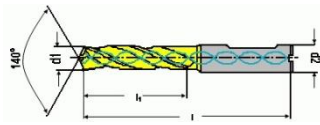
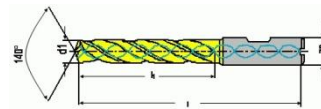




BROCA 4 FACES COM CANAIS DE REFRIGERAÇÃO - DIN6537



**TC - Micro grain ,DIN
6537 short TiN**
 Shank DIN 6535 HEK
 internal cooling **3xD**
 Helix 30° - 35°



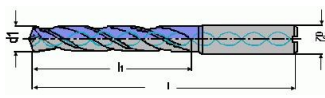
**TC - Micro grain ,DIN
6537 short lang**
 Shank DIN 6535 HEK
 internal cooling **5xD**
 Helix 30° - 35°

Ref.2051 TiN Y140°

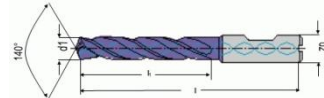
Ref.2052 TiN Y140°

Ref.	d 1 mm	d 2 mm	l mm	l1 mm	-Nr.	d 1 mm	d 2 mm	l mm	l1 mm	Ref.	d 1 mm	d 2 mm	l mm	l1 mm	-Nr.	d 1 mm	d 2 mm	l mm	l1 mm
51.300	3.0	6	62	20	51.760	7.6	8	79	41	52.300	3.0	6	66	28	52.760	7.6	8	91	53
51.310	3.1	6	62	20	51.770	7.7	8	79	41	52.310	3.1	6	66	28	52.770	7.7	8	91	53
51.320	3.2	6	62	20	51.780	7.8	8	79	41	52.320	3.2	6	66	28	52.780	7.8	8	91	53
51.330	3.3	6	62	20	51.790	7.9	8	79	41	52.330	3.3	6	66	28	52.790	7.9	8	91	53
51.340	3.4	6	62	20	51.800	8.0	8	79	41	52.340	3.4	6	66	28	52.800	8.0	8	91	53
51.350	3.5	6	62	20	51.810	8.1	10	89	47	52.350	3.5	6	66	28	52.810	8.1	10	103	61
51.360	3.6	6	62	20	51.820	8.2	10	89	47	52.360	3.6	6	66	28	52.820	8.2	10	103	61
51.370	3.7	6	62	20	51.830	8.3	10	89	47	52.370	3.7	6	66	28	52.830	8.3	10	103	61
51.380	3.8	6	66	24	51.840	8.4	10	89	47	52.380	3.8	6	74	36	52.840	8.4	10	103	61
51.390	3.9	6	66	24	51.850	8.5	10	89	47	52.390	3.9	6	74	36	52.850	8.5	10	103	61
51.400	4.0	6	66	24	51.860	8.6	10	89	47	52.400	4.0	6	74	36	52.860	8.6	10	103	61
51.410	4.1	6	66	24	51.870	8.7	10	89	47	52.410	4.1	6	74	36	52.870	8.7	10	103	61
51.420	4.2	6	66	24	51.880	8.8	10	89	47	52.420	4.2	6	74	36	52.880	8.8	10	103	61
51.430	4.3	6	66	24	51.890	8.9	10	89	47	52.430	4.3	6	74	36	52.890	8.9	10	103	61
51.440	4.4	6	66	24	51.900	9.0	10	89	47	52.440	4.4	6	74	36	52.900	9.0	10	103	61
51.450	4.5	6	66	24	51.910	9.1	10	89	47	52.450	4.5	6	74	36	52.910	9.1	10	103	61
51.460	4.6	6	66	24	51.920	9.2	10	89	47	52.460	4.6	6	74	36	52.920	9.2	10	103	61
51.470	4.7	6	66	24	51.930	9.3	10	89	47	52.470	4.7	6	74	36	52.930	9.3	10	103	61
51.480	4.8	6	66	28	51.940	9.4	10	89	47	52.480	4.8	6	82	44	52.940	9.4	10	103	61
51.490	4.9	6	66	28	51.950	9.5	10	89	47	52.490	4.9	6	82	44	52.950	9.5	10	103	61
51.500	5.0	6	66	28	51.960	9.6	10	89	47	52.500	5.0	6	82	44	52.960	9.6	10	103	61
51.510	5.1	6	66	28	51.970	9.7	10	89	47	52.510	5.1	6	82	44	52.970	9.7	10	103	61
51.520	5.2	6	66	28	51.980	9.8	10	89	47	52.520	5.2	6	82	44	52.980	9.8	10	103	61
51.530	5.3	6	66	28	51.990	9.9	10	89	47	52.530	5.3	6	82	44	52.990	9.9	10	103	61
51.540	5.4	6	66	28	51.1000	10.0	10	89	47	52.540	5.4	6	82	44	52.1000	10.0	10	103	61
51.550	5.5	6	66	28	51.1010	10.1	12	102	55	52.550	5.5	6	82	44	52.1010	10.1	12	118	71
51.560	5.6	6	66	28	51.1020	10.2	12	102	55	52.560	5.6	6	82	44	52.1020	10.2	12	118	71
51.570	5.7	6	66	28	51.1030	10.3	12	102	55	52.570	5.7	6	82	44	52.1030	10.3	12	118	71
51.580	5.8	6	66	28	51.1040	10.4	12	102	55	52.580	5.8	6	82	44	52.1040	10.4	12	118	71
51.590	5.9	6	66	28	51.1050	10.5	12	102	55	52.590	5.9	6	82	44	52.1050	10.5	12	118	71
51.600	6.0	6	66	28	51.1060	10.6	12	102	55	52.600	6.0	6	82	44	52.1060	10.6	12	118	71
51.610	6.1	8	79	34	51.1070	10.7	12	102	55	52.610	6.1	8	91	53	52.1070	10.7	12	118	71
51.620	6.2	8	79	34	51.1080	10.8	12	102	55	52.620	6.2	8	91	53	52.1080	10.8	12	118	71
51.630	6.3	8	79	34	51.1090	10.9	12	102	55	52.630	6.3	8	91	53	52.1090	10.9	12	118	71
51.640	6.4	8	79	34	51.1100	11.0	12	102	55	52.640	6.4	8	91	53	52.1100	11.0	12	118	71
51.650	6.5	8	79	34	51.1110	11.1	12	102	55	52.650	6.5	8	91	53	52.1110	11.1	12	118	71
51.660	6.6	8	79	34	51.1120	11.2	12	102	55	52.660	6.6	8	91	53	52.1120	11.2	12	118	71
51.670	6.7	8	79	34	51.1130	11.3	12	102	55	52.670	6.7	8	91	53	52.1130	11.3	12	118	71
51.680	6.8	8	79	34	51.1140	11.4	12	102	55	52.680	6.8	8	91	53	52.1140	11.4	12	118	71
51.690	6.9	8	79	34	51.1150	11.5	12	102	55	52.690	6.9	8	91	53	52.1150	11.5	12	118	71
51.700	7.0	8	79	34	51.1160	11.6	12	102	55	52.700	7.0	8	91	53	52.1160	11.6	12	118	71
51.710	7.1	8	79	41	51.1170	11.7	12	102	55	52.710	7.1	8	91	53	52.1170	11.7	12	118	71
51.720	7.2	8	79	41	51.1180	11.8	12	102	55	52.720	7.2	8	91	53	52.1180	11.8	12	118	71
51.730	7.3	8	79	41	51.1190	11.9	12	102	55	52.730	7.3	8	91	53	52.1190	11.9	12	118	71
51.740	7.4	8	79	41	51.1200	12.0	12	102	55	52.740	7.4	8	91	53	52.1200	12.0	12	118	71
51.750	7.5	8	79	41						52.750	7.5	8	91	53					

BROCA 4 FACES COM CANAIS DE REFRIGERAÇÃO - DIN6537 65HRC



TC-Micro grain ,DIN 6537
 Four facet point Internal cooling
 Helix 30° - 35° 5xD



TC - Micro grain ,DIN 6537 long TiAlN
 Shank DIN 6535 HEK
 internal cooling 5xD
 Helix 30° - 35°

Ref.2047---Y130°

Ref.2047 TiAlN

Ref.2054 TiAlN Y140°

Ref.	d 1 mm	d 2 mm	l mm	l1 mm	-Nr.	d 1 mm	d 2 mm	l mm	l1 mm
47.300	3.0	6	66	28	47.760	7.6	8	91	53
47.310	3.1	6	66	28	47.770	7.7	8	91	53
47.320	3.2	6	66	28	47.780	7.8	8	91	53
47.330	3.3	6	66	28	47.790	7.9	8	91	53
47.340	3.4	6	66	28	47.800	8.0	8	91	53
47.350	3.5	6	66	28	47.810	8.1	10	103	61
47.360	3.6	6	66	28	47.820	8.2	10	103	61
47.370	3.7	6	66	28	47.830	8.3	10	103	61
47.380	3.8	6	74	36	47.840	8.4	10	103	61
47.390	3.9	6	74	36	47.850	8.5	10	103	61
47.400	4.0	6	74	36	47.860	8.6	10	103	61
47.410	4.1	6	74	36	47.870	8.7	10	103	61
47.420	4.2	6	74	36	47.880	8.8	10	103	61
47.430	4.3	6	74	36	47.890	8.9	10	103	61
47.440	4.4	6	74	36	47.900	9.0	10	103	61
47.450	4.5	6	74	36	47.910	9.1	10	103	61
47.460	4.6	6	74	36	47.920	9.2	10	103	61
47.470	4.7	6	74	36	47.930	9.3	10	103	61
47.480	4.8	6	82	44	47.940	9.4	10	103	61
47.490	4.9	6	82	44	47.950	9.5	10	103	61
47.500	5.0	6	82	44	47.960	9.6	10	103	61
47.510	5.1	6	82	44	47.970	9.7	10	103	61
47.520	5.2	6	82	44	47.980	9.8	10	103	61
47.530	5.3	6	82	44	47.990	9.9	10	103	61
47.540	5.4	6	82	44	47.1000	10.0	10	103	61
47.550	5.5	6	82	44	47.1010	10.1	12	118	71
47.560	5.6	6	82	44	47.1020	10.2	12	118	71
47.570	5.7	6	82	44	47.1030	10.3	12	118	71
47.580	5.8	6	82	44	47.1040	10.4	12	118	71
47.590	5.9	6	82	44	47.1050	10.5	12	118	71
47.600	6.0	6	82	44	47.1060	10.6	12	118	71
47.610	6.1	8	91	53	47.1070	10.7	12	118	71
47.620	6.2	8	91	53	47.1080	10.8	12	118	71
47.630	6.3	8	91	53	47.1090	10.9	12	118	71
47.640	6.4	8	91	53	47.1100	11.0	12	118	71
47.650	6.5	8	91	53	47.1110	11.1	12	118	71
47.660	6.6	8	91	53	47.1120	11.2	12	118	71
47.670	6.7	8	91	53	47.1130	11.3	12	118	71
47.680	6.8	8	91	53	47.1140	11.4	12	118	71
47.690	6.9	8	91	53	47.1150	11.5	12	118	71
47.700	7.0	8	91	53	47.1160	11.6	12	118	71
47.710	7.1	8	91	53	47.1170	11.7	12	118	71
47.720	7.2	8	91	53	47.1180	11.8	12	118	71
47.730	7.3	8	91	53	47.1190	11.9	12	118	71
47.740	7.4	8	91	53	47.1200	12.0	12	118	71
47.750	7.5	8	91	53					

Ref.	d 1 mm	d 2 mm	l mm	l1 mm	-Nr.	d 1 mm	d 2 mm	l mm	l1 mm
54.300	3.0	6	66	28	54.760	7.6	8	91	53
54.310	3.1	6	66	28	54.770	7.7	8	91	53
54.320	3.2	6	66	28	54.780	7.8	8	91	53
54.330	3.3	6	66	28	54.790	7.9	8	91	53
54.340	3.4	6	66	28	54.800	8.0	8	91	53
54.350	3.5	6	66	28	54.810	8.1	10	103	61
54.360	3.6	6	66	28	54.820	8.2	10	103	61
54.370	3.7	6	66	28	54.830	8.3	10	103	61
54.380	3.8	6	74	36	54.840	8.4	10	103	61
54.390	3.9	6	74	36	54.850	8.5	10	103	61
54.400	4.0	6	74	36	54.860	8.6	10	103	61
54.410	4.1	6	74	36	54.870	8.7	10	103	61
54.420	4.2	6	74	36	54.880	8.8	10	103	61
54.430	4.3	6	74	36	54.890	8.9	10	103	61
54.440	4.4	6	74	36	54.900	9.0	10	103	61
54.450	4.5	6	74	36	54.910	9.1	10	103	61
54.460	4.6	6	74	36	54.920	9.2	10	103	61
54.470	4.7	6	74	36	54.930	9.3	10	103	61
54.480	4.8	6	82	44	54.940	9.4	10	103	61
54.490	4.9	6	82	44	54.950	9.5	10	103	61
54.500	5.0	6	82	44	54.960	9.6	10	103	61
54.510	5.1	6	82	44	54.970	9.7	10	103	61
54.520	5.2	6	82	44	54.980	9.8	10	103	61
54.530	5.3	6	82	44	54.990	9.9	10	103	61
54.540	5.4	6	82	44	54.1000	10.0	10	103	61
54.550	5.5	6	82	44	54.1010	10.1	12	118	71
54.560	5.6	6	82	44	54.1020	10.2	12	118	71
54.570	5.7	6	82	44	54.1030	10.3	12	118	71
54.580	5.8	6	82	44	54.1040	10.4	12	118	71
54.590	5.9	6	82	44	54.1050	10.5	12	118	71
54.600	6.0	6	82	44	54.1060	10.6	12	118	71
54.610	6.1	8	91	53	54.1070	10.7	12	118	71
54.620	6.2	8	91	53	54.1080	10.8	12	118	71
54.630	6.3	8	91	53	54.1090	10.9	12	118	71
54.640	6.4	8	91	53	54.1100	11.0	12	118	71
54.650	6.5	8	91	53	54.1110	11.1	12	118	71
54.660	6.6	8	91	53	54.1120	11.2	12	118	71
54.670	6.7	8	91	53	54.1130	11.3	12	118	71
54.680	6.8	8	91	53	54.1140	11.4	12	118	71
54.690	6.9	8	91	53	54.1150	11.5	12	118	71
54.700	7.0	8	91	53	54.1160	11.6	12	118	71
54.710	7.1	8	91	53	54.1170	11.7	12	118	71
54.720	7.2	8	91	53	54.1180	11.8	12	118	71
54.730	7.3	8	91	53	54.1190	11.9	12	118	71
54.740	7.4	8	91	53	54.1200	12.0	12	118	71
54.750	7.5	8	91	53					

Ref. 205308----

TiAlN Y140° Four facet

Ref. 204712----

TiAlN Y140° Four facet



d 1 h6 mm	d 2 h6 mm	l mm	l1 mm
3.0	6	72	32
3.1	6	72	32
3.2	6	72	32
3.3	6	72	32
3.4	6	72	32
3.5	6	72	32
3.6	6	72	32
3.7	6	72	32
3.8	6	78	40
3.9	6	78	40
4.0	6	78	40
4.1	6	78	40
4.2	6	78	40
4.3	6	78	40
4.4	6	78	40
4.5	6	78	40
4.6	6	85	52
4.7	6	85	52
4.8	6	85	52
4.9	6	85	52
5.0	6	85	52
5.1	6	85	52
5.2	6	85	52
5.3	6	85	52
5.4	6	85	52
5.5	6	85	52
5.6	6	85	52
5.7	6	85	52
5.8	6	85	52
5.9	6	85	52
6.0	6	85	52
6.1	8	105	70
6.2	8	105	70
6.3	8	105	70
6.4	8	105	70
6.5	8	105	70
6.6	8	105	70
6.7	8	105	70
6.8	8	105	70
6.9	8	105	70
7.0	8	105	70
7.1	8	105	70
7.2	8	105	70
7.3	8	105	70
7.4	8	105	70
7.5	8	105	70

d 1 h6 mm	d 2 h6 mm	l mm	l1 mm
7.6	8	105	70
7.7	8	105	70
7.8	8	105	70
7.9	8	105	70
8.0	8	105	70
8.1	10	145	90
8.2	10	145	90
8.3	10	145	90
8.4	10	145	90
8.5	10	145	90
8.6	10	145	90
8.7	10	145	90
8.8	10	145	90
8.9	10	145	90
9.0	10	145	90
9.2	10	145	90
9.3	10	145	90
9.4	10	145	90
9.6	10	145	90
9.7	10	145	90
9.8	10	145	90
9.9	10	145	90
10.0	10	145	90
10.2	12	158	108
10.5	12	158	108
10.8	12	158	108
11.0	12	158	108
11.2	12	158	108
11.5	12	158	108
11.8	12	158	108
12.0	12	158	108

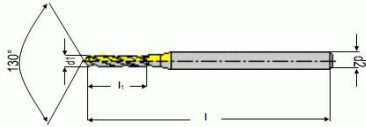
Execution: HSC-IC
 TC - Micro grain ,DIN 6537 long
 Shank DIN 6535 HA internal cooling
 Helix 30° - 35°

Anwendungen
 Bohren von Chrom-Nickel – Stahl, Stahl im
 allgemeinen, rostfreien Stählen, Hartguß
 Temperguß, Nichtferrolegmetallen,
 Titan, Titanlegierungen

EXECUÇÃO PARA WELDON + € 2.50



Broca 4 faces sem canais de refrigeração <45 HRC



Ref.2055 Y130º NÃO REVESTIDA

Ref.	d 1 mm	d 2 mm	l mm	l1 mm
55.050	0.5	3	46	6
55.060	0.6	3	46	6
55.070	0.7	3	46	6
55.080	0.8	3	46	6
55.090	0.9	3	46	8
55.100	1.0	3	46	8
55.110	1.1	3	46	10
55.120	1.2	3	46	10
55.130	1.3	3	46	10
55.140	1.4	3	46	10
55.150	1.5	3	46	10
55.160	1.6	3	46	10
55.170	1.7	3	46	10
55.180	1.8	3	46	11
55.190	1.9	3	46	11
55.200	2.0	3	46	13
55.210	2.1	3	46	13
55.220	2.2	3	46	13
55.230	2.3	3	46	13
55.240	2.4	3	46	15
55.250	2.5	3	46	15
55.260	2.6	3	46	15
55.270	2.7	3	46	15
55.280	2.8	3	46	15
55.290	2.9	3	46	15
55.300	3.0	3	46	15
55.310	3.1	4	55	18
55.320	3.2	4	55	18

Broca 4 faces com canais de refrigeração

Execution:
K 20/30 Micro grain ,
Four facet point 130°
Helix 30° - 35° Coating: TiN

Ref.2055 TiN Y130º

Ref.	d 1 mm	d 2 mm	l mm	l1 mm
55.330	3.3	4	55	18
55.340	3.4	4	55	20
55.350	3.5	4	55	20
55.360	3.6	4	55	20
55.370	3.7	4	55	20
55.380	3.8	4	55	22
55.390	3.9	4	55	22
55.400	4.0	4	55	22
55.410	4.1	5	62	22
55.420	4.2	5	62	22
55.430	4.3	5	62	24
55.440	4.4	5	62	24
55.450	4.5	5	62	24
55.460	4.6	5	62	24
55.470	4.7	5	62	24
55.480	4.8	5	62	26
55.490	4.9	5	62	26
55.500	5.0	5	62	26
55.510	5.1	6	66	26
55.520	5.2	6	66	26
55.530	5.3	6	66	26
55.540	5.4	6	66	28
55.550	5.5	6	66	28
55.560	5.6	6	66	28
55.570	5.7	6	66	28
55.580	5.8	6	66	28
55.590	5.9	6	66	28
55.600	6.0	6	66	28