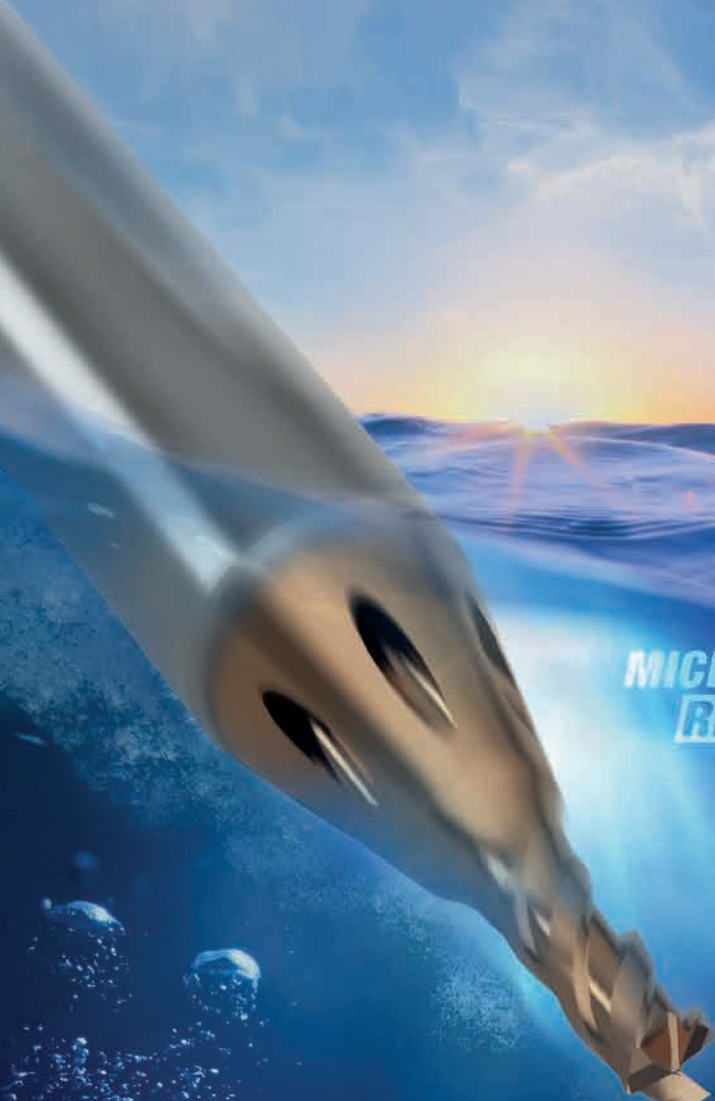


# GÜHRING



MICRO  
RF 100 **d**iver

「MICRO  
EVO2020  
LUTION」

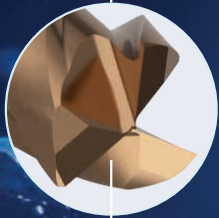
60° plunging and top-performance milling.

**THE SMALLEST DIVER IN THE WORLD.**

# MICRO **d**iver RF100



**SYMMETRICAL DRILLING FACE**  
optimised for drilling and ramping  
operations excellent cutting edge stability



**innovative flute form**  
very high tool stability  
low-vibration cutting

**new transition geometry**  
improves overall stability

**GühroJet coolant ducts**  
guided cooling & lubrication  
directly in the cutting area  
effective chip removal

**THE HIPIMS COATING DUROX®**  
achieves a very high surface quality  
for an optimal chip removal  
as well as perfect protection against wear  
and oxidation in dry and wet machining.

**DIMENSIONS**  
Ø 0.790 – 3.175

**LENGTHS**  
2.5xD and 5xD

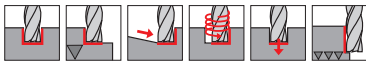
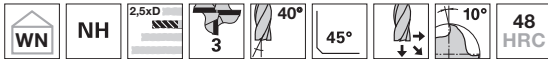
**new ultra fine carbide**  
optimum balance between  
hardness and toughness  
for micromachining applications

**MICRO  
EVO2020  
LUTION**

Plunging and milling with only one tool.  
Universal, in every application, in every material.  
Extreme cutting values and very high cutting depths,  
which were previously not possible for micro-precision tools.



Ratio end mills RF 100 Microdiver



P	•
M	•
K	•
N	•
S	•
H	○

**GÜHRING NAVIGATOR**

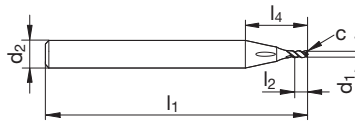
- for extreme cutting values and cutting performance
- with internal cooling: GühroJet peripheral cooling with 6 or 4 exits
- centre cutting
- with special drill face

Tool material **Solid carbide**

Surface **X**

Type **NH**

Shank form **cyl.**



Article no. **6808**

d1 h8	d2 h5	l1	l2	l4	c	Z	Code no.
mm	mm	mm	mm	mm	mm x 45°		
0.790	4.00	38.10	1.97	9.5	0.016	3	0.790
0.800	4.00	38.00	2.00	9.5	0.016	3	0.800
1.000	4.00	38.00	2.50	9.3	0.020	3	1.000
1.190	4.00	38.10	2.97	9.4	0.024	3	1.190
1.200	4.00	38.00	3.00	9.4	0.024	3	1.200
1.500	4.00	45.00	3.75	9.7	0.030	3	1.500
1.590	4.00	44.45	3.97	9.9	0.032	3	1.590
1.800	4.00	45.00	4.50	10.2	0.036	3	1.800
1.980	6.00	50.80	4.95	14.7	0.040	3	1.980
2.000	6.00	50.00	5.00	14.6	0.040	3	2.000
2.200	6.00	50.00	5.50	14.9	0.044	3	2.200
2.380	6.00	50.80	5.95	15.2	0.048	3	2.380
2.500	6.00	50.00	6.25	15.3	0.050	3	2.500
2.780	6.00	50.80	6.95	15.8	0.056	3	2.780
2.800	6.00	50.00	7.00	15.9	0.056	3	2.800
3.000	6.00	50.00	7.50	16.2	0.060	3	3.000
3.175	6.00	50.80	7.93	17.0	0.064	3	3.175





## FINISHING

Art. no. 6808

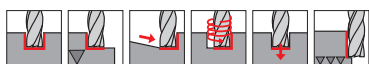
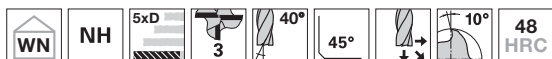
Material/ISO material	$a_e$ max	$a_p$ max	$v_c$	$f_z/\varnothing$			$v_c$	$f_z/\varnothing$		$v_c$	$f_z/\varnothing$			$v_c$	$f_z/\varnothing$	
				0.8	1.0	1.2		1.5	1.8		2.0	2.2	2.5		2.8	3.0
Unalloyed steel	0.03xD	2.00xD	180	0.0086	0.0108	0.0130	216	0.0162	0.0194	234	0.0216	0.0238	0.0270	252	0.0302	0.0324
<b>P</b> Low-alloyed steel	0.03xD	2.00xD	180	0.0077	0.0096	0.0115	216	0.0144	0.0173	234	0.0192	0.0211	0.0240	252	0.0269	0.0288
High-alloyed steel and tool steel	0.03xD	2.00xD	180	0.0058	0.0072	0.0086	216	0.0108	0.0130	234	0.0144	0.0158	0.0180	252	0.0202	0.0216
Stainless steel, ferritic, martensitic	0.03xD	2.00xD	180	0.0077	0.0096	0.0115	216	0.0144	0.0173	234	0.0192	0.0211	0.0240	252	0.0269	0.0288
<b>M</b> Stainless steel, austenitic	0.03xD	2.00xD	155	0.0067	0.0084	0.0101	186	0.0126	0.0151	202	0.0168	0.0185	0.0210	217	0.0235	0.0252
Duplex steel, high strength stainless steels	0.03xD	2.00xD	115	0.0059	0.0073	0.0088	138	0.0110	0.0132	150	0.0147	0.0162	0.0184	161	0.0206	0.0220
Grey cast iron	0.03xD	2.00xD	155	0.0067	0.0084	0.0101	186	0.0126	0.0151	202	0.0168	0.0185	0.0210	217	0.0235	0.0252
<b>K</b> Cast iron with spheroidal graphite iron																
Malleable cast iron	0.03xD	2.00xD	130	0.0060	0.0075	0.0090	156	0.0112	0.0134	169	0.0149	0.0164	0.0187	182	0.0209	0.0224
GJV & ADI																
Aluminium-wrought alloys	0.03xD	2.00xD	220	0.0115	0.0144	0.0173	264	0.0216	0.0259	286	0.0288	0.0317	0.0360	308	0.0403	0.0432
<b>N</b> Aluminium-cast alloys																
Copper and copper alloys	0.03xD	2.00xD	160	0.0106	0.0133	0.0159	192	0.0199	0.0239	208	0.0265	0.0292	0.0331	224	0.0371	0.0398
Heat-resistant alloys, Fe-based	0.03xD	2.00xD	130	0.0043	0.0054	0.0065	156	0.0081	0.0097	169	0.0108	0.0119	0.0135	182	0.0151	0.0162
<b>S</b> Heat-resistant alloys, Ni-based, CO-based	0.03xD	2.00xD	75	0.0035	0.0044	0.0053	90	0.0066	0.0079	98	0.0088	0.0096	0.0110	105	0.0123	0.0132
Titanium alloys & pure titanium	0.03xD	2.00xD	120	0.0072	0.0090	0.0108	144	0.0135	0.0162	156	0.0180	0.0198	0.0225	168	0.0252	0.0270
<b>H</b> Hardened steel, hardened and tempered, < 55 HRC	0.02xD	2.00xD	45	0.0038	0.0048	0.0058	54	0.0072	0.0086	59	0.0096	0.0106	0.0120	63	0.0134	0.0144

## DRILLING

Art. no. 6808

Material/ISO material	$a_p$ max	$v_c$	$f_z/\varnothing$			$v_c$	$f_z/\varnothing$		$v_c$	$f_z/\varnothing$			$v_c$	$f_z/\varnothing$	
			0.8	1.0	1.2		1.5	1.8		2.0	2.2	2.5		2.8	3.0
Unalloyed steel	1.00xD	100	0.0014	0.0018	0.0022	120	0.0027	0.0032	130	0.0036	0.0040	0.0045	140	0.0050	0.0054
<b>P</b> Low-alloyed steel	1.00xD	100	0.0013	0.0016	0.0019	120	0.0024	0.0029	130	0.0032	0.0035	0.0040	140	0.0045	0.0048
High-alloyed steel and tool steel	0.50xD	90	0.0010	0.0012	0.0014	108	0.0018	0.0022	117	0.0024	0.0026	0.0030	126	0.0034	0.0036
Stainless steel, ferritic, martensitic	0.75xD	90	0.0012	0.0015	0.0018	108	0.0023	0.0027	117	0.0030	0.0033	0.0038	126	0.0042	0.0045
<b>M</b> Stainless steel, austenitic	0.50xD	85	0.0011	0.0014	0.0017	102	0.0021	0.0025	111	0.0028	0.0031	0.0035	119	0.0039	0.0042
Duplex steel, high strength stainless steels	0.25xD	65	0.0010	0.0012	0.0014	78	0.0018	0.0022	85	0.0024	0.0026	0.0030	91	0.0034	0.0036
Grey cast iron	1.00xD	90	0.0011	0.0014	0.0017	108	0.0021	0.0025	117	0.0028	0.0031	0.0035	126	0.0039	0.0042
<b>K</b> Cast iron with spheroidal graphite iron															
Malleable cast iron	1.00xD	75	0.0010	0.0012	0.0014	90	0.0018	0.0022	98	0.0024	0.0026	0.0030	105	0.0034	0.0036
GJV & ADI															
Aluminium-wrought alloys	0.50xD	125	0.0019	0.0024	0.0029	150	0.0036	0.0043	163	0.0048	0.0053	0.0060	175	0.0067	0.0072
<b>N</b> Aluminium-cast alloys															
Copper and copper alloys	0.50xD	90	0.0018	0.0022	0.0026	108	0.0033	0.0040	117	0.0044	0.0048	0.0055	126	0.0062	0.0066
Heat-resistant alloys, Fe-based	0.25xD	75	0.0007	0.0009	0.0011	90	0.0014	0.0016	98	0.0018	0.0020	0.0023	105	0.0025	0.0027
<b>S</b> Heat-resistant alloys, Ni-based, CO-based	0.25xD	45	0.0006	0.0008	0.0009	54	0.0011	0.0014	59	0.0015	0.0017	0.0019	63	0.0021	0.0023
Titanium alloys & pure titanium	0.25xD	70	0.0012	0.0015	0.0018	84	0.0023	0.0027	91	0.0030	0.0033	0.0038	98	0.0042	0.0045

Ratio end mills RF 100 Microdiver



**P** • **GÜHRING NAVIGATOR**

- M** •
- K** •
- N** •
- S** •
- H** ○

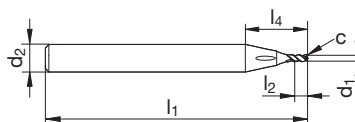
- for extreme cutting values and cutting performance
- with internal cooling: GühroJet peripheral cooling with 6 or 4 exits
- centre cutting
- with special drill face

Tool material **Solid carbide**

Surface **X**

Type **NH**

Shank form **cyl.**



Article no. **6809**

d1 h8	d2 h5	l1	l2	l4	c	Z	Code no.
mm	mm	mm	mm	mm	mm x 45°		
1.000	4.00	45.00	5.00	11.8	0.020	3	1.000
1.190	4.00	50.80	5.95	12.4	0.024	3	1.190
1.500	4.00	50.00	7.50	13.5	0.030	3	1.500
1.590	4.00	50.80	7.95	13.9	0.032	3	1.590
1.980	6.00	57.15	9.90	19.6	0.040	3	1.980
2.000	6.00	57.00	10.00	19.6	0.040	3	2.000
2.380	6.00	57.15	11.90	21.1	0.048	3	2.380
2.500	6.00	57.00	12.50	21.5	0.050	3	2.500
2.780	6.00	57.15	13.90	22.8	0.056	3	2.780
3.000	6.00	57.00	15.00	23.7	0.060	3	3.000
3.175	6.00	57.15	15.87	25.0	0.064	3	3.175



## OPEN SLOTS AND HELIX

Art. no. 6809

Material/ISO material	a <sub>e</sub> max	a <sub>p</sub> max	v <sub>c</sub>	f <sub>z</sub> /Ø		v <sub>c</sub>	f <sub>z</sub> /Ø	v <sub>c</sub>	f <sub>z</sub> /Ø		v <sub>c</sub>	f <sub>z</sub> /Ø	
				1.0	1.2		1.5		2.0	2.5		2.8	3.0
Unalloyed steel	1.00xD	0.50xD	112	0.0081	0.0097	134	0.0122	146	0.0162	0.0203	157	0.0227	0.0243
P Low-alloyed steel High-alloyed steel and tool steel	1.00xD	0.50xD	112	0.0072	0.0086	134	0.0108	146	0.0144	0.0180	157	0.0202	0.0216
	1.00xD	0.25xD	112	0.0054	0.0065	134	0.0081	146	0.0108	0.0135	157	0.0151	0.0162
M Stainless steel, ferritic, martensitic Stainless steel, austenitic Duplex steel, high strength stainless steels	1.00xD	0.25xD	112	0.0072	0.0086	134	0.0108	146	0.0144	0.0180	157	0.0202	0.0216
	1.00xD	0.25xD	96	0.0063	0.0076	115	0.0095	125	0.0126	0.0158	134	0.0176	0.0189
	1.00xD	0.25xD	71	0.0055	0.0066	85	0.0083	92	0.0110	0.0138	99	0.0154	0.0165
K Grey cast iron Cast iron with spheroidal graphite iron Malleable cast iron GJV & ADI	1.00xD	0.50xD	96	0.0063	0.0076	115	0.0095	125	0.0126	0.0158	134	0.0176	0.0189
	1.00xD	0.50xD	80	0.0056	0.0067	96	0.0084	104	0.0112	0.0140	112	0.0157	0.0168
N Aluminium-wrought alloys Aluminium-cast alloys Copper and copper alloys	1.00xD	0.50xD	136	0.0108	0.0130	163	0.0162	177	0.0216	0.0270	190	0.0302	0.0324
	1.00xD	0.50xD	100	0.0099	0.0119	120	0.0149	130	0.0199	0.0249	140	0.0278	0.0298
S Heat-resistant alloys, Fe-based Heat-resistant alloys, Ni-based, CO-based Titanium alloys & pure titanium	1.00xD	0.25xD	80	0.0041	0.0049	96	0.0061	104	0.0081	0.0101	112	0.0113	0.0122
	1.00xD	0.25xD	46	0.0033	0.0039	55	0.0049	60	0.0066	0.0082	64	0.0092	0.0099
	1.00xD	0.25xD	72	0.0068	0.0081	86	0.0101	94	0.0135	0.0169	101	0.0189	0.0203
H Hardened steel, hardened and tempered, < 55 HRC	1.00xD	0.10xD	26	0.0036	0.0043	31	0.0054	34	0.0072	0.0090	36	0.0101	0.0108

## RAMPING AND CLOSED SLOTS

Art. no. 6809

Material/ISO material	a <sub>e</sub> max	a <sub>p</sub> max	v <sub>c</sub>	f <sub>z</sub> /Ø		v <sub>c</sub>	f <sub>z</sub> /Ø	v <sub>c</sub>	f <sub>z</sub> /Ø		v <sub>c</sub>	f <sub>z</sub> /Ø	
				1.0	1.2		1.5		2.0	2.5		2.8	3.0
Unalloyed steel	1.00xD	0.50xD	78	0.0049	0.0058	94	0.0073	102	0.0097	0.0122	110	0.0136	0.0146
P Low-alloyed steel High-alloyed steel and tool steel	1.00xD	0.50xD	78	0.0043	0.0052	94	0.0065	102	0.0086	0.0108	110	0.0121	0.0130
	1.00xD	0.25xD	78	0.0032	0.0039	94	0.0049	102	0.0065	0.0081	110	0.0091	0.0097
M Stainless steel, ferritic, martensitic Stainless steel, austenitic Duplex steel, high strength stainless steels	1.00xD	0.25xD	78	0.0043	0.0052	94	0.0065	102	0.0086	0.0108	110	0.0121	0.0130
	1.00xD	0.25xD	67	0.0038	0.0045	81	0.0057	87	0.0076	0.0095	94	0.0106	0.0113
	1.00xD	0.25xD	50	0.0033	0.0040	60	0.0050	65	0.0066	0.0083	70	0.0093	0.0099
K Grey cast iron Cast iron with spheroidal graphite iron Malleable cast iron GJV & ADI	1.00xD	0.50xD	67	0.0038	0.0045	81	0.0057	87	0.0076	0.0095	94	0.0106	0.0113
	1.00xD	0.50xD	56	0.0034	0.0040	67	0.0050	73	0.0067	0.0084	78	0.0094	0.0101
N Aluminium-wrought alloys Aluminium-cast alloys Copper and copper alloys	1.00xD	0.50xD	95	0.0065	0.0078	114	0.0097	124	0.0130	0.0162	133	0.0181	0.0194
	1.00xD	0.50xD	70	0.0060	0.0072	84	0.0089	91	0.0119	0.0149	98	0.0167	0.0179
S Heat-resistant alloys, Fe-based Heat-resistant alloys, Ni-based, CO-based Titanium alloys & pure titanium	1.00xD	0.25xD	56	0.0024	0.0029	67	0.0036	73	0.0049	0.0061	78	0.0068	0.0073
	1.00xD	0.25xD	32	0.0020	0.0024	39	0.0030	42	0.0039	0.0049	45	0.0055	0.0059
	1.00xD	0.25xD	50	0.0041	0.0049	60	0.0061	66	0.0081	0.0101	71	0.0113	0.0122
H Hardened steel, hardened and tempered, < 55 HRC	1.00xD	0.10xD	18	0.0022	0.0026	22	0.0032	24	0.0043	0.0054	25	0.0060	0.0065

## ROUGHING

Art. no. 6809

Material/ISO material	a <sub>e</sub> max	a <sub>p</sub> max	v <sub>c</sub>	f <sub>z</sub> /Ø		v <sub>c</sub>	f <sub>z</sub> /Ø	v <sub>c</sub>	f <sub>z</sub> /Ø		v <sub>c</sub>	f <sub>z</sub> /Ø	
				1.0	1.2		1.5		2.0	2.5		2.8	3.0
Unalloyed steel	0.10xD	5.00xD	134	0.0128	0.0153	161	0.0191	174	0.0255	0.0319	188	0.0357	0.0383
P Low-alloyed steel High-alloyed steel and tool steel	0.10xD	5.00xD	134	0.0113	0.0136	161	0.0170	174	0.0227	0.0284	188	0.0318	0.0340
	0.08xD	5.00xD	134	0.0085	0.0102	161	0.0128	174	0.0170	0.0213	188	0.0238	0.0255
M Stainless steel, ferritic, martensitic Stainless steel, austenitic Duplex steel, high strength stainless steels	0.10xD	5.00xD	134	0.0113	0.0136	161	0.0170	174	0.0227	0.0284	188	0.0318	0.0340
	0.08xD	5.00xD	115	0.0099	0.0119	138	0.0149	150	0.0198	0.0248	161	0.0278	0.0298
	0.05xD	5.00xD	86	0.0087	0.0104	103	0.0130	112	0.0174	0.0217	120	0.0243	0.0260
K Grey cast iron Cast iron with spheroidal graphite iron Malleable cast iron GJV & ADI	0.10xD	5.00xD	115	0.0099	0.0119	138	0.0149	150	0.0198	0.0248	161	0.0278	0.0298
	0.10xD	5.00xD	96	0.0088	0.0106	115	0.0132	125	0.0176	0.0220	134	0.0247	0.0265
N Aluminium-wrought alloys Aluminium-cast alloys Copper and copper alloys	0.15xD	5.00xD	163	0.0170	0.0204	196	0.0255	212	0.0340	0.0425	228	0.0476	0.0510
	0.12xD	5.00xD	120	0.0157	0.0188	144	0.0235	156	0.0313	0.0392	168	0.0438	0.0470
S Heat-resistant alloys, Fe-based Heat-resistant alloys, Ni-based, CO-based Titanium alloys & Reintitan	0.08xD	5.00xD	96	0.0064	0.0077	115	0.0096	125	0.0128	0.0159	134	0.0179	0.0191
	0.05xD	5.00xD	55	0.0052	0.0062	66	0.0078	72	0.0104	0.0130	77	0.0145	0.0155
	0.08xD	5.00xD	86	0.0106	0.0128	103	0.0159	112	0.0213	0.0266	120	0.0298	0.0319
H Hardened steel, hardened and tempered, < 55 HRC	0.03xD	5.00xD	31	0.0057	0.0068	37	0.0085	40	0.0113	0.0142	43	0.0159	0.0170

## FINISHING

Art. no. 6809

Material/ISO material	$a_{e \max}$	$a_{p \max}$	$v_c$	$f_z/\varnothing$		$v_c$	$f_z/\varnothing$	$v_c$	$f_z/\varnothing$		$v_c$	$f_z/\varnothing$	
				1.0	1.2				1.5	2.0		2.5	2.8
Unalloyed steel	0.02xD	5.00xD	146	0.0097	0.0117	175	0.0146	190	0.0194	0.0243	204	0.0272	0.0292
<b>P</b> Low-alloyed steel	0.02xD	5.00xD	146	0.0086	0.0104	175	0.0130	190	0.0173	0.0216	204	0.0242	0.0259
High-alloyed steel and tool steel	0.02xD	5.00xD	146	0.0065	0.0078	175	0.0097	190	0.0130	0.0162	204	0.0181	0.0194
Stainless steel, ferritic, martensitic	0.02xD	5.00xD	146	0.0086	0.0104	175	0.0130	190	0.0173	0.0216	204	0.0242	0.0259
<b>M</b> Stainless steel, austenitic	0.02xD	5.00xD	125	0.0076	0.0091	150	0.0113	163	0.0151	0.0189	175	0.0212	0.0227
Duplex steel, high strength stainless steels	0.02xD	5.00xD	93	0.0066	0.0079	112	0.0099	121	0.0132	0.0165	130	0.0185	0.0198
Grey cast iron	0.02xD	5.00xD	125	0.0076	0.0091	150	0.0113	163	0.0151	0.0189	175	0.0212	0.0227
<b>K</b> Cast iron with spheroidal graphite iron													
Malleable cast iron	0.02xD	5.00xD	104	0.0067	0.0081	125	0.0101	135	0.0134	0.0168	146	0.0188	0.0202
GJV & ADI													
Aluminium-wrought alloys	0.02xD	5.00xD	177	0.0130	0.0156	212	0.0194	230	0.0259	0.0324	248	0.0363	0.0389
<b>N</b> Aluminium-cast alloys													
Copper and copper alloys	0.02xD	5.00xD	130	0.0119	0.0143	156	0.0179	169	0.0239	0.0298	182	0.0334	0.0358
Heat-resistant alloys, Fe-based	0.02xD	5.00xD	104	0.0049	0.0058	125	0.0073	135	0.0097	0.0122	146	0.0136	0.0146
<b>S</b> Heat-resistant alloys, Ni-based, CO-based	0.02xD	5.00xD	60	0.0039	0.0047	72	0.0059	78	0.0079	0.0099	84	0.0111	0.0118
Titanium alloys & pure titanium	0.02xD	5.00xD	94	0.0081	0.0097	113	0.0122	122	0.0162	0.0203	132	0.0227	0.0243
<b>H</b> Hardened steel, hardened and tempered, < 55 HRC	0.01xD	5.00xD	34	0.0043	0.0052	41	0.0065	44	0.0086	0.0108	48	0.0121	0.0130

## DRILLING

Art. no. 6809

Material/ISO material	$a_{p \max}$	$v_c$	$f_z/\varnothing$		$v_c$	$f_z/\varnothing$	$v_c$	$f_z/\varnothing$		$v_c$	$f_z/\varnothing$	
			1.0	1.2				1.5	2.0		2.5	2.8
Unalloyed steel	0.50xD	84	0.0014	0.0017	101	0.0022	109	0.0029	0.0036	118	0.0040	0.0043
<b>P</b> Low-alloyed steel	0.50xD	84	0.0013	0.0015	101	0.0019	109	0.0026	0.0032	118	0.0036	0.0038
High-alloyed steel and tool steel	0.25xD	84	0.0010	0.0012	101	0.0014	109	0.0019	0.0024	118	0.0027	0.0029
Stainless steel, ferritic, martensitic	0.25xD	84	0.0013	0.0015	101	0.0019	109	0.0026	0.0032	118	0.0036	0.0038
<b>M</b> Stainless steel, austenitic	0.25xD	72	0.0011	0.0013	86	0.0017	94	0.0022	0.0028	101	0.0031	0.0034
Duplex steel, high strength stainless steels	0.25xD	54	0.0010	0.0012	65	0.0015	70	0.0020	0.0024	76	0.0027	0.0029
Grey cast iron	0.50xD	72	0.0011	0.0013	86	0.0017	94	0.0022	0.0028	101	0.0031	0.0034
<b>K</b> Cast iron with spheroidal graphite iron												
Malleable cast iron	0.50xD	60	0.0010	0.0012	72	0.0015	78	0.0020	0.0025	84	0.0028	0.0030
GJV & ADI												
Aluminium-wrought alloys	0.50xD	102	0.0019	0.0023	122	0.0029	133	0.0038	0.0048	143	0.0054	0.0058
<b>N</b> Aluminium-cast alloys												
Copper and copper alloys	0.50xD	75	0.0018	0.0021	90	0.0027	97.5	0.0035	0.0044	105	0.0049	0.0053
Heat-resistant alloys, Fe-based	0.25xD	60	0.0007	0.0009	72	0.0011	78	0.0014	0.0018	84	0.0020	0.0022
<b>S</b> Heat-resistant alloys, Ni-based, CO-based	0.25xD	34	0.0006	0.0007	41	0.0009	44	0.0012	0.0015	48	0.0016	0.0018
Titanium alloys & pure titanium	0.25xD	54	0.0012	0.0014	65	0.0018	70	0.0024	0.0030	76	0.0034	0.0036

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