701-40/10-1.70 Z48	40.00	10.00	1.70	48
1701-40/10-1.80 Z48	40.00	10.00	1.80	48
1701-40/10-1.90 Z48	40.00	10.00	1.90	48
1701-40/10-2.00 Z48	40.00	10.00	2.00	48
1701-50/13-0.20 Z128	50.00	13.00	0.20	128
1701-50/13-0.25 Z128	50.00	13.00	0.25	128
1701-50/13-0.30 Z128	50.00	13.00	0.30	128
1701-50/13-0.35 Z100	50.00	13.00	0.35	100
1701-50/13-0.40 Z100	50.00	13.00	0.40	100
1701-50/13-0.45 Z100	50.00	13.00	0.45	100
1701-50/13-0.50 Z100	50.00	13.00	0.50	100
1701-50/13-0.60 Z100	50.00	13.00	0.60	100
1701-50/13-0.70 Z80	50.00	13.00	0.70	80
1701-50/13-0.80 Z80	50.00	13.00	0.80	80
1701-50/13-0.90 Z80	50.00	13.00	0.90	80
1701-50/13-1.00 Z80	50.00	13.00	1.00	80
1701-50/13-1.10 Z80	50.00	13.00	1.10	80
1701-50/13-1.20 Z80	50.00	13.00	1.20	80
1701-50/13-1.30 Z64	50.00	13.00	1.30	64
1701-50/13-1.40 Z64	50.00	13.00	1.40	64
1701-50/13-1.50 Z64	50.00	13.00	1.50	64
1701-50/13-1.60 Z64	50.00	13.00	1.60	64
1701-50/13-1.70 Z64	50.00	13.00	1.70	64
1701-50/13-1.80 Z64	50.00	13.00	1.80	64
1701-50/13-1.90 Z64	50.00	13.00	1.90	64
1701-50/13-2.00 Z64	50.00	13.00	2.00	64
1701-63/16-0.20 Z128	63.00	16.00	0.20	128
1701-63/16-0.25 Z128	63.00	16.00	0.25	128
1701-63/16-0.30 Z128	63.00	16.00	0.30	128
1701-63/16-0.35 Z128	63.00	16.00	0.35	128
1701-63/16-0.40 Z128	63.00	16.00	0.40	128
1701-63/16-0.45 Z128	63.00	16.00	0.45	128
1701-63/16-0.50 Z128	63.00	16.00	0.50	128
1701-63/16-0.60 Z100	63.00	16.00	0.60	100
1701-63/16-0.70 Z100	63.00	16.00	0.70	100
1701-63/16-0.80 Z100	63.00	16.00	0.80	100
1701-63/16-0.90 Z100	63.00	16.00	0.90	100
1701-63/16-1.00 Z100	63.00	16.00	1.00	100

1701

Fraises scies denture fine
Slitting saws fine teeth
Kreissägeblätter feine Verzahnung

Réf.	D1	D2 H7	Épaisseur	Z
1701-63/16-1.10 Z80	63.00	16.00	1.10	80
1701-63/16-1.20 Z80	63.00	16.00	1.20	80
1701-63/16-1.30 Z80	63.00	16.00	1.30	80
1701-63/16-1.40 Z80	63.00	16.00	1.40	80
1701-63/16-1.50 Z80	63.00	16.00	1.50	80
1701-63/16-1.60 Z80	63.00	16.00	1.60	80
1701-63/16-1.70 Z80	63.00	16.00	1.70	80
1701-63/16-1.80 Z80	63.00	16.00	1,80	80
1701-63/16-1.90 Z80	63.00	16.00	1.90	80
1701-63/16-2.00 Z80	63.00	16.00	2.00	80
1701-80/22-0.30 Z128	80.00	22.00	0.30	128
1701-80/22-0.35 Z128	80.00	22.00	0.35	128
1701-80/22-0.40 Z128	80.00	22.00	0.40	128
1701-80/22-0.45 Z128	80.00	22.00	0.45	128
1701-80/22-0.50 Z128	80.00	22.00	0.50	128
1701-80/22-0.60 Z128	80.00	22.00	0.60	128
1701-80/22-0.70 Z128	80.00	22.00	0.70	128
1701-80/22-0.80 Z128	80.00	22.00	0.80	128
1701-80/22-0.90 Z100	80.00	22.00	0.90	100
1701-80/22-1.00 Z100	80.00	22.00	1.00	100
1701-80/22-1.10 Z100	80.00	22.00	1.10	100
1701-80/22-1.20 Z100	80.00	22.00	1.20	100
1701-80/22-1.30 Z100	80.00	22.00	1.30	100
1701-80/22-1.40 Z100	80.00	22.00	1.40	100
1701-80/22-1.50 Z100	80.00	22.00	1.50	100
1701-80/22-1.60 Z100	80.00	22.00	1.60	100
1701-80/22-1.70 Z80	80.00	22.00	1.70	80
1701-80/22-1.80 Z80	80.00	22.00	1.80	80
1701-80/22-1.90 Z80	80.00	22.00	1.90	80
1701-80/22-2.00 Z80	80.00	22.00	2.00	80
1701-100/22-0.50 Z128	100.00	22.00	0.50	128
1701-100/22-0.60 Z128	100.00	22.00	0.60	128
1701-100/22-0.70 Z128	100.00	22.00	0.70	128
1701-100/22-0.80 Z128	100.00	22.00	0.80	128
1701-100/22-0.90 Z128	100.00	22.00	0.90	128
1701-100/22-1.00 Z128	100.00	22.00	1.00	128
1701-100/22-1.10 Z128	100.00	22.00	1.10	128
1701-100/22-1.20 Z128	100.00	22.00	1.20	128
1701-100/22-1.30 Z100	100.00	22.00	1.30	100

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Fraises scies denture fine

Slitting saws fine teeth

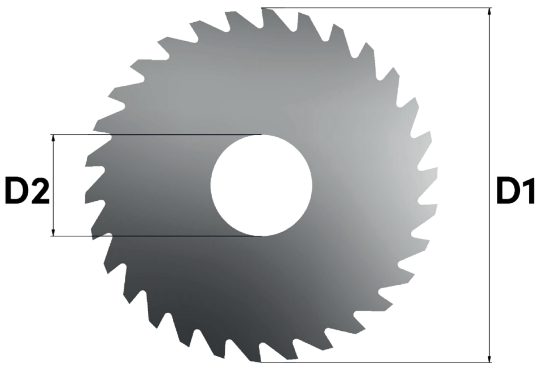
Kreissägeblätter feine Verzahnung

1701

Réf.	D1	D2 H7	Épaisseur	Z
1701-100/22-1.40 Z100	100.00	22.00	1.40	100
1701-100/22-1.50 Z100	100.00	22.00	1.50	100
1701-100/22-1.60 Z100	100.00	22.00	1.60	100
1701-100/22-1.70 Z100	100.00	22.00	1.70	100
1701-100/22-1.80 Z100	100.00	22.00	1.80	100
1701-100/22-1.90 Z100	100.00	22.00	1.90	100
1701-100/22-2.00 Z100	100.00	22.00	2.00	100
1701-125/22-0.60 Z160	125.00	22.00	0.60	160
1701-125/22-0.70 Z160	125.00	22.00	0.70	160
1701-125/22-0.80 Z160	125.00	22.00	0.80	160
1701-125/22-0.90 Z160	125.00	22.00	0.90	160
1701-125/22-1.00 Z160	125.00	22.00	1.00	160
1701-125/22-1.10 Z128	125.00	22.00	1.10	128
1701-125/22-1.20 Z128	125.00	22.00	1.20	128
1701-125/22-1.40 Z128	125.00	22.00	1.40	128
1701-125/22-1.50 Z128	125.00	22.00	1.50	128
1701-125/22-1.60 Z128	125.00	22.00	1.60	128
1701-125/22-1.80 Z128	125.00	22.00	1.80	128
1701-125/22-2.00 Z128	125.00	22.00	2.00	128

1702

Fraises scies denture grossière
Slitting saws large teeth
Kreissägeblätter grobe Verzahnung



Réf.	D1	D2 H7	Épaisseur	Z
1702-15/5-0.20 Z20	15.00	5.00	0.20	20
1702-15/5-0.25 Z20	15.00	5.00	0.25	20
1702-15/5-0.30 Z20	15.00	5.00	0.30	20
1702-15/5-0.40 Z20	15.00	5.00	0.40	20
1702-15/5-0.50 Z20	15.00	5.00	0.50	20
1702-15/5-0.60 Z20	15.00	5.00	0.60	20
1702-15/5-0.70 Z20	15.00	5.00	0.70	20
1702-15/5-0.80 Z20	15.00	5.00	0.80	20
1702-15/5-0.90 Z20	15.00	5.00	0.90	20
1702-15/5-1.00 Z20	15.00	5.00	1.00	20
1702-15/5-1.20 Z20	15.00	5.00	1.20	20
1702-15/5-1.50 Z20	15.00	5.00	1.50	20
1702-15/5-1.60 Z20	15.00	5.00	1.60	20
1702-15/5-1.80 Z20	15.00	5.00	1.80	20
1702-15/5-2.00 Z20	15.00	5.00	2.00	20
1702-20/5-0.20 Z20	20.00	5.00	0.20	20
1702-20/5-0.25 Z20	20.00	5.00	0.25	20
1702-20/5-0.30 Z20	20.00	5.00	0.30	20
1702-20 /5-0.40 Z20	20.00	5.00	0.40	20
1702-20/5-0.50 Z20	20.00	5.00	0.50	20
1702-20/5-0.60 Z20	20.00	5.00	0.60	20
1702-20/5-0.70 Z20	20.00	5.00	0.70	20
1702-20/5-0.80 Z20	20.00	5.00	0.80	20
1702-20/5-0.90 Z20	20.00	5.00	0.90	20
1702-20/5-1.00 Z20	20.00	5.00	1.00	20
1702-20/5-1.20 Z20	20.00	5.00	1.20	20
1702-20/5-1.50 Z20	20.00	5.00	1.50	20
1702-20/5-1.60 Z20	20.00	5.00	1.60	20
1702-20/5-1.80 Z20	20.00	5.00	1.80	20
1702-20/5-2.00 Z20	20.00	5.00	2.00	20

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Fraises scies denture grossière

Slitting saws large teeth

Kreissägeblätter grobe Verzahnung

1702

Réf.	D1	D2 H7	Épaisseur	Z
1702-25/8-0.20 Z20	25.00	8.00	0.20	20
1702-25/8-0.25 Z20	25.00	8.00	0.25	20
1702-25/8-0.30 Z20	25.00	8.00	0.30	20
1702-25/8-0.40 Z20	25.00	8.00	0.40	20
1702-25/8-0.50 Z20	25.00	8.00	0.50	20
1702-25/8-0.60 Z20	25.00	8.00	0.60	20
1702-25/8-0.70 Z20	25.00	8.00	0.70	20
1702-25/8-0.80 Z20	25.00	8.00	0.80	20
1702-25/8-0.90 Z20	25.00	8.00	0.90	20
1702-25/8-1.00 Z20	25.00	8.00	1.00	20
1702-25/8-1.20 Z20	25.00	8.00	1.20	20
1702-25/8-1.50 Z20	25.00	8.00	1.50	20
1702-25/8-1.60 Z20	25.00	8.00	1.60	20
1702-25/8-1.80 Z20	25.00	8.00	1.80	20
1702-25/8-2.00 Z20	25.00	8.00	2.00	20
1702-30/8-0.20 Z30	30.00	8.00	0.20	30
1702-30/8-0.25 Z30	30.00	8.00	0.25	30
1702-30/8-0.30 Z30	30.00	8.00	0.30	30
1702-30/8-0.40 Z30	30.00	8.00	0.40	30
1702-30/8-0.50 Z30	30.00	8.00	0.50	30
1702-30/8-0.60 Z30	30.00	8.00	0.60	30
1702-30/8-0.70 Z30	30.00	8.00	0.70	30
1702-30/8-0.80 Z24	30.00	8.00	0.80	24
1702-30/8-0.90 Z24	30.00	8.00	0.90	24
1702-30/8-1.00 Z24	30.00	8.00	1.00	24
1702-30/8-1.20 Z24	30.00	8.00	1.20	24
1702-30/8-1.50 Z24	30.00	8.00	1.50	24
1702-30/8-1.60 Z24	30.00	8.00	1.60	24
1702-30/8-1.80 Z24	30.00	8.00	1.80	24
1702-30/8-2.00 Z24	30.00	8.00	2.00	24
1702-40/10-0.20 Z40	40.00	10.00	0.20	40
1702-40/10-0.25 Z40	40.00	10.00	0.25	40
1702-40/10-0.30 Z40	40.00	10.00	0.30	40
1702-40/10-0.40 Z40	40.00	10.00	0.40	40
1702-40/10-0.50 Z40	40.00	10.00	0.50	40
1702-40/10-0.60 Z40	40.00	10.00	0.60	40
1702-40/10-0.70 Z40	40.00	10.00	0.70	40
1702-40/10-0.80 Z32	40.00	10.00	0.80	32
1702-40/10-0.90 Z32	40.00	10.00	0.90	32
1702-40/10-1.00 Z32	40.00	10.00	1.00	32

1702

Fraises scies denture grossière
Slitting saws large teeth
Kreissägeblätter grobe Verzahnung

Réf.	D1	D2 H7	Épaisseur	Z
1702-40/10-1.20 Z32	40.00	10.00	1.20	32
1702-40/10-1.50 Z32	40.00	10.00	1.50	32
1702-40/10-1.60 Z32	40.00	10.00	1.60	32
1702-40/10-1.80 Z24	40.00	10.00	1.80	24
1702-40/10-2.00 Z24	40.00	10.00	2.00	24
1702-50/13-0.40 Z48	50.00	13.00	0.40	48
1702-50/13-0.50 Z48	50.00	13.00	0.50	48
1702-50/13-0.60 Z48	50.00	13.00	0.60	48
1702-50/13-0.70 Z40	50.00	13.00	0.70	40
1702-50/13-0.80 Z40	50.00	13.00	0.80	40
1702-50/13-0.90 Z40	50.00	13.00	0.90	40
1702-50/13-1.00 Z40	50.00	13.00	1.00	40
1702-50/13-1.20 Z40	50.00	13.00	1.20	40
1702-50/13-1.50 Z32	50.00	13.00	1.50	32
1702-50/13-1.60 Z32	50.00	13.00	1.60	32
1702-50/13-1.80 Z32	50.00	13.00	1.80	32
1702-50/13-2.00 Z32	50.00	13.00	2.00	32
1702-63/16-0.40 Z64	63.00	16.00	0.40	64
1702-63/16-0.50 Z64	63.00	16.00	0.50	64
1702-63/16-0.60 Z48	63.00	16.00	0.60	48
1702-63/16-0.70 Z48	63.00	16.00	0.70	48
1702-63/16-0.80 Z48	63.00	16.00	0.80	48
1702-63/16-0.90 Z48	63.00	16.00	0.90	48
1702-63/16-1.00 Z48	63.00	16.00	1.00	48
1702-63/16-1.20 Z40	63.00	16.00	1.20	40
1702-63/16-1.50 Z40	63.00	16.00	1.50	40
1702-63/16-1.60 Z40	63.00	16.00	1.60	40
1702-63/16-1.80 Z40	63.00	16.00	1.80	40
1702-63/16-2.00 Z40	63.00	16.00	2.00	40
1702-80/22-0.60 Z64	80.00	22.00	0.60	64
1702-80/22-0.70 Z64	80.00	22.00	0.70	64
1702-80/22-0.80 Z64	80.00	22.00	0.80	64
1702-80/22-0.90 Z48	80.00	22.00	0.90	48
1702-80/22-1.00 Z48	80.00	22.00	1.00	48
1702-80/22-1.20 Z48	80.00	22.00	1.20	48
1702-80/22-1.50 Z48	80.00	22.00	1.50	48
1702-80/22-1.60 Z48	80.00	22.00	1.60	48
1702-80/22-1.80 Z40	80.00	22.00	1.80	40
1702-80/22-2.00 Z40	80.00	22.00	2.00	40

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Fraises scies denture grossière

Slitting saws fine teeth

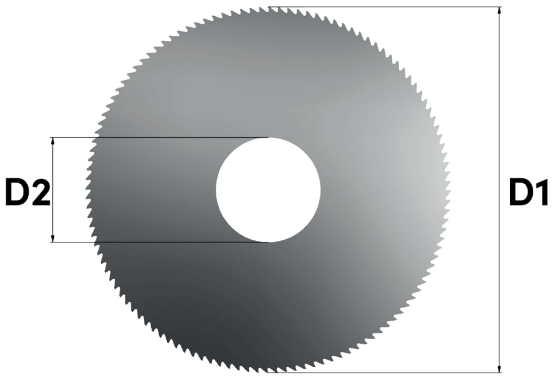
Kreissägeblätter grobe Verzahnung

1702

Réf.	D1	D2 H7	Épaisseur	Z
1702-100/22-0.60 Z80	100.00	22.00	0.60	80
1702-100/22-0.70 Z64	100.00	22.00	0.70	64
1702-100/22-0.80 Z64	100.00	22.00	0.80	64
1702-100/22-0.90 Z64	100.00	22.00	0.90	64
1702-100/22-1.00 Z64	100.00	22.00	1.00	64
1702-100/22-1.20 Z64	100.00	22.00	1.20	64
1702-100/22-1.50 Z48	100.00	22.00	1.50	48
1702-100/22-1.60 Z48	100.00	22.00	1.60	48
1702-100/22-1.80 Z48	100.00	22.00	1.80	48
1702-100/22-2.00 Z48	100.00	22.00	2.00	48
1702-125/22-0.80 Z80	125.00	22.00	0.80	80
1702-125/22-0.90 Z80	125.00	22.00	0.90	80
1702-125/22-1.00 Z80	125.00	22.00	1.00	80
1702-125/22-1.20 Z64	125.00	22.00	1.20	64
1702-125/22-1.50 Z64	125.00	22.00	1.50	64
1702-125/22-1.60 Z64	125.00	22.00	1.60	64
1702-125/22-1.80 Z64	125.00	22.00	1.80	64
1702-125/22-2.00 Z64	125.00	22.00	2.00	64

1703

Fraises scies denture extra-fine
Slitting saws extra fine teeth
Kreissägeblätter extra feine Verzahnung



Réf.	D1	D2 H7	Épaisseur	Z
1703-8/3-0.10 Z48	8.00	3.00	0.10	48
1703-8/3-0.15 Z48	8.00	3.00	0.15	48
1703-8/3-0.20 Z48	8.00	3.00	0.20	48
1703-8/3-0.25 Z48	8.00	3.00	0.25	48
1703-8/3-0.30 Z48	8.00	3.00	0.30	48
1703-8/3-0.35 Z48	8.00	3.00	0.35	48
1703-8/3-0.40 Z48	8.00	3.00	0.40	48
1703-8/3-0.50 Z48	8.00	3.00	0.50	48
1703-8/3-0.60 Z48	8.00	3.00	0.60	48
1703-8/3-0.70 Z48	8.00	3.00	0.70	48
1703-8/3-0.80 Z48	8.00	3.00	0.80	48
1703-8/3-0.90 Z48	8.00	3.00	0.90	48
1703-8/3-1.00 Z48	8.00	3.00	1.00	48
1703-10/3-0.10 Z64	10.00	3.00	0.10	64
1703-10/3-0.15 Z64	10.00	3.00	0.15	64
1703-10/3-0.20 Z64	10.00	3.00	0.20	64
1703-10/3-0.25 Z64	10.00	3.00	0.25	64
1703-10/3-0.30 Z64	10.00	3.00	0.30	64
1703-10/3-0.35 Z64	10.00	3.00	0.35	64
1703-10/3-0.40 Z64	10.00	3.00	0.40	64
1703-10/3-0.50 Z64	10.00	3.00	0.50	64
1703-10/3-0.60 Z64	10.00	3.00	0.60	64
1703-10/3-0.70 Z64	10.00	3.00	0.70	64
1703-10/3-0.80 Z64	10.00	3.00	0.80	64
1703-10/3-0.90 Z64	10.00	3.00	0.90	64
1703-10/3-1.00 Z64	10.00	3.00	1.00	64

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Fraises scies denture extra-fine

Slitting saws extra fine teeth

Kreissägeblätter extra feine Verzahnung

1703

Réf.	D1	D2 H7	Épaisseur	Z
1703-15/5-0.10 Z80	15.00	5.00	0.10	80
1703-15/5-0.15 Z80	15.00	5.00	0.15	80
1703-15/5-0.20 Z80	15.00	5.00	0.20	80
1703-15/5-0.25 Z80	15.00	5.00	0.25	80
1703-15/5-0.30 Z80	15.00	5.00	0.30	80
1703-15/5-0.35 Z80	15.00	5.00	0.35	80
1703-15/5-0.40 Z80	15.00	5.00	0.40	80
1703-15/5-0.50 Z80	15.00	5.00	0.50	80
1703-15/5-0.60 Z80	15.00	5.00	0.60	80
1703-15/5-0.70 Z80	15.00	5.00	0.70	80
1703-15/5-0.80 Z80	15.00	5.00	0.80	80
1703-15/5-0.90 Z80	15.00	5.00	0.90	80
1703-15/5-1.00 Z80	15.00	5.00	1.00	80
1703-15/5-1.20 Z80	15.00	5.00	1.20	80
1703-15/5-1.50 Z80	15.00	5.00	1.50	80
1703-15/5-2.00 Z80	15.00	5.00	2.00	80
1703-20/5-0.10 Z100	20.00	5.00	0.10	100
1703-20/5-0.15 Z100	20.00	5.00	0.15	100
1703-20/5-0.20 Z100	20.00	5.00	0.20	100
1703-20/5-0.25 Z100	20.00	5.00	0.25	100
1703-20/5-0.25 Z80	20.00	5.00	0.25	80
1703-20/5-0.30 Z100	20.00	5.00	0.30	100
1703-20/5-0.30 Z80	20.00	5.00	0.30	80
1703-20/5-0.35 Z80	20.00	5.00	0.35	80
1703-20/5-0.40 Z100	20.00	5.00	0.40	100
1703-20/5-0.40 Z80	20.00	5.00	0.40	80
1703-20/5-0.50 Z100	20.00	5.00	0.50	100
1703-20/5-0.50 Z80	20.00	5.00	0.50	80
1703-20/5-0.60 Z80	20.00	5.00	0.60	80
1703-20/5-0.70 Z80	20.00	5.00	0.70	80
1703-20/5-0.80 Z80	20.00	5.00	0.80	80
1703-20/5-0.90 Z80	20.00	5.00	0.90	80
1703-20/5-1.00 Z80	20.00	5.00	1.00	80
1703-20/5-1.20 Z80	20.00	5.00	1.20	80
1703-20/5-1.50 Z80	20.00	5.00	1.50	80
1703-20/5-2.00 Z80	20.00	5.00	2.00	80

1703

Fraises scies denture extra-fine
Slitting saws extra fine teeth
Kreissägeblätter extra feine Verzahnung

Réf.	D1	D2 H7	Épaisseur	Z
1703-20/6-0.10 Z80	20.00	6.00	0.10	80
1703-20/6-0.15 Z80	20.00	6.00	0.15	80
1703-20/6-0.20 Z80	20.00	6.00	0.20	80
1703-20/6-0.25 Z80	20.00	6.00	0.25	80
1703-20/6-0.30 Z80	20.00	6.00	0.30	80
1703-20/6-0.35 Z80	20.00	6.00	0.35	80
1703-20/6-0.40 Z80	20.00	6.00	0.40	80
1703-20/6-0.50 Z80	20.00	6.00	0.50	80
1703-20/6-0.60 Z80	20.00	6.00	0.60	80
1703-20/6-0.70 Z80	20.00	6.00	0.70	80
1703-20/6-0.80 Z80	20.00	6.00	0.80	80
1703-20/6-0.90 Z80	20.00	6.00	0.90	80
1703-20/6-1.00 Z80	20.00	6.00	1.00	80
1703-20/6-1.20 Z80	20.00	6.00	1.20	80
1703-20/6-1.50 Z80	20.00	6.00	1.50	80
1703-20/6-2.00 Z80	20.00	6.00	2.00	80
1703-25/5-0.10 Z80	25.00	5.00	0.10	80
1703-25/5-0.15 Z80	25.00	5.00	0.15	80
1703-25/5-0.20 Z80	25.00	5.00	0.20	80
1703-25/5-0.25 Z80	25.00	5.00	0.25	80
1703-25/5-0.30 Z80	25.00	5.00	0.30	80
1703-25/5-0.35 Z80	25.00	5.00	0.35	80
1703-25/5-0.40 Z80	25.00	5.00	0.40	80
1703-25/5-0.50 Z80	25.00	5.00	0.50	80
1703-25/5-0.60 Z80	25.00	5.00	0.60	80
1703-25/5-0.70 Z80	25.00	5.00	0.70	80
1703-25/5-0.80 Z80	25.00	5.00	0.80	80
1703-25/5-0.90 Z80	25.00	5.00	0.90	80
1703-25/5-1.00 Z80	25.00	5.00	1.00	80
1703-25/5-1.20 Z80	25.00	5.00	1.20	80
1703-25/5-1.50 Z80	25.00	5.00	1.50	80
1703-25/5-2.00 Z80	25.00	5.00	2.00	80
1703-25/6-0.15 Z100	25.00	6.00	0.15	100
1703-25/6-0.20 Z100	25.00	6.00	0.20	100
1703-25/6-0.25 Z100	25.00	6.00	0.25	100
1703-25/6-0.30 Z100	25.00	6.00	0.30	100
1703-25/6-0.35 Z100	25.00	6.00	0.35	100
1703-25/6-0.40 Z100	25.00	6.00	0.40	100
1703-25/6-0.50 Z100	25.00	6.00	0.50	100
1703-25/6-0.60 Z100	25.00	6.00	0.60	100
1703-25/6-0.70 Z100	25.00	6.00	0.70	100
1703-25/6-0.80 Z100	25.00	6.00	0.80	100

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Fraises scies denture extra-fine

Slitting saws extra fine teeth

Kreissägeblätter extra feine Verzahnung

1703

Réf.	D1	D2 H7	Épaisseur	Z
1703-25/6-0.90 Z100	25.00	6.00	0.90	100
1703-25/6-1.00 Z100	25.00	6.00	1.00	100
1703-25/6-1.20 Z100	25.00	6.00	1.20	100
1703-25/6-1.50 Z100	25.00	6.00	1.50	100
1703-25/6-2.00 Z100	25.00	6.00	2.00	100
1703-25/8-0.15 Z100	25.00	8.00	0.15	100
1703-25/8-0.20 Z100	25.00	8.00	0.20	100
1703-25/8-0.25 Z100	25.00	8.00	0.25	100
1703-25/8-0.30 Z100	25.00	8.00	0.30	100
1703-25/8-0.35 Z100	25.00	8.00	0.35	100
1703-25/8-0.40 Z100	25.00	8.00	0.40	100
1703-25/8-0.50 Z100	25.00	8.00	0.50	100
1703-25/8-0.60 Z100	25.00	8.00	0.60	100
1703-25/8-0.70 Z100	25.00	8.00	0.70	100
1703-25/8-0.80 Z100	25.00	8.00	0.80	100
1703-25/8-0.90 Z100	25.00	8.00	0.90	100
1703-25/8-1.00 Z100	25.00	8.00	1.00	100
1703-25/8-1.20 Z100	25.00	8.00	1.20	100
1703-25/8-1.50 Z100	25.00	8.00	1.50	100
1703-25/8-2.00 Z100	25.00	8.00	2.00	100
		8.00		
1703-30/8-0.30 Z100	30.00	8.00	0.30	100
1703-30/8-0.35 Z100	30.00	8.00	0.35	100
1703-30/8-0.40 Z100	30.00	8.00	0.40	100
1703-30/8-0.50 Z100	30.00	8.00	0.50	100
1703-30/8-0.60 Z100	30.00	8.00	0.60	100
1703-30/8-0.70 Z100	30.00	8.00	0.70	100
1703-30/8-0.80 Z100	30.00	8.00	0.80	100
1703-30/8-0.90 Z100	30.00	8.00	0.90	100
1703-30/8-1.00 Z100	30.00	8.00	1.00	100
1703-30/8-1.20 Z100	30.00	8.00	1.20	100
1703-30/8-1.50 Z100	30.00	8.00	1.50	100
1703-30/8-2.00 Z100	30.00	8.00	2.00	100
1703-35/8-0.15 Z96	35.00	8.00	0.15	96
1703-35/8-0.20 Z96	35.00	8.00	0.20	96
1703-35/8-0.25 Z96	35.00	8.00	0.25	96
1703-35/8-0.30 Z96	35.00	8.00	0.30	96
1703-35/8-0.35 Z96	35.00	8.00	0.35	96
1703-35/8-0.40 Z96	35.00	8.00	0.40	96
1703-35/8-0.50 Z96	35.00	8.00	0.50	96
1703-35/8-0.60 Z96	35.00	8.00	0.60	96
1703-35/8-0.70 Z96	35.00	8.00	0.70	96

1703

Fraises scies denture extra-fine
Slitting saws extra fine teeth
Kreissägeblätter extra feine Verzahnung

Réf.	D1	D2 H7	Épaisseur	Z
1703-35/8-0.80 Z96	35.00	8.00	0.80	96
1703-35/8-0.90 Z96	35.00	8.00	0.90	96
1703-35/8-1.00 Z96	35.00	8.00	1.00	96
1703-35/8-1.20 Z96	35.00	8.00	1.20	96
1703-35/8-1.50 Z96	35.00	8.00	1.50	96
1703-35/8-2.00 Z96	35.00	8.00	2.00	96
1703-40/10-0.15 Z100	40.00	10.00	0.15	100
1703-40/10-0.20 Z100	40.00	10.00	0.20	100
1703-40/10-0.50 Z100	40.00	10.00	0.50	100
1703-40/10-0.60 Z100	40.00	10.00	0.60	100
1703-40/10-0.70 Z100	40.00	10.00	0.70	100
1703-40/10-0.80 Z100	40.00	10.00	0.80	100
1703-40/10-0.90 Z100	40.00	10.00	0.90	100
1703-40/10-1.00 Z100	40.00	10.00	1.00	100
1703-40/10-1.20 Z100	40.00	10.00	1.20	100
1703-40/10-1.50 Z100	40.00	10.00	1.50	100
1703-40/10-2.00 Z100	40.00	10.00	2.00	100
1703-40/8-0.15 Z100	40.00	8.00	0.15	100
1703-40/8-0.20 Z100	40.00	8.00	0.20	100
1703-40/8-0.25 Z100	40.00	8.00	0.25	100
1703-40/8-0.30 Z100	40.00	8.00	0.30	100
1703-40/8-0.35 Z100	40.00	8.00	0.35	100
1703-40/8-0.40 Z100	40.00	8.00	0.40	100
1703-40/8-0.50 Z100	40.00	8.00	0.50	100
1703-40/8-0.60 Z100	40.00	8.00	0.60	100
1703-40/8-0.70 Z100	40.00	8.00	0.70	100
1703-40/8-0.80 Z100	40.00	8.00	0.80	100
1703-40/8-0.90 Z100	40.00	8.00	0.90	100
1703-40/8-1.00 Z100	40.00	8.00	1.00	100
1703-40/8-1.20 Z100	40.00	8.00	1.20	100
1703-40/8-1.50 Z100	40.00	8.00	1.50	100
1703-40/8-2.00 Z100	40.00	8.00	2.00	100
1703-50/10-0.20 Z100	50.00	10.00	0.20	100
1703-50/10-0.25 Z100	50.00	10.00	0.25	100
1703-50/10-0.30 Z100	50.00	10.00	0.30	100
1703-50/10-0.35 Z100	50.00	10.00	0.35	100
1703-50/10-0.40 Z100	50.00	10.00	0.40	100
1703-50/10-0.50 Z100	50.00	10.00	0.50	100
1703-50/10-0.60 Z100	50.00	10.00	0.60	100
1703-50/10-0.70 Z100	50.00	10.00	0.70	100
1703-50/10-0.80 Z100	50.00	10.00	0.80	100

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Fraises scies denture extra-fine

Slitting saws extra fine teeth

Kreissägeblätter extra feine Verzahnung

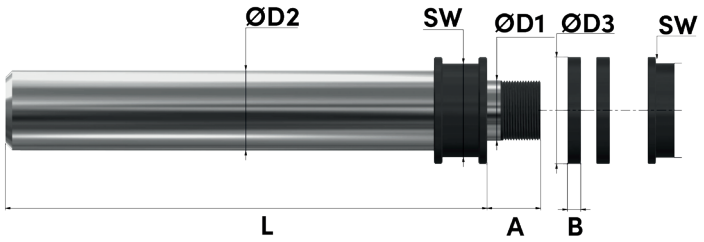
1703

Réf.	D1	D2 H7	Épaisseur	Z
1703-50/10-0.90 Z100	50.00	10.00	0.90	100
1703-50/10-1.00 Z100	50.00	10.00	1.00	100
1703-50/10-1.20 Z100	50.00	10.00	1.20	100
1703-50/10-1.50 Z100	50.00	10.00	1.50	100
1703-50/10-2.00 Z100	50.00	10.00	2.00	100
1703-50/13-0.25 Z120	50.00	13.00	0.25	120
1703-50/13-0.30 Z120	50.00	13.00	0.30	120
1703-50/13-0.35 Z120	50.00	13.00	0.35	120
1703-50/13-0.40 Z120	50.00	13.00	0.40	120
1703-50/13-0.50 Z120	50.00	13.00	0.50	120
1703-50/13-0.60 Z120	50.00	13.00	0.60	120
1703-50/13-0.70 Z120	50.00	13.00	0.70	120
1703-50/13-0.80 Z120	50.00	13.00	0.80	120
1703-50/13-0.90 Z120	50.00	13.00	0.90	120
1703-50/13-1.00 Z120	50.00	13.00	1.00	120
1703-50/13-1.20 Z120	50.00	13.00	1.20	120
1703-50/13-1.50 Z120	50.00	13.00	1.50	120
1703-50/13-2.00 Z120	50.00	13.00	2.00	120
1703-63/16-0.25 Z120	63.00	16.00	0.25	120
1703-63/16-0.30 Z120	63.00	16.00	0.30	120
1703-63/16-0.35 Z120	63.00	16.00	0.35	120
1703-63/16-0.40 Z120	63.00	16.00	0.40	120
1703-63/16-0.50 Z120	63.00	16.00	0.50	120
1703-63/16-0.60 Z120	63.00	16.00	0.60	120
1703-63/16-0.70 Z120	63.00	16.00	0.70	120
1703-63/16-0.80 Z120	63.00	16.00	0.80	120
1703-63/16-0.90 Z120	63.00	16.00	0.90	120
1703-63/16-1.00 Z120	63.00	16.00	1.00	120
1703-63/16-1.20 Z120	63.00	16.00	1.20	120
1703-63/16-1.50 Z120	63.00	16.00	1.50	120
1703-63/16-2.00 Z120	63.00	16.00	2.00	120
1703-80/16-0.50 Z128	80.00	16.00	0.50	128
1703-80/16-0.60 Z128	80.00	16.00	0.60	128
1703-80/16-0.70 Z128	80.00	16.00	0.70	128
1703-80/16-0.80 Z128	80.00	16.00	0.80	128
1703-80/16-0.90 Z128	80.00	16.00	0.90	128
1703-80/16-1.00 Z128	80.00	16.00	1.00	128
1703-80/16-1.20 Z128	80.00	16.00	1.20	128
1703-80/16-1.50 Z128	80.00	16.00	1.50	128
1703-80/16-2.00 Z128	80.00	16.00	2.00	128

1704 Tasseaux pour rotation à droite et serrage avant avec filet à droite

Arbors for right hand rotation and front clamping with right hand thread

Fräsdorne für Drehrichtung rechts und Spannung von vorne mit Rechtsgewinde

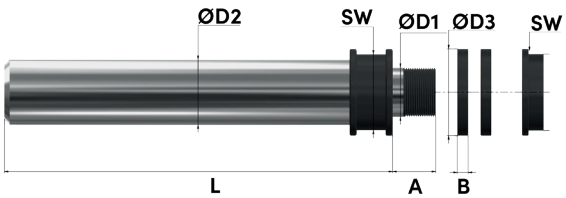


Ref.	D1 h6	D2 h5	D3	L	A	SW	B
1704R-5-6	5.00	6	10	70	9	8	6
1704R-5-10	5.00	10	10	80	9	8	6
1704R-6-10	6.00	10	12	80	9	10	6
1704R-8-10	8.00	10	15	80	10	13	6
1704R-8-12	8.00	12	15	90	10	13	6
1704R-10-6	10.00	6	18	80	10	15	6
1704R-10-10	10.00	10	18	80	10	15	6
1704R-10-16	10.00	16	18	100	10	15	6
1704R-13-16	13.00	16	22	110	11	19	6
1704R-16-20	16.00	20	26	120	12	22	6
1704R-22-16	22.00	16	32	132	13	27	6

1705 Tasseaux pour très petites fraises circulaires

Arbors for very small slitting saws

Fräsdorne für sehr kleine Kreissägeblätter

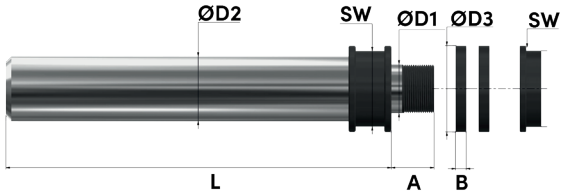


Ref.	D1 h6	D2 h5	D3	L	A	SW	B
1705R-16-10	16.00	10.00	22.00	80.00	8.00	19.00	3.00

1706 Tasseaux pour très petites fraises circulaires

Arbors for very small slitting saws

Fräsdorne für sehr kleine Kreissägeblätter



Ref.	D1 h6	D2 h5	D3	L	A	SW
1706R-3-5	3.00	5	5	60	7	4
1706R-5-6	5.00	6	7.5	70	7	6

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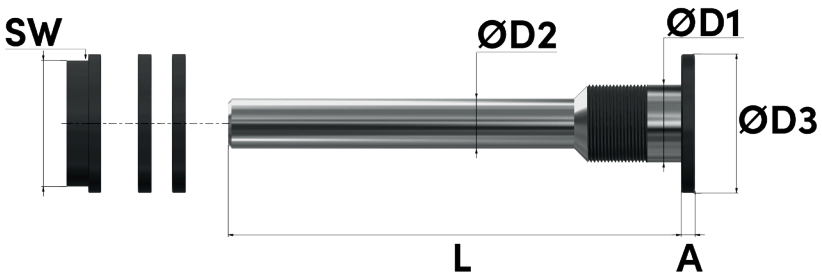
Tasseaux pour rotation à droite et rotation arrière avec filet à gauche

Arbors for right hand rotation and rear clamping with left hand thread

Fräsdorne für Drehrichtung rechts und Spannung von hinten mit Linksgewinde

1707



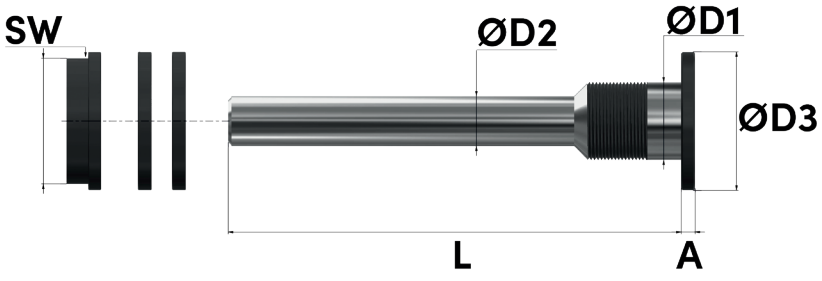
Ref.	D1 h6	D2 h5	D3	L	A	SW
1707R-5-4	5.00	4	10	50	3	8
1707R-6-5	6.00	5	12	60	3	10
1707R-8-6	8.00	6	15	70	3	13
1707R-8-7	8.00	7	15	80	3	13
1707R-10-6	10.00	6	18	70	3.5	15
1707R-10-8	10.00	8	18	90	3.5	15
1707R-13-10	13.00	10	22	110	3.5	19
1707R-16-12	16.00	12	26	120	3.5	22

Tasseaux pour rotation à gauche et serrage arrière avec filet à droite

Arbors for left hand rotation and rear clamping with right hand thread

Fräsdorne für Drehrichtung links und Spannung von hinten mit Rechtsgewinde

1708



Ref.	D1 h6	D2 h5	D3	L	A	SW
1708-5-4-L	5.00	4	10	50	3	8
1708L-6-5	6.00	5	12	60	3	10
1708L-8-6	8.00	6	15	70	3	13
1708L-10-6	10.00	6	18	70	3.5	15

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FRAISES À PLAQUETTES

FRAISES À PLAQUETTES ENTRE-CORNES P.120

ÉCROUS / PINCES DE SERRAGES

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TOURNAGE

TARAUDAGE/TOURBILLONNEURS - TAPPING/WHIRLING - GEWINDEBOHREN/WIRBELN

CONDITIONS DE COUPE - CUTTING CONDITIONS - SCHNITTDATEN

TOURBILLONNEURS

Matière	Acier non allié / faiblement allié < 600 N/mm2 Fonte grise		Aciers et fontes fortement alliés 700 – 1500 N/mm2 Acier inoxydable < 1500 N/mm2		Alliages de cuivre / Or / Argent		Aluminium /alliages d'aluminium et Plastique		Alliages spéciaux, Inconel, Nimonic, Hastelloy acier inoxydable réfractaire		Titane	
Werkstoff	Unlegierte/niedrig legierte Stähle < 600 N/mm2 Gusseisen		Hochlegierte Stähle 700 – 1500 N/mm2 / Rostfreie Stähle < 1500 N/mm2		Kupfer-Kupferlegierung / Gold / Silber		Aluminium / Aluminiumlegierung / Kunststoff		Sonderlegierungen Inconel, Nimonic, Hastelloy warmfeste rostfreie Stähle		Titan, Titanlegierung	
Material	Unalloyed steel / low alloyed steel < 600 N/mm2 Grey cast iron		High alloyed steel 700 – 1500 N/mm2 Heat resisting stainless steel < 1500 N/mm2		Copper alloy Gold / Silver		Aluminium / Aluminium alloy / Plastic		Special alloys Inconel, Nimonic, Hastelloy heat resisting stainless steel		Titanium	
Ø D1 (mm)	Vc (m/min)	fz (mm)	Vc (m/min)	fz (mm)	Vc (m/min)	fz (mm)	Vc (m/min)	fz (mm)	Vc (m/min)	fz (mm)	Vc (m/min)	fz (mm)
0.20 - 0.60	50 - 95	0.001 - 0.007	35 - 70	0.001 - 0.006	90 - 150	0.002 - 0.008	120 - 220	0.002 - 0.008	15 - 30	0.001 - 0.004	30 - 45	0.002 - 0.006
0.60 - 1.20		0.004 - 0.018		0.003 - 0.012		0.004 - 0.018		0.003 - 0.01		0.002 - 0.006		0.004 - 0.008
1.20 - 2.00		0.010 - 0.026		0.006- 0.070		0.015 - 0.026		0.005 - 0.02		0.003 - 0.01		0.010 - 0.026
2.00 - 3.00		0.017 - 0.04		0.01 - 0.025		0.025 - 0.04		0.01 - 0.03		0.005 - 0.01		0.017 - 0.04
3.00 - 5.00		0.03 - 0.06		0.02 - 0.04		0.04 -0.06		0.015 - 0.05		0.01 - 0.03		0.03 - 0.06
5.00 - 8.00		0.04 - 0.10		0.035 - 0.07		0.06 - 0.10		0.025 - 0.07		0.015 - 0.04		0.04 - 0.10

TARAUDAGE

Matière	Acier non allié / faiblement allié < 600 N/mm2	Acier faiblement allié/ Acier fortement allié 700 – 1500 N/mm2	Aciers et fontes fortement alliés / Acier inoxydable < 1500 N/mm2	Alliages de cuivre / Or / Argent /	Aluminium / alliages d'aluminium et plastique
Werkstoff	Unlegierte/niedrig legierte Stähle < 600 N/mm2	Unlegierte/niedrig legierte Stähle 700 – 1500 N/mm2	Hochlegierte Stähle oder Guss / Rostfreie Stähle < 1500 N/mm2	Kupfer-Kupferlegierung / Gold / Silber	Aluminium / Aluminiumlegierung / Kunststoff
Material	Unalloyed steel / low alloyed steel < 600 N/mm2	Unalloyed & alloyed steel / low alloyed steel 700 – 1500 N/mm2	High alloyed steel Heat resisting stainless steel < 1500 N/mm2	Copper alloyGold / Silver	Aluminium / Aluminium alloy / Plastic
Vc (m/min)	13	5	5	15	12

N = Vitesse de rotation en tr/min
Vc = Vitesse de coupe en m/min
p = 3,14
Ø = Diam. de la fraise en mm

N = Rotational speed in tr/min
Vc = Cutting speed in m/min
p = 3,14
Ø = Diameter of the milling cutter in mm

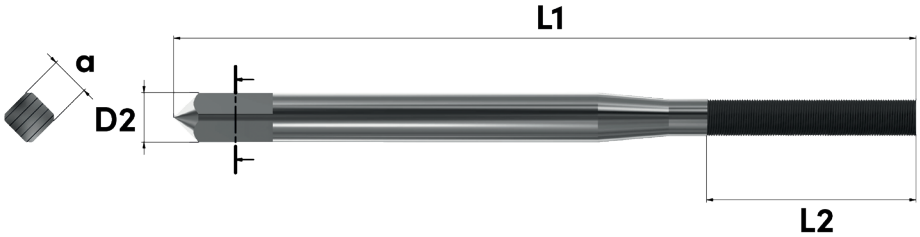
N = Dre in tr/min
Vc = Cutting speed in m/min
p = 3,14
Ø = Diameter of the milling cutter in mm

1612

Tarauds à repousser en HSS (traitement vapeur)

Forming taps in HSS (vapor treatment)

Gewindeformer aus HSS (mit Dampfbehandlung)



HSS 8%Co

NIHS 06

Z1

Plastique | Alu | Alliage Ni/Co | TI | Acier Inox

Ref.	Norme	Pas	D2 h5	L1	L2	a	Avant-trou
1612/M 0.50	M 0.50	0.125	1.50	20.00	1.80	1.50	0.41-0.43
1612/M 0.60	M 0.60	0.150	1.50	20.00	2.00	1.50	0.52-0.54
1612/M 0.70	M 0.70	0.175	1.50	20.00	2.20	1.50	0.61-0.63
1612/M 0.80	M 0.80	0.200	1.50	20.00	2.60	1.50	0.70-0.72
1612/M 0.90	M 0.90	0.225	3.00	20.00	3.00	1.50	0.78-0.80
1612/M 1.00	M 1.00	0.250	3.00	30.00	6.00	2.50	0.89-0.91
1612/M 1.20	M 1.20	0.250	3.00	32.00	6.00	2.50	1.09-1.11
1612/M 1.40	M 1.40	0.300	3.00	34.00	6.50	2.50	1.27-1.29
1612/M 1.60	M 1.60	0.350	3.00	36.00	7.00	2.50	1.45-1.47
1612/M 1.70	M 1.70	0.350	3.00	36.00	8.00	2.50	1.55-1.57
1612/M 1.80	M 1.80	0.350	3.00	36.00	8.00	2.50	1.65-1.67
1612/M 2.00	M 2.00	0.400	3.00	40.00	9.00	2.50	1.82-1.84

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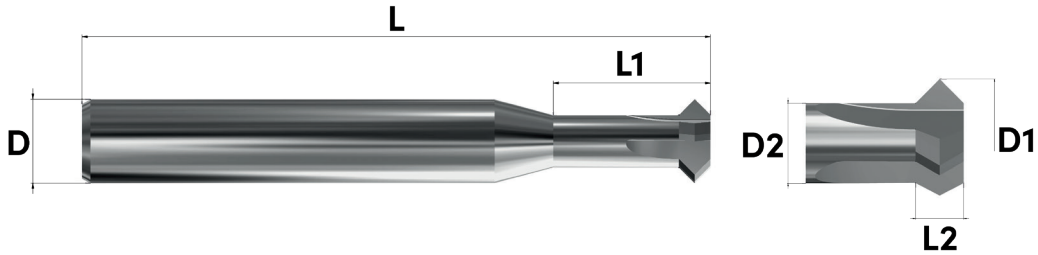
Outils à tourbillonner norme NIHS Z3

Whirling tools NIHS norm Z3

Gewinderwirbler Norm NIHS Z3

13907



Micro grain | ISO 60° | NIHS 06 | Z3 | TI | Alliage Ni/Co | Acier Inox

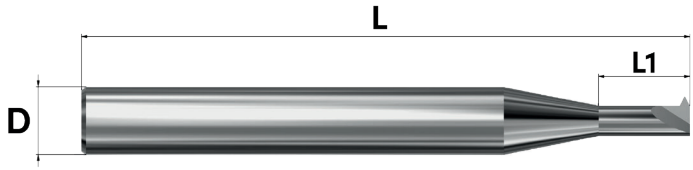
Ref.	D Nominal	S	Pas	ISO	NIHS	D1	L1	D2	Dh5	L	Z
									Ø perçage		
13907-0070		S0.70	0.175		0.56	0.54	1.80	0.33	3.00	38	3
13907-0080		S0.80	0.200		0.64	0.62	2.30	0.38	3.00	38	3
13907-0090		S0.90	0.225		0.72	0.70	2.50	0.43	3.00	38	3
13907-0100	M1.00	S1.00	0.250	0.75	0.85	0.78	2.80	0.44	3.00	38	3
13907-0120	M1.20	S1.20	0.250	0.95	1.00	0.98	3.40	0.64	3.00	38	3
13907-0140	M1.40	S1.40	0.300	1.10	1.15	1.12	4.00	0.71	3.00	38	3
13907-0140	M1.40		0.200	1.22		1.18	4.00	0.74	3.00	38	3
13907-0160	M1.60		0.350	1.30		1.26	4.50	0.72	3.00	38	3
13907-0180	M1.80		0.350	1.50		1.45	4.50	0.72	3.00	38	3
13907-0180	M1.80		0.200	1.60		1.45	5.10	0.77	3.00	38	3
13907-0200	M2.00		0.400	1.65		1.60	5.60	0.77	3.00	38	3
13907-0200	M2.00		0.200	1.80		1.60	5.60	0.85	3.00	38	3
13907-0220	M2.20		0.450	1.80		1.60	5.60	0.85	3.00	38	3
13907-0220	M2.20		0.250	1.95		2.00	7.00	0.91	3.00	38	3
13907-0250	M2.50		0.450	2.10		2.00	7.00	0.91	3.00	38	3
13907-0250	M2.50		0.350	2.15		2.00	7.00	0.91	3.00	38	3
13907-0250	M2.50		0.250	2.25		2.00	7.00	1.20	3.00	38	3
13907-0250	M2.50		0.200	2.30		2.00	7.00	1.20	3.00	38	3
13907-0300	M3.00		0.500	2.50		2.00	7.00	1.20	3.00	38	3
13907-0300	M3.00		0.350	2.65		2.00	7.00	1.20	3.00	38	3
13907-0300	M3.00		0.250	2.75		2.40	8.40	1.60	3.00	38	3
13907-0300	M3.00		0.200	2.80		2.40	8.40	1.60	3.00	38	3

13908

Outils à tourbillonner norme NIHS Z1

Whirling tools NIHS norm Z1

Gewinderwirbler Norm NIHS Z1



Micro grain

NIHS 06

Z1

Plastique | Alu | Alliage Cu/Or Argent | Alliage Ni/Co | TI | Acier Inox

Ref.	D Nominal	Pas	Ø perçage	D1	L1	D2	Dh5	L	Z
13908-0030	S0.30	0.080	0.23	0.22	0.70	0.13	3.00	38	1
13908-0035	S0.35	0.090	0.27	0.25	0.90	0.15	3.00	38	1
13908-0040	S0.40	0.100	0.32	0.30	0.90	0.19	3.00	38	1
13908-0050	S0.50	0.125	0.40	0.38	1.20	0.24	3.00	38	1
13908-0060	S0.60	0.150	0.48	0.46	1.50	0.29	3.00	38	1
13908-0070	S0.70	0.175	0.56	0.54	1.80	0.34	3.00	38	1
13908-0080	S0.80	0.200	0.64	0.60	2.00	0.37	3.00	38	1
13908-0090	S0.90	0.225	0.72	0.68	2.20	0.42	3.00	38	1
13908-0100	S1.00	0.250	0.80	0.76	2.40	0.48	3.00	38	1
13908-0120	S1.20	0.250	1.00	0.94	3.00	0.66	3.00	38	1
13908-0140	S1.40	0.300	1.15	1.10	3.30	0.76	3.00	38	1

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FRAISES À PLAQUETTES ENTRE-CORNES P.120

ÉCROUS / PINCES DE SERRAGES

ÉCROUS P.122 **PINCES DE SERRAGES** P.123

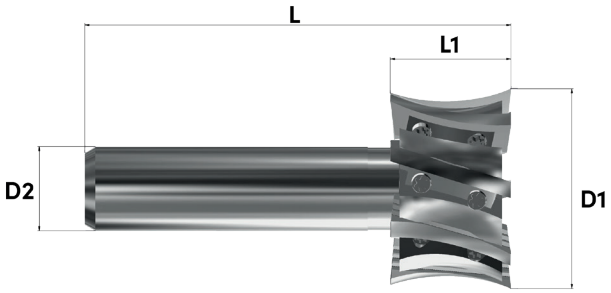
TOURNAGE

1800

Fraises à plaquettes pour entre-cornes

Tools for horns case

Wendeplattenfräser für Ansatzbreite



Micro grain

R

Z8

Or, Ag | Pt | Tl | Inox <1500 N/mm2 | Acier <1200 N/mm2

Ref.	D1	D2	L	L1
1800-3800-1750	38	16	80	19.00-21.00
1800-3800-1950	38	16	80	21.00-23.00

Plaquette sur demande / Wendeplattenfräser auf Aufrage / Tools on request

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PERÇAGE

CENTREURS P.3 **FORETS** P.4

FRAISAGE

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FRAISES À PLAQUETTES

FRAISES À PLAQUETTES ENTRE-CORNES P.120

ÉCROUS / PINCES DE SERRAGES

ÉCROUS P.122 **PINCES DE SERRAGES** P.123

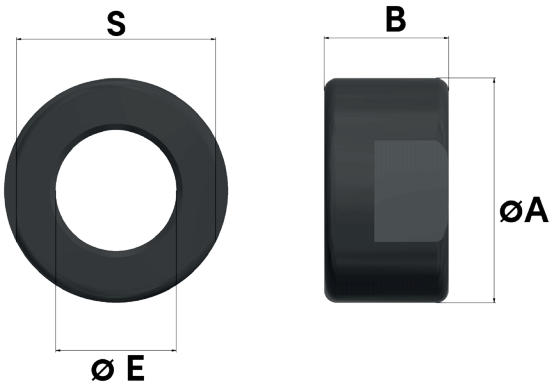
TOURNAGE

ECROU

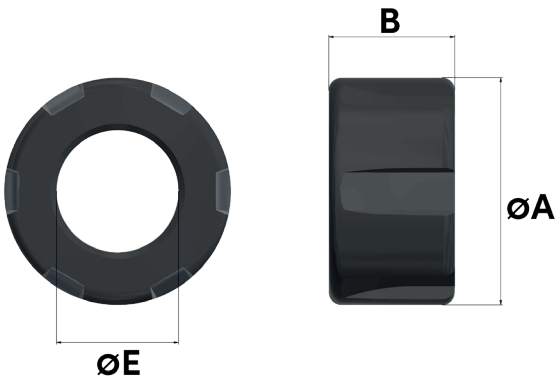
Ecrous de serrage haute précision «GENIALE»

High precision nuts «GENIALE»

Hochpräzision Spannmuttern «GENIALE»



Type S



Type E

Ref.	Type	A	B	C	E	S	Pince
E-08-M10	S	12.5	8.0	M10x0.75	6.0	11.0	PN-08
E-09-M10	S	13.5	8.0	M10x0.75	6.9	12.0	P-09/PN-09
E-12-M13	S	18.0	12.0	M13x0.75	9.2	16.0	P-12/PN-12
E12-M14	S	19.0	12.0	M14x0.75	9.2	17.0	P-12/PN-12
E-16-M19	S	24.7	15.0	M19x1.00	12.3	22.0	P-16/PN-16
E-16-M20	S	26.7	15.0	M20x1.00	12.3	24.0	P-16/PN-16
E-16-M22-ERGOT	E	32.0	15.0	M22x1.50	12.3		P-16/PN-16
E-16-M22-SW25	S	26.5	15.0	M22x1.50	12.3	25.0	P-16/PN-16
E-20	S	32.0	16.5	M25x1.50	16.0	28.0	P-20
E-20-M24	S	32.0	16.5	M24x1.00	16.0	28.0	P-20
E-20-M25-ERGOT	E	35.0	16.5	M25x1.50	16.0		P-20
E-25-M30-ERGOT	E	42.0	18.5	M30x1.00	19.4		P-25
E-25-M32-ERGOT	E	42.0	18.5	M32x1.50	19.4		P-25
E-32-M40-ERGOT	E	50.0	22.0	M40x1.50	25.6		P-32

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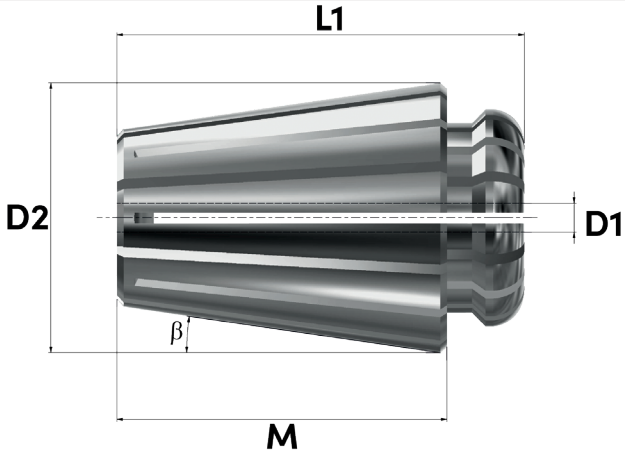
Pinces de serrage haute précision « GENIALE » type TGSX/P

High precision collets « GENIALE » type TGSX/P

Hochpräzision Spannzangen « GENIALE » TGSX/P Typ

TGSX/P



Ref.	D1	D2	Plage de serrage	L1	M	ß
P-09-01.00	1.00	9.00	0.25	13.00	11.4	8°
P-09-01.50	1.50	9.00	0.25	13.00	11.4	8°
P-09-02.00	2.00	9.00	0.25	13.00	11.4	8°
P-09-02.50	2.50	9.00	0.25	13.00	11.4	8°
P-09-03.00	3.00	9.00	0.50	13.00	11.4	8°
P-12-01.25	1.25	11.00	0.25	17.00	14.2	8°
P-12-01.50	1.50	11.00	0.25	17.00	14.2	8°
P-12-02.00	2.00	11.00	0.25	17.00	14.2	8°
P-12-03.00	3.00	11.00	0.50	17.00	14.2	8°
P-12-04.50	4.50	11.00	0.50	17.00	14.2	8°
P-12-05.00	5.00	11.00	1.00	17.00	14.2	8°
P-12-06.00	6.00	11.00	1.00	17.00	14.2	8°
P-12-07.00	7.00	11.00	1.00	17.00	14.2	8°
P-16-01.25	1.25	16.00	0.25	24.00	21.0	8°
P-16-01.50	1.50	16.00	0.25	24.00	21.0	8°
P-16-01.75	1.75	16.00	0.25	24.00	21.0	8°
P-16-02.00	2.00	16.00	0.25	24.00	21.0	8°
P-16-02.25	2.25	16.00	0.25	24.00	21.0	8°
P-16-02.50	2.50	16.00	0.25	24.00	21.0	8°
P-16-03.00	3.00	16.00	0.50	24.00	21.0	8°
P-16-03.50	3.50	16.00	0.50	24.00	21.0	8°
P-16-04.00	4.00	16.00	0.50	24.00	21.0	8°
P-16-05.00	5.00	16.00	1.00	24.00	21.0	8°
P-16-06.00	6.00	16.00	1.00	24.00	21.0	8°
P-16-07.00	7.00	16.00	1.00	24.00	21.0	8°
P-16-08.00	8.00	16.00	1.00	24.00	21.0	8°
P-16-09.00	9.00	16.00	1.00	24.00	21.0	8°
P-16-10.00	10.00	16.00	1.00	24.00	21.0	8°

TGSX/P

Pinces de serrage haute précision « GENIALE » type TGSX/P

High precision collets « GENIALE » type TGSX/P

Hochpräzision Spannzangen « GENIALE » TGSX/P Typ

Ref.	D1	D2	Plage de serrage	L1	M	ß
P-20-01.00	1.00	20.00	0.25	30.00	26.7	8°
P-20-01.50	1.50	20.00	0.25	30.00	26.7	8°
P-20-02.00	2.00	20.00	0.25	30.00	26.7	8°
P-20-03.00	3.00	20.00	0.50	30.00	26.7	8°
P-20-04.00	4.00	20.00	0.50	30.00	26.7	8°
P-20-05.00	5.00	20.00	1.00	30.00	26.7	8°
P-20-06.00	6.00	20.00	1.00	30.00	26.7	8°
P-20-07.00	7.00	20.00	1.00	30.00	26.7	8°
P-20-08.00	8.00	20.00	1.00	30.00	26.7	8°
P-20-09.00	9.00	20.00	1.00	30.00	26.7	8°
P-20-10.00	10.00	20.00	1.00	30.00	26.7	8°
P-20-12.00	12.00	20.00	1.00	30.00	26.7	8°
P-20-13.00	13.00	20.00	1.00	30.00	26.7	8°
P-25-01.00	1.00	25.00	0.25	34.00	29.4	8°
P-25-02.00	2.00	25.00	0.25	34.00	29.4	8°
P-25-03.00	3.00	25.00	0.50	34.00	29.4	8°
P-25-04.00	4.00	25.00	0.50	34.00	29.4	8°
P-25-05.00	5.00	25.00	1.00	34.00	29.4	8°
P-25-06.00	6.00	25.00	1.00	34.00	29.4	8°
P-25-07.00	7.00	25.00	1.00	34.00	29.4	8°
P-25-08.00	8.00	25.00	1.00	34.00	29.4	8°
P-25-09.00	9.00	25.00	1.00	34.00	29.4	8°
P-25-10.00	10.00	25.00	1.00	34.00	29.4	8°
P-25-12.00	12.00	25.00	1.00	34.00	29.4	8°
P-25-13.00	13.00	25.00	1.00	34.00	29.4	8°
P-25-14.00	14.00	25.00	1.00	34.00	29.4	8°
P-25-15.00	15.00	25.00	1.00	34.00	29.4	8°
P-25-16.00	16.00	25.00	1.00	34.00	29.4	8°
P-32-04.00	4.00	32.00	0.50	40.00	34.7	8°
P-32-05.00	5.00	32.00	1.00	40.00	34.7	8°

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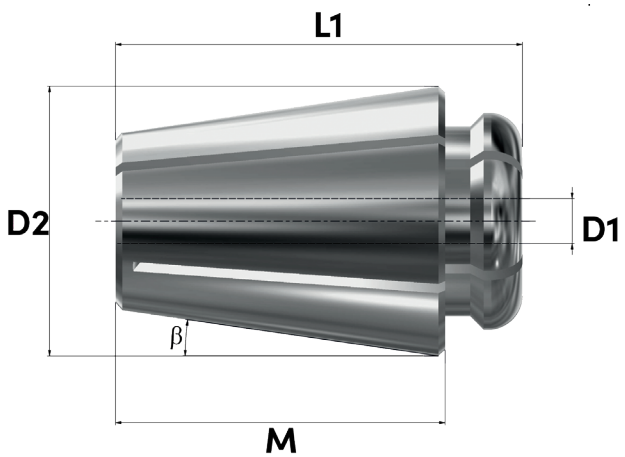
Pinces de serrage haute précision « GENIALE » type TGSX/PN

High precision collets « GENIALE » type TGSX/PN

Hochpräzision Spannzangen « GENIALE » TGSX/PN Typ

TGSX/PN



Ref.	D1	D2	Plage de serrage	L1	M	ß
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PN-08-01.40	1.40	8.00	0.50	13.00	11.00	5°
PN-08-01.50	1.50	8.00	0.50	13.00	11.00	5°
PN-08-02.00	2.00	8.00	0.50	13.00	11.00	5°
PN-08-02.50	2.50	8.00	0.50	13.00	11.00	5°
PN-08-03.00	3.00	8.00	0.50	13.00	11.00	5°
PN-16-01.00	1.00	16.00	1.00	24.00	21.00	8°
PN-16-01.10	1.10	16.00	1.00	24.00	21.00	8°
PN-16-03.00	3.00	16.00	1.00	24.00	21.00	8°
PN-16-04.00	4.00	16.00	1.00	24.00	21.00	8°
PN-16-06.00	6.00	16.00	1.00	24.00	21.00	8°
PN-16-10.00	10.00	16.00	1.00	24.00	21.00	8°

PERÇAGE

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FRAISES Z3 P.66 / **FRAISES Z4** P.77 / **FRAISES Z6-8** P.80
FRAISES HÉMISPHÉRIQUES P.81 / **FRAISES À ANGLER** P.86 / **FRAISES À GRAVER** P.89

TRONÇONNAGE

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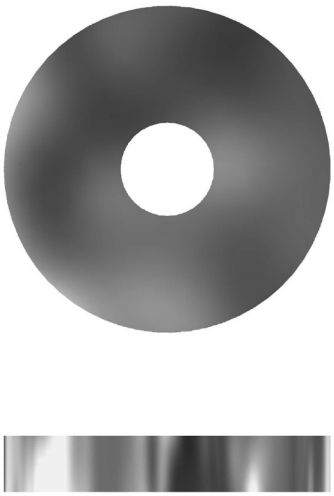
FRAISES À PLAQUETTES ENTRE-CORNES P.120

ÉCROUS / PINCES DE SERRAGES

ÉCROUS P.122 **PINCES DE SERRAGES** P.123

TOURNAGE

Ebauche



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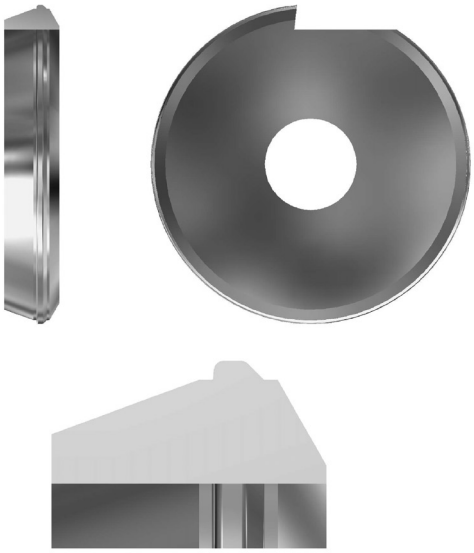
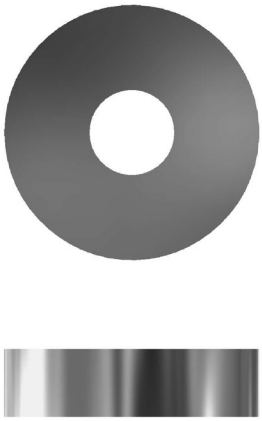
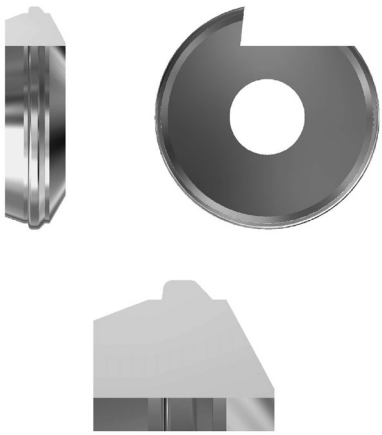


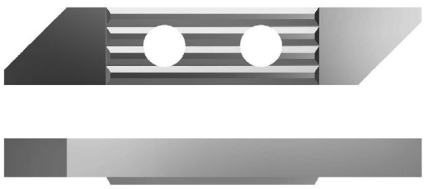


Différents diamètres disponibles



Profil sur mesure

Ebauche



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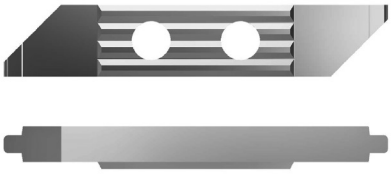

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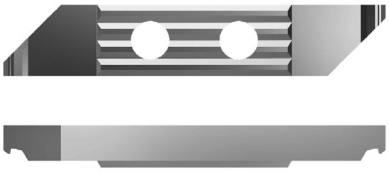
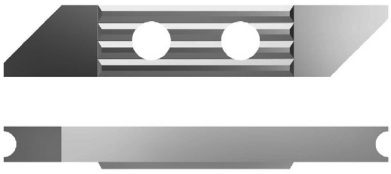
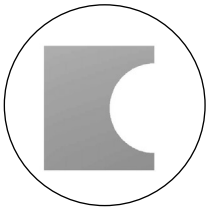


Tolérances selon demande



Coupe polie-glace



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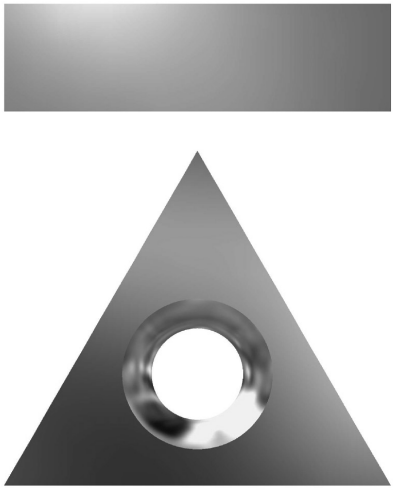
Ebauche



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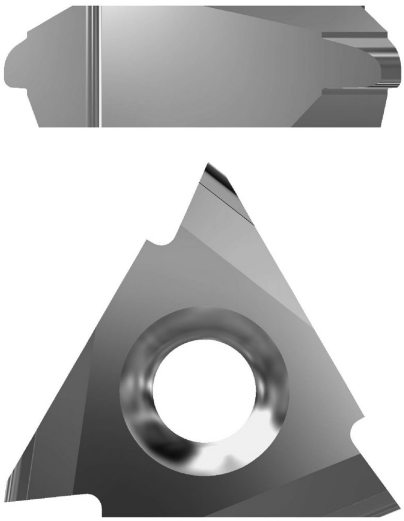
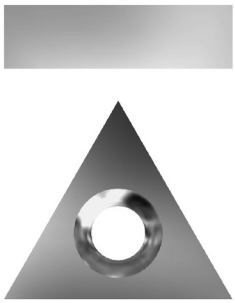
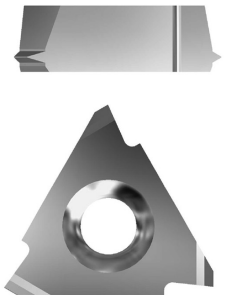
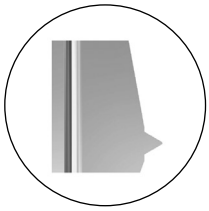






Profilage de haute précision



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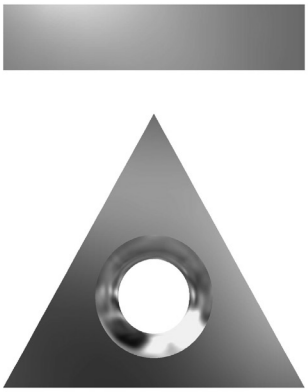

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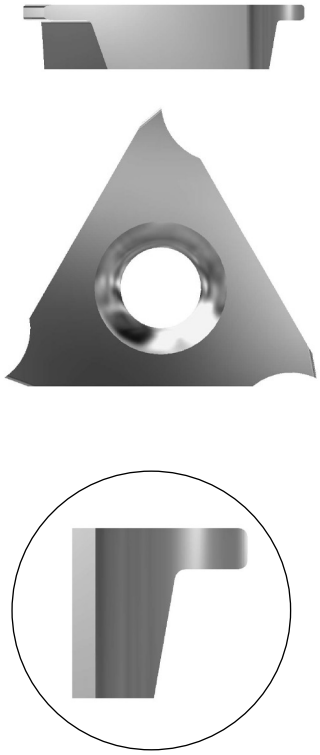

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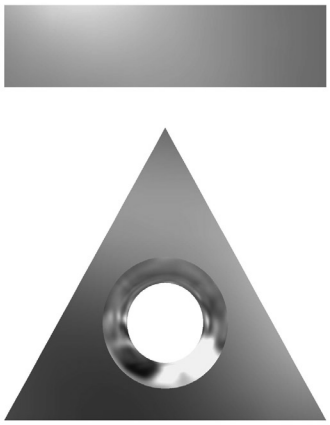
Ebauche



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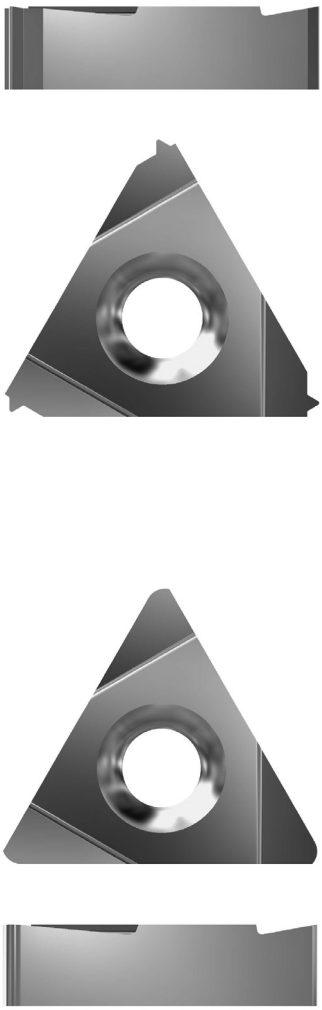
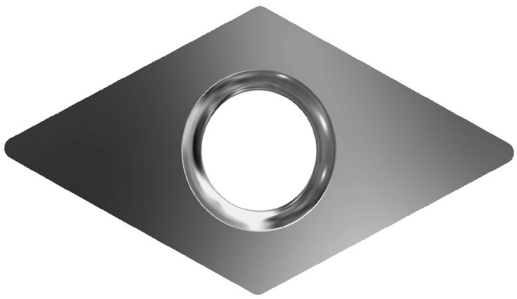


Différentes dimensions disponibles
Avec ou sans brise-copeaux

Ebauche



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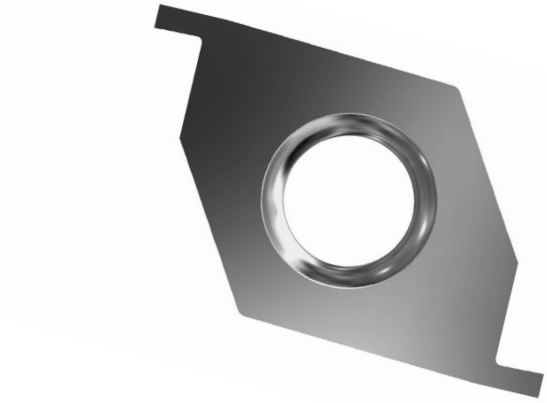

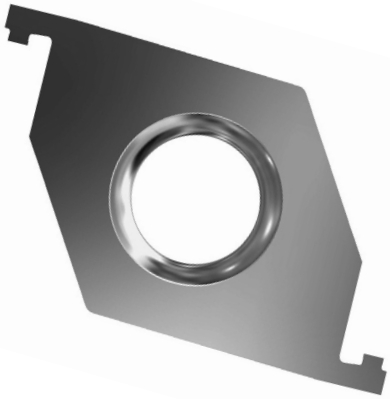

Plaquette spéciale pour l'usinage de boîte de montre

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