

CATALOGUE

2015 – 2016

**HTR**  
PRECISION  
CUTTING TOOLS



**PERFORMANCE THROUGH QUALITY**

# Introduction

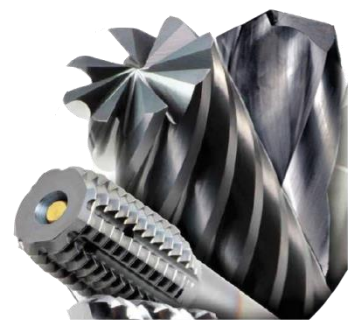
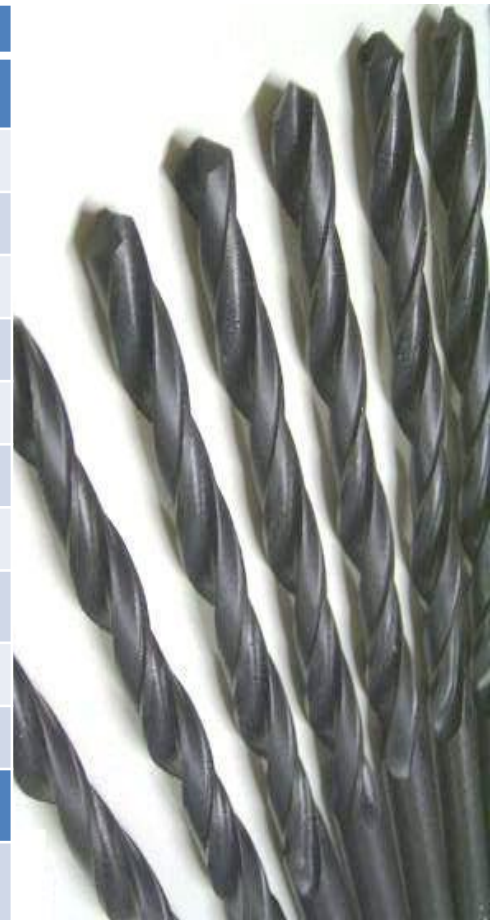
HTR Precision Cutting Tools is a wholly owned black empowered company incorporated for the purpose of manufacturing and supplying precision cutting tools, in response to the growing market demands for high quality precision cutting tools that is reasonably priced.

HTR Precisions Cutting Tools is proud to offer you the complete range of cutting tools of superior quality according to international standards.

HTR Precision Cutting Tools is synonymous with expertise in the tooling industry, our collective experience spans over a 100 years . Our customers processes is our focal point using our knowledge and experience with a collaborative, systematic targeted approach to get the most out of the customers tooling process. In this continuous endeavour to enhance the tooling and services offered to our customers we strive for excellence by being passionate to deliver quality at a reasonable price.



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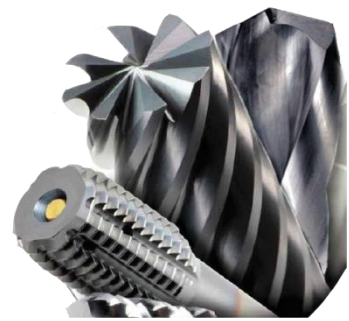


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# HSS JOBBER DRILLS



## TECHNICAL DATA

MATERIAL: M2

SPECIFICATION: DIN338

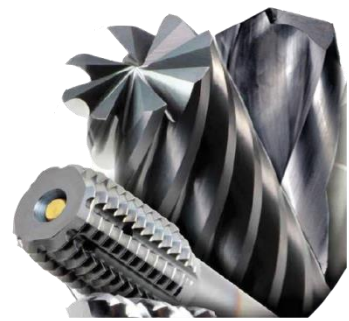
POINT ANGLE: 118°

HELIX ANGLE: 30°

TOLERANCE: H8

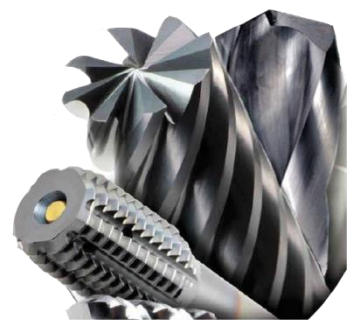
# HSS JOBBER DRILLS

Size	Working	Overall	Code
( mm )	Length	Length	
1	12	34	1JD0100
1.5	18	40	1JD0150
2	24	49	1JD0200
2.2	27	53	1JD0220
2.4	30	57	1JD0240
2.5	30	57	1JD0250
2.8	33	61	1JD0280
3	33	61	1JD0300
3.1	36	65	1JD0310
3.2	36	65	1JD0320
3.3	36	65	1JD0330
3.5	39	70	1JD0350
3.8	43	75	1JD0380
4	43	75	1JD0400
4.1	43	75	1JD0410
4.2	43	75	1JD0420
4.5	47	80	1JD0450
4.8	52	86	1JD0480
4.9	52	86	1JD0490
5	52	86	1JD0500
5.1	52	86	1JD0510
5.2	52	86	1JD0520
5.4	57	93	1JD0540
5.5	57	93	1JD0550
5.8	57	93	1JD0580
6	57	93	1JD0600
6.1	63	101	1JD0610
6.2	63	101	1JD0620
6.5	63	101	1JD0650
6.8	69	109	1JD0680



# HSS JOBBER DRILLS

Size	Working	Overall	Code
( mm )	Length	Length	
7	69	109	1JD0700
7.1	109	163	1JD0710
7.5	69	109	1JD0750
8	75	117	1JD0800
8.5	75	117	1JD0850
9	81	125	1JD0900
9.5	81	125	1JD0950
10	87	133	1JD1000
10.1	87	133	1JD1010
10.2	87	133	1JD1020
10.5	87	133	1JD1050
11	94	142	1JD1100
11.5	94	142	1JD1150
12	101	151	1JD1200
12.5	101	151	1JD1250
13	101	151	1JD1300
13.5	108	160	1JD1350
14	108	160	1JD1400
14.5	114	169	1JD1450
15	115	200	1JD1500
16	120	178	1JD1600
17	100	189	1JD1700
18	130	191	1JD1800





# SINGLE ENDED STUB DRILLS



## TECHNICAL DATA

**MATERIAL: M2**

**SPECIFICATION: DIN338**

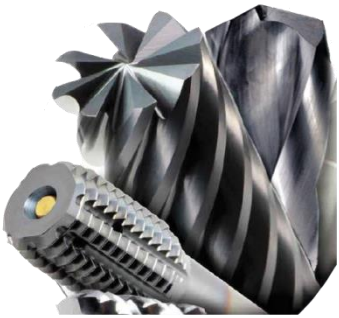
**POINT ANGLE: 118°**

**HELIX ANGLE: 30°**

**TOLERANCE: H8**

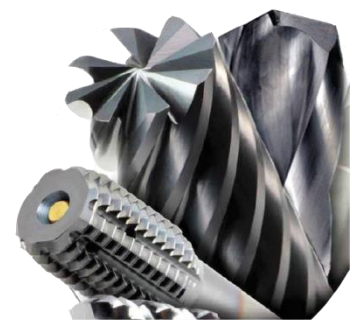
# SINGLE ENDED STUB DRILLS

Size	Working	Overall	Code
( mm )	Length	Length	
1.5	9	32	1SE0150
2	12	38	1SE0200
2.5	14	43	1SE0250
3	16	46	1SE0300
3.5	20	52	1SE0350
4	22	55	1SE0400
4.5	24	58	1SE0450
4.9	26	62	1SE0490
5	26	62	1SE0500
5.5	28	66	1SE0550
6	28	66	1SE0600
6.5	31	70	1SE0650
7	34	74	1SE0700
7.5	34	74	1SE0750
8	37	79	1SE0800
8.5	37	79	1SE0850
9	40	84	1SE0900
9.5	40	84	1SE0950



# SINGLE ENDED STUB DRILLS

Size	Working	Overall	Code
( mm )	Length	Length	
10	43	89	1SE1000
10.5	43	89	1SE1050
11	47	95	1SE1100
11.5	47	95	1SE1150
12	51	102	1SE1200
12.5	51	102	1SE1250
13	51	102	1SE1300



# DOUBLE ENDED STUB DRILLS



## TECHNICAL DATA

MATERIAL: M2

SPECIFICATION: WORKS STD

POINT ANGLE: 130°

HELIX ANGLE: 30°

TOLERANCE: H8

# DOUBLE ENDED STUB DRILLS

Size	Working	Overall	Code
( mm )	Length	Length	
2	6	38	1DE0200
2.2	7	40	1DE0220
2.5	8	43	1DE0250
2.8	9	46	1DE0280
3	9	46	1DE0300
3.2	10	49	1DE0320
3.3	10	49	1DE0330
3.5	11	52	1DE0350
3.8	12	55	1DE0380
4	12	55	1DE0400
4.1	12	55	1DE0410
4.2	12	55	1DE0420
4.5	13	58	1DE0450
4.8	14	62	1DE0480
4.9	14	62	1DE0490



# DOUBLE ENDED STUB DRILLS

Size	Working	Overall	Code
( mm )	Length	Length	
5	14	62	1DE0500
5.2	14	62	1DE0520
5.5	15	66	1DE0550
5.8	15	66	1DE0580
6	15	66	1DE0600
6.2	16	70	1DE0620
6.5	16	70	1DE0650
7	18	74	1DE0700
7.5	19	80	1DE0750
8	19	80	1DE0800



# HSS LONG SERIES DRILLS



## TECHNICAL DATA

**MATERIAL: M2**

**SPECIFICATION: DIN340**

**POINT ANGLE: 118°**

**HELIX ANGLE: 30°**

**TOLERANCE: H8**

# HSS LONG SERIES DRILLS

Size	Working	Overall	Code
( mm )	Length	Length	
1	33	56	1LS0100
1.5	45	70	1LS0150
2	56	85	1LS0200
2.5	62	95	1LS0250
3	66	100	1LS0300
3.5	73	112	1LS0350
4	78	119	1LS0400
4.5	82	126	1LS0450
5	87	132	1LS0500
5.5	91	139	1LS0550
6	91	139	1LS0600
6.5	97	148	1LS0650
7	102	156	1LS0700
7.5	102	156	1LS0750
8	109	165	1LS0800
8.5	109	165	1LS0850
9	115	175	1LS0900
9.5	115	175	1LS0950
10	121	184	1LS1000
10.5	121	184	1LS1050
11	128	195	1LS1100
11.5	128	195	1LS1150
12	134	205	1LS1200
12.5	134	205	1LS1250
13	134	205	1LS1300





# HSSEXTRA LENGTH DRILLS



## TECHNICAL DATA

MATERIAL: M2

SPECIFICATION: ISO 3292

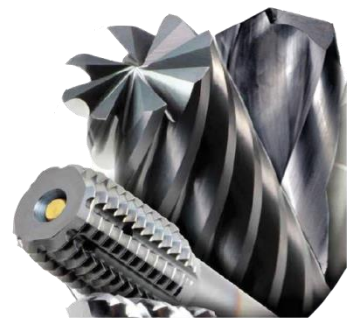
POINT ANGLE: 118°

HELIX ANGLE: 30°

TOLERANCE: H8

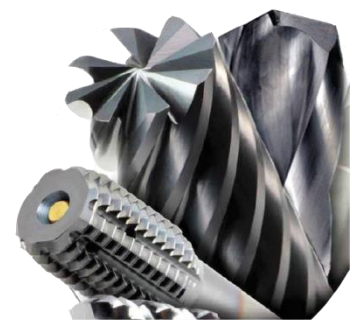
# HSS EXTRA LENGTH DRILLS

Size	Working	Overall	Code
( mm )	Length	Length	
<b>80 x 125</b>			
1.5	80	125	1E10150
2	80	125	1E10290
2.5	80	125	1E10250
3	80	125	1E10300
<b>100 x 160</b>			
1.5	100	160	1E20150
2	100	160	1E20200
2.5	100	160	1E20250
3	100	160	1E20300
3.5	100	160	1E20350
4	100	160	1E20400
4.5	100	160	1E20450
5	100	160	1E20500
5.5	100	160	1E20550
6	100	160	1E20600
<b>160 x 200</b>			
2	160	200	1E30200
2.5	160	200	1E30250
3	160	200	1E30300
3.5	160	200	1E30350
4	160	200	1E30400
4.5	160	200	1E30450
5	160	200	1E30500
5.5	160	200	1E30550
6	160	200	1E30600
6.5	160	200	1E30650
7	160	200	1E30700
7.5	160	200	1E30750
8	160	200	1E30800
8.5	160	200	1E30850
9	160	200	1E30900
9.5	160	200	1E30950
10	160	200	1E31000



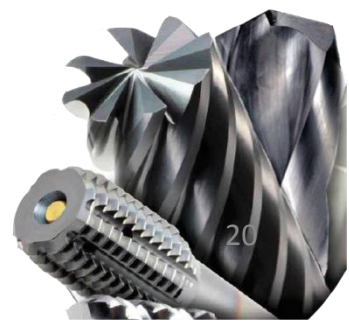
# HSSEXTRA LENGTH DRILLS

Size	Working	Overall	Code
( mm )	Length	Length	
<b>200 x 250</b>			
3	200	250	1E40300
3.5	200	250	1E40350
4	200	250	1E40400
4.5	200	250	1E40450
5	200	250	1E40500
5.5	200	250	1E40550
6	200	250	1E40600
6.5	200	250	1E40650
7	200	250	1E40700
7.5	200	250	1E40750
8	200	250	1E40800
8.5	200	250	1E40850
9	200	250	1E40900
9.5	200	250	1E40950
10	200	250	1E41000
10.5	200	250	1E41050
11	200	250	1E41100
11.5	200	250	1E41150
12	200	250	1E41200
12.5	200	250	1E41250
13	200	250	1E41300
<b>250 x 315</b>			
3	250	315	1E50300
4	250	315	1E50400
5	250	315	1E50500
6	250	315	1E50600
7	250	315	1E50700
8	250	315	1E50800
9	250	315	1E50900
10	250	315	1E51000
11	250	315	1E51100
12	250	315	1E51200
13	250	315	1E51300



# HSS EXTRA LENGTH DRILLS

Size	Working	Overall	Code
( mm )	Length	Length	
300 x 400			
4	300	400	1E60400
5	300	400	1E60500
6	300	400	1E60600
7	300	400	1E60700
8	300	400	1E60800
9	300	400	1E60900
10	300	400	1E61000
11	300	400	1E61100
12	300	400	1E61200
13	300	400	1E61300



# HSS CENTRE DRILLS



**TECHNICAL DATA**

**MATERIAL: M2**

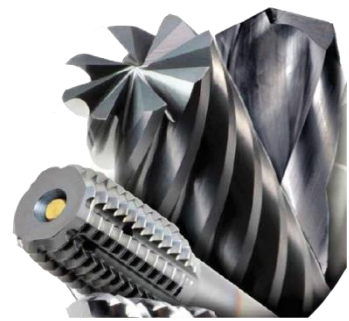
**SPECIFICATION: DIN 333**

**CONE ANGLE: 60°**

**FORM: A**

# HSS CENTRE DRILLS

Pilot Diameter	Body Diameter	Flute Length	Overall Length	Code
1.6	4	2	35.5	1CD0160
2	5	2.5	40	1CD0200
2.5	6.3	3.1	45	1CD0250
3.15	8	3.9	50	1CD0315
4	10	5	56	1CD0400
5	12.5	6.3	63	1CD0500
6.3	16	8	71	1CD0630
8	20	10.1	80	1CD0800
10	25	12.8	100	1CD1000





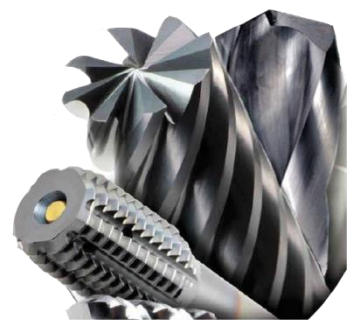
## TECHNICAL DATA

**MATERIAL: MILLED FLUTE ZINC PLATED CARBIDE TIP**

**SPECIFICATION: DIN 8039**

# MASONRY DRILLS

Size	Working	Overall	Code
( mm )	Length	Length	
3	28	60	1MD0300
3.5	35	70	1MD0350
4	40	75	1MD0400
4.5	50	85	1MD0450
5	50	85	1MD0500
5.5	50	85	1MD0550
6	60	100	1MD0600
6.5	60	100	1MD0650
7	60	100	1MD0700
8	80	120	1MD0800
8.5	80	120	1MD0850
9	80	120	1MD0900
9.5	80	120	1MD0950
10	80	120	1MD1000
11	90	150	1MD1100
12	90	150	1MD1200
13	90	150	1MD1300
14	90	150	1MD1400
15	90	150	1MD1500
16	90	150	1MD1600
18	100	160	1MD1800
19	100	160	1MD1900
20	100	160	1MD2000
22	100	160	1MD2200
24	100	160	1MD2400
25	100	160	1MD2500





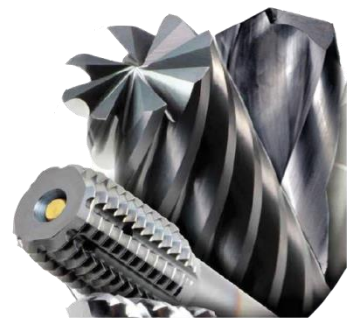


**TECHNICAL DATA**

**SPECIFICATION: SAND LASTERED CARIDE TIP**

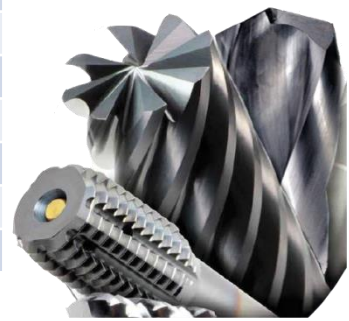
# SDS PLUS DRILLS

Size	Working	Overall	Code
( mm )	Length	Length	
5	50	110	1SD0501
5	100	160	1SD0502
5	150	210	1SD0503
6	100	160	1SD0602
6	150	210	1SD0603
6	200	260	1SD0604
8	50	110	1SD0801
8	100	160	1SD0802
8	150	210	1SD0803
8	200	260	1SD0804
10	50	110	1SD1001
10	100	160	1SD1002
10	150	210	1SD1003
10	200	260	1SD1004
10	250	310	1SD1005
10	300	350	1SD1006
10	350	410	1SD1007
10	400	450	1SD1008
12	100	160	1SD1202
12	150	210	1SD1203
12	250	310	1SD1205
12	300	350	1SD1206
12	350	410	1SD1207
12	400	450	1SD1208
14	100	160	1SD1402
14	150	210	1SD1403
14	200	260	1SD1404
14	250	310	1SD1405
14	300	350	1SD1406
14	350	410	1SD1407
14	400	450	1SD1408
14	550	600	1SD1409
16	100	160	1SD1602
16	150	210	1SD1603
16	200	260	1SD1604
16	250	310	1SD1605



# SDS PLUS DRILLS

Size	Working	Overall	Code
( mm )	Length	Length	
16	300	350	1SD1606
16	350	410	1SD1607
16	550	600	1SD1609
20	150	210	1SD2003
20	200	260	1SD2004
20	300	350	1SD2006
20	350	400	1SD2007
20	400	450	1SD2008
20	550	600	1SD2009
22	150	210	1SD2203
22	200	260	1SD2204
22	300	310	1SD2205
22	250	350	1SD2206
22	350	400	1SD2207
22	550	600	1SD2209
24	150	210	1SD2403
24	200	260	1SD2404
24	250	310	1SD2405
24	350	410	1SD2407
24	400	450	1SD2408
25	150	210	1SD2503
25	200	260	1SD2504
25	250	310	1SD2505
25	300	350	1SD2506
25	400	450	1SD2508
25	550	600	1SD2509
26	150	210	1SD2603
26	200	260	1SD2604
26	250	310	1SD2605
26	300	350	1SD2606
26	350	410	1SD2607
26	400	450	1SD2608
26	550	600	1SD2609



# MORSE TAPER SHANK DRILLS



## TECHNICAL DATA

**MATERIAL: M2**

**SPECIFICATION: DIN 345**

**POINT ANGLE: 118°**

**HELIX ANGLE: 30°**

**TOLERANCE: H8**

# MORSE TAPER SHANK DRILLS

Size	Working	Overall	Code
( mm )	Length	Length	
<b>No.1 Shank</b>			
6	57	138	2MT0600
6.5	63	144	2MT0650
7	69	150	2MT0700
7.5	69	150	2MT0750
8	75	156	2MT0800
8.5	75	156	2MT0850
9	81	162	2MT0900
9.5	81	162	2MT0950
10	87	168	2MT1000
10.5	87	168	2MT1050
11	94	175	2MT1100
11.5	94	175	2MT1150
12	101	182	2MT1200
12.5	101	182	2MT1250
13	101	182	2MT1300
13.5	108	189	2MT1350
14	108	189	2MT1400
<b>No.2 Shank</b>			
14	114	212	2MT1401
14.5	114	212	2MT1450
15	114	212	2MT1500
15.5	120	218	2MT1550
16	120	218	2MT1600
16.5	125	223	2MT1650
17	125	223	2MT1700
17.5	130	228	2MT1750
18	130	228	2MT1800
18.5	135	223	2MT1850



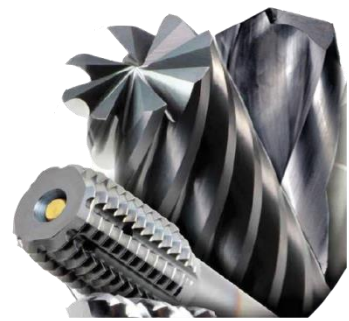
# MORSE TAPER SHANK DRILLS

Size	Working	Overall	Code
( mm )	Length	Length	
<b>No.2 Shank</b>			
19	135	223	2MT1900
19.5	140	238	2MT1950
20	140	238	2MT2000
20.5	145	243	2MT2050
21	145	243	2MT2100
21.5	150	248	2MT2150
22	150	248	2MT2200
22.5	155	253	2MT2250
23	155	253	2MT2300
<b>No.3 Shank</b>			
23.5	155	276	2MT2350
24	160	281	2MT2400
24.5	160	281	2MT2450
25	160	281	2MT2500
25.5	165	286	2MT2550
26	165	286	2MT2600
26.5	165	286	2MT2650
27	170	291	2MT2700
27.5	170	291	2MT2750
28	170	291	2MT2800
28.5	175	296	2MT2850
29	175	296	2MT2900
29.5	175	296	2MT2950
30	175	296	2MT3000
30.5	180	301	2MT3050
31	180	301	2MT3100
31.5	180	301	2MT3150
32	185	306	2MT3200



# MORSE TAPER SHANK DRILLS

Size	Working	Overall	Code
( mm )	Length	Length	
<b>No.4 Shank</b>			
32	185	334	2MT3201
33	185	334	2MT3300
34	190	339	2MT3400
35	190	339	2MT3500
36	195	344	2MT3600
37	195	344	2MT3700
38	200	349	2MT3800
39	200	349	2MT3900
40	200	349	2MT4000
41	205	354	2MT4100
42	205	354	2MT4200
43	210	359	2MT4300
44	210	359	2MT4400
45	210	359	2MT4500
46	215	364	2MT4600
47	215	364	2MT4700
48	220	369	2MT4800
49	220	369	2MT4900
50	220	369	2MT5000
<b>No.5 Shank</b>			
51	225	412	2MT5100
52	225	412	2MT5200
53	225	412	2MT5300
54	230	417	2MT5400
55	230	417	2MT5500
56	230	417	2MT5600
57	235	422	2MT5700
58	235	422	2MT5800
59	235	422	2MT5900
60	235	422	2MT6000
61	255	430	2MT6100
63	255	430	2MT6300



# HSS-Co HEAVY DUTY MORSE TAPER DRILLS



## TECHNICAL DATA

**MATERIAL: Co5e**

**SPECIFICATION: DIN 345**

**POINT ANGLE: 118°**

**HELIX ANGLE: 30°**

**TOLERANCE: H8**



# HSS-Co HEAVY DUTY MORSE TAPER DRILLS

Size	Working	Overall	Code
( mm )	Length	Length	
<b>No.1 Shank</b>			
14	108	189	2MH1400
<b>No.2 Shank</b>			
14.5	114	212	2MH1450
15	114	212	2MH1500
15.5	120	218	2MH1550
16	120	218	2MH1600
16.5	125	223	2MH1650
17	125	223	2MH1700
17.5	130	228	2MH1750
18	130	228	2MH1800
18.5	135	233	2MH1850
19	135	233	2MH1900
19.5	140	238	2MH1950
20	140	238	2MH2000
20.5	145	243	2MH2050
21	145	243	2MH2100
21.5	150	248	2MH2150
22	150	248	2MH2200
22.5	155	253	2MH2250
23	155	253	2MH2300
<b>No.3 Shank</b>			
23.5	155	276	2MH2350
24	160	281	2MH2400
24.5	160	281	2MH2450
25	160	281	2MH2500
26	165	286	2MH2600
27	170	291	2MH2700
28	170	291	2MH2800
29	175	296	2MH2900
30	175	296	2MH3000
31	180	301	2MH3100
<b>No.4 Shank</b>			
32	185	334	2MH3200
33	185	334	2MH3300
34	190	339	2MH3400
35	190	339	2MH3500



# HSS-Co8e MULTI-FLUTE END MILLS



## TECHNICAL DATA

**MATERIAL: HSS**

**SPECIFICATION: BS 122**

**HELIX ANGLE: 30°**

**TOLERANCE: H8**

**CUTTING: RH**

**THREAD SHANK REGULAR LENGTH**

# HSS-Co8e MULTI-FLUTE END MILLS

Size	Working	Overall	Code
( mm )	Length	Length	
3	9.5	54	3MA0300
4	12.5	57	3MA0400
5	16	60.5	3MA0500
6	16	60.5	3MA0600
8	18	63.5	3MA0800
10	21	66.5	3MA1000
12	24	70	3MA1200
14	28.5	73	3MA1400
16	26.5	77	3MA1600
18	35	80	3MA1800
19	38	83.5	3MA1900
20	38	83.5	3MA2000
25	44.5	101.5	3MA2500
30	46	104.5	3MA3000
40	55.5	117.5	3MA4000
50	65	127	3MA5000
<b>INCH SIZES</b>			
1/4"	16	60	3MA0635
3/8"	22	67	3MA0953
1/2"	24	70	3MA1270
5/8"	32	77	3MA1588



# HSS-Co8e MULTI-FLUTE END MILLS - LONG SERIES

Size	Working	Overall	Code
( mm )	Length	Length	
6	31.5	76	3MB0600
8	34	79.5	3MB0800
10	37	82.5	3MB1000
12	49.5	95	3MB1200
6	31.5	76	3MB0600
8	34	79.5	3MB0800
10	37	82.5	3MB1000
12	49.5	95	3MB1200
16	58.5	108.5	3MB1600
20	76	121.5	3MB2000
25	100	157	3MB2500
40	101.5	163.5	3MB4000



# HSS-Co8e 3FLUTE END MILLS

Size	Working	Overall	Code
( mm )	Length	Length	
5	16	60.5	3HA0500
6	16	60.5	3HA0600
8	18	63.5	3HA0800
10	21	66.5	3HA1000
12	24	70	3HA1200
14	28.5	73	3HA1400
16	26.5	77	3HA1600
18	35	80	3HA1800
20	38	83.5	3HA2000



# HSS-Co8e 2FLUTE END MILLS



## TECHNICAL DATA

**MATERIAL: HSS**

**SPECIFICATION: BS 122**

**HELIX ANGLE: 30°**

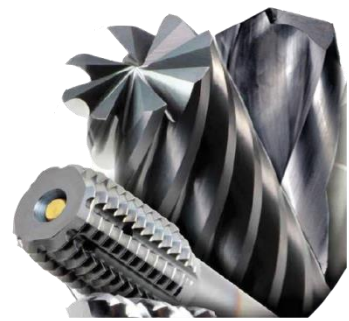
**TOLERANCE: H8**

**CUTTING: RH**

**THREAD SHANK REGULAR LENGTH**

# HSS-Co8e 2FLUTE END MILLS

Size	Working	Overall	Code
( mm )	Length	Length	
6	16	76	3BB0600
8	19	79.5	3BB0800
10	22	82.5	3BB1000
12	25.5	95	3BB1200
16	31.5	108	3BB1600
20	38	120.5	3BB2000



# HSS-Co8e 2FLUTE END MILLS

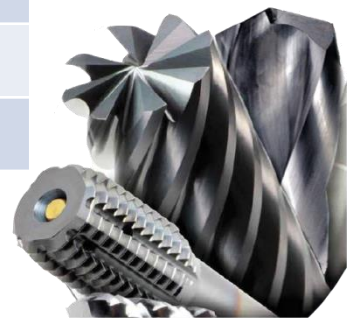
Size	Working	Overall	Code
( mm )	Length	Length	
2	4	48	3BA0200
3	5	49	3BA0300
4	7	51	3BA0400
5	8	52	3BA0500
6	8	52	3BA0600
7	10	60	3BA0700
8	11	61	3BA0800
9	11	61	3BA0900
10	13	63	3BA1000
11	13	70	3BA1100
12	16	73	3BA1200
13	16	73	3BA1300
14	16	73	3BA1400
15	16	73	3BA1500
16	19	79	3BA1600
17	19	79	3BA1700
18	19	79	3BA1800
19	19	79	3BA1900
20	19	79	3BA2000
22	26	102	3BA2200





# HSS-Co8e 2FLUTE END MILLS

Size	Working	Overall	Code
( mm )	Length	Length	
24	26	102	3BA2400
25	26	102	3BA2500
26	26	102	3BA2600
28	26	102	3BA2800
30	26	102	3BA3000
32	32	112	3BA3200
35	32	112	3BA3500
38	38	118	3BA3800
40	38	118	3BA4000
45	38	118	3BA4500
50	45	125	3BA5000
INCH SIZES			
3/16"	10	52	3BA0476
1/4"	11	56	3BA0635
5/16"	13	60	3BA0794
3/8"	14	60	3BA0953
1/2"	19	67	3BA1270
5/8"	22	72	3BA1588
3/4"	25	77	3BA1905
1"	27	95	3BA2540



# HSS-Co8e 2FLUTE BALL NOSE



## TECHNICAL DATA

**MATERIAL: HSS**

**SPECIFICATION: DIN 327**

**HELIX ANGLE: 30°**

**TOLERANCE: H8**

**CUTTING: RH**

**THREAD SHANK REGULAR LENGTH**

# HSS-Co8e 2FLUTE BALL NOSE

Size	Working	Overall	Code
( mm )	Length	Length	
3	5	49	3EA0300
4	7	51	3EA0400
5	8	52	3EA0500
6	8	52	3EA0600
8	11	61	3EA0800
10	13	63	3EA1000
12	16	73	3EA1200
16	19	79	3EA1600
20	19	79	3EA2000
25	26	102	3EA2500



# HSS-Co8e ROUGHING END MILLS



● **TECHNICAL DATA**

● **MATERIAL: M2**

● **SPECIFICATION: BS 122**

● **HELIX ANGLE: 30°**

● **TOLERANCE: H8**

● **CUTTING: RH**

● **THREAD SHANK REGULAR LENGTH COARSE PITCH**

# HSS-Co8e MULTI-FLUTE END MILLS

Size	Working	Overall	Code
( mm )	Length	Length	
12	24	70	3QA1200
14	28.5	73	3QA1400
16	26.5	77	3QA1600
18	35	80	3QA1800
20	38	83.5	3QA2000
25	44.5	101.5	3QA2500
50	65	127	3QA5000
<b>LONG SERIES</b>			
14	57	101.5	3QB1400
16	58.5	108.5	3QB1600
20	76	121.5	3QB2000
25	100	157	3QB2500
30	98.5	157	3QB3000
38	101.5	163.5	3QB3800
50	101.5	163.5	3QB5000



# HSS HAND TAPS



● TECHNICAL DATA

● MATERIAL: HSS

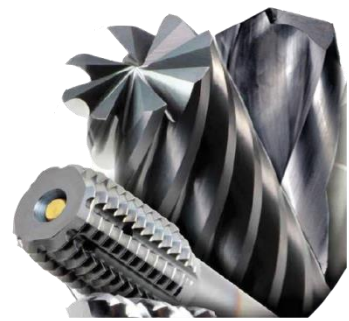
● SPECIFICATION: ISO 529

● FLANK ANGLE: 60°

● APPLICATION: RH

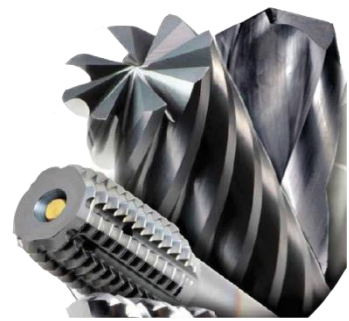
# HSS HAND TAPS METRIC COURSE

Size	Working Length	Overall Length	Shank Diameter	Square Diameter	Code
M3X.5	11	48	3.15	2.5	5TC0300
M4X.7	13	53	4	3.15	5TC0400
M5X.8	16	58	5	4	5TC0500
M6X1.0	19	66	6.3	5	5TC0600
M8X1.25	22	72	8	6.3	5TC0800
M10X1.5	24	80	10	8	5TC1000
M12X1.75	29	89	9	7.1	5TC1200
M14X2.0	30	95	11.2	9	5TC1400
M16X2.0	32	102	12.5	10	5TC1600
M18X2.5	37	112	14	11.2	5TC1800
M20X2.5	37	112	14	11.2	5TC2000
M22X2.5	38	118	16	12.5	5TC2200
M24X3.0	45	130	18	14	5TC2400



# HSS HAND TAPS METRIC FINE

Size	Working Length	Overall Length	Shank Diameter	Square Diameter	Code
MF6X.75	19	66	6.3	5.0	5TF0600
MF8X.75	19	69	8	6.0	5TF0790
MF8X1.0	19	69	8	6.3	5TF0800
MF10X1.0	20	76	10	8.0	5TF1000
MF10X1.25	20	76	10	8.0	5TF1010
MF12X1.0	24	84	9	7.1	5TF1190
MF12X1.25	24	84	9	7.1	5TF1200
MF12X1.5	29	89	9	7.1	5TF1210
MF14X1.25	25	90	11.2	9.0	5TF1400
MF14X1.5	30	95	11.2	9.0	5TF1410
MF16X1.5	32	102	12.5	10.0	5TF1600
MF18X1.5	29	104	14	11.2	5TF1780
MF20X1.5	29	104	14	11.2	5TF2000
MF22X1.5	33	113	16	12.5	5TF2200
MF24X1.5	35	120	18	14.0	5TF2400





# HSSE-V3 SPIRAL POINT MACHINE TAPS



**TECHNICAL DATA**

**MATERIAL: M2**

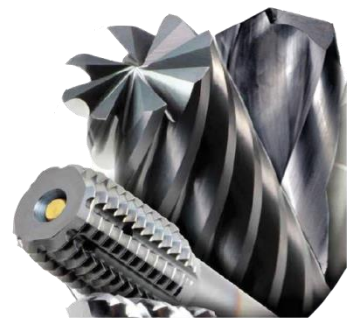
**SPECIFICATION: ISO 529**

**FLANK ANGLE: 60°**

**APPLICATION: RH**

# HSSE-V3 SPIRAL POINT MACHINE TAPS

Size	Working Length	Overall Length	Shank Diameter	Square Diameter	Code
M16X2.0	32	102	12.5	10	5SP1600
M18X2.5	37	112	14	11.2	5SP1800
M20X2.5	37	112	14	11.2	5SP2000
M22X2.5	38	118	16	12.5	5SP2200
M24X3.0	45	130	18	14	5SP2400
M27X3.0	45	135	20	16	5SP2700
M30X3.5	48	138	20	16	5SP3000
M33X3.5	51	151	22.4	18	5SP3300
M36X4.0	57	162	25	20	5SP3600



# HSS DIE NUTS



● **TECHNICAL DATA**

● **MATERIAL: M2**

● **SPECIFICATION: DIN 382**

● **FLANK ANGLE: 60°**

● **APPLICATION: RH**

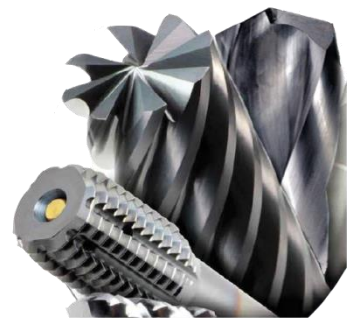
# HSS DIE NUTS METRIC COARSE

Size	Working	Overall	Code
( mm )	Length	Length	
M3X0.50	19	5	5DC0300
M4X0.70	19	5	5DC0400
M5X0.80	19	7	5DC0500
M6X1.00	19	7	5DC0600
M8X1.25	22	9	5DC0800
M10X1.50	27	11	5DC1000
M12X1.75	36	14	5DC1200
M14X2.00	36	14	5DC1400
M16X2.00	41	18	5DC1600
M18X2.50	41	18	5DC1800
M20X2.50	41	18	5DC2000
M22X2.50	50	22	5DC2200
M24X3.00	50	22	5DC2400



# HSS DIE NUTS METRIC FINE

Size	Working	Overall	Code
( mm )	Length	Length	
MF3X0.35	19	5	5DF0300
MF4X0.5	19	5	5DF0400
MF6X0.75	19	7	5DF0610
MF8X0.75	22	9	5DF0790
MF8X1	22	9	5DF0800
MF10X0.75	27	11	5DF0990
MF10X1	27	11	5DF1000
MF10X1.25	27	11	5DF1010
MF12X1	36	10	5DF1190
MF12X1.25	36	10	5DF1200
MF12X1.5	36	10	5DF1210
MF14X1	36	10	5DF1390
MF14X1.25	36	10	5DF1400



# HSS DIE NUTS METRIC FINE

Size	Working	Overall	Code
( mm )	Length	Length	
MF14X1.5	36	10	5DF1410
MF16X1	41	14	5DF1590
MF16X1.5	41	14	5DF1600
MF18X1	41	14	5DF1780
MF18X1.5	41	14	5DF1800
MF18X2	41	14	5DF1810
MF20X1	41	14	5DF1990
MF20X1.5	41	14	5DF2000
MF20X2	41	14	5DF2010
MF22X1	50	16	5DF2190
MF22X1.5	50	16	5DF2200
MF24X1.5	50	16	5DF2400
MF24X2	50	16	5DF2410



# ROUND TOOLBITS



**TECHNICAL DATA**

**MATERIAL: M2**

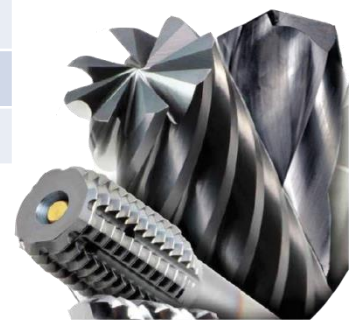
**SPECIFICATION: ISO 5421**

**TOLERANCE: H8 (D)**

**APPLICATION: RH**

# ROUND TOOLBITS

Size	Working	Overall
( mm )	Length	Length
4	63	6RT0400
4	80	6RT0401
4	100	6RT0402
5	100	6RT0500
6	63	6RT0600
6	80	6RT0601
6	100	6RT0602
6	200	6RT0603
8	63	6RT0800
8	80	6RT0801
8	100	6RT0802
8	160	6RT0803
10	63	6RT1000
10	80	6RT1001
10	100	6RT1002
10	160	6RT1003
10	200	6RT1004
12	80	6RT1200
12	100	6RT1201
12	160	6RT1202
12	200	6RT1203
16	100	6RT1600
16	160	6RT1601
16	200	6RT1602
20	160	6RT2000
20	200	6RT2001
25	200	6RT2500





# HSS DRILL SETS



Description	Set Consists Of	Code
HSS 1-13 x 0.5 Drill Set	25 Drills	1DS0040

## TECHNICAL DATA

MATERIAL: M2

SPECIFICATION: DIN338

POINT ANGLE: 118°

HELIX ANGLE: 30°

TOLERANCE: H8

# SDS DRILL SETS



Description	Code
8 PCS SDS PLUS DRILL SET	1SD0080
Set Contains	
5 x 50 x 110mm	8 x 100 x 160
6 x 50 x 110mm	10 x 100 x 160
8 x 50 x 110mm	12 x 100 x 160
6 X 100 X160	12 x 150 x 210

**TECHNICAL DATA**

**SPECIFICATION: SAND LASTERED CARIDE TIP**

# SDS DRILL SETS

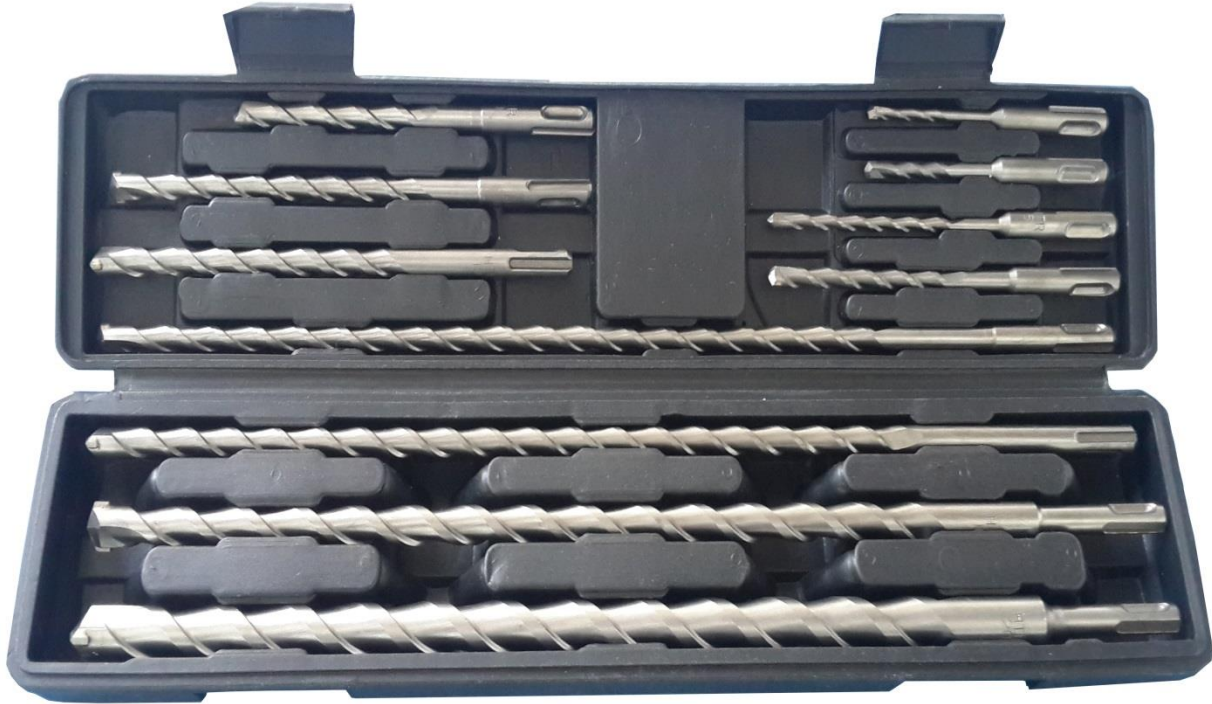


Description	Code
5 PCS SDS PLUS DRILL SET	1SD0050
Set Contains	
5 x 50 x 110mm	8 x 100 x 160mm
6 x 50 x 110mm	10 x 100 x 160mm
6 x 100 x 160mm	

## TECHNICAL DATA

SPECIFICATION: SAND LASTERED CARIDE TIP

# SDS DRILL SETS



Description	Code
11PCS SDS PLUS DRILL SET	1SD0110
Set Contains	
5 x 50 x 110mm	12 x 150 x 210mm
6 x 50 x 110mm	10 x 400 x 450mm
6 x 100 x 160mm	12 x 400 x 450mm
8 x 100 x 160mm	16 x 400 x 450mm
10 x 100 x 160mm	20 x 400 x 450mm
10 x 150 x 210mm	

**TECHNICAL DATA**

**SPECIFICATION: SAND LASTERED CARIDE TIP**

# CENTER DRILL SETS



Description	Code
1 x 1mm	3 x 3.15 mm
1 x 1.6mm	2 x 4mm
2 x 2mm	1 x 5mm
2 x 2.5mm	

**TECHNICAL DATA**

**MATERIAL: M2**

**SPECIFICATION: DIN 333**

**CONE ANGLE: 60°**

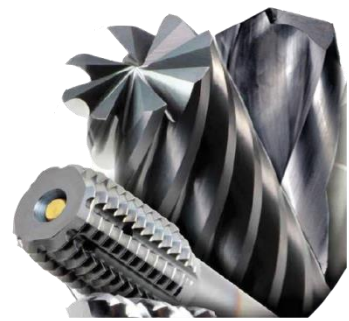
**FORM: A**

# DIAMOND CUTTING DISCS



# DIAMOND CUTTING DISCS

DIA.	WIDTH	BORE	CODE
DRY CUTTING			
115	2	22.2	4DD0115
230	2	22.2	4DD0230
WET CUTTING			
115	2	22.2	4DW0115
230	2	22.2	4DW0230
TURBO CUTTING			
115	2	22.2	4DT0 115
230	2	22.2	4DT0230
3 PIECE SET			
115	2	22.2	43P0115



# METAL CUTTING DISCS



DIA.	WIDTH	BORE	CODE
115	3	22.2	9CD0115
115	2	22.2	9CD1152
230	3	22.2	9CD0230
115	1	22.23	9CD01151
355	3	25.4	9CD3551
400	3	25.4	9CD4001

# GRINDING DISCS

DIA.	WIDTH	BORE	CODE
115	6	22.2	9GG0115
230	6	22.2	9GD0230

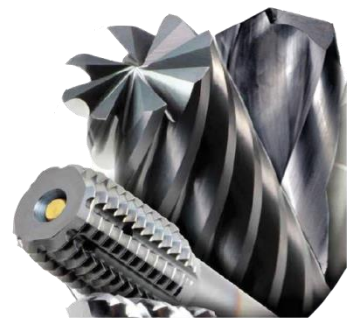


# T29 ALUMINIUM OXIDE FLAP DISC



# T29 ALUMINIUM OXIDE FLAP DISC

DIAMETER	BORE	GRIT	Code
100	16	40	910004A
100	16	60	910006A
100	16	80	910008A
100	16	100	910010A
100	16	120	910012A
115	22.2	40	9115040A
115	22.2	60	9115060A
115	22.2	80	9115080A
115	22.2	100	911510A
115	22.2	120	9115120A
125	22.2	40	912504A
125	22.2	60	912506A
125	22.2	80	912508A
125	22.2	100	912510A
125	22.2	120	912512A
150	22.2	40	915040A
150	22.2	60	915060A
150	22.2	80	915080A
150	22.2	100	915010A
150	22.2	120	915012A
180	22.2	40	918040A
180	22.2	60	918060A
180	22.2	80	918080A
180	22.2	100	918010A
180	22.2	120	918012A

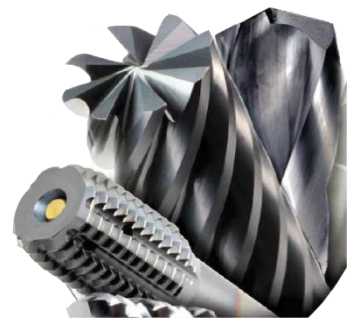


# CARBIDE INSERTS



# CARBIDE INSERTS

Description	Code
150-10-3N-16 T25M	8150101
CCMT09T304-HMP NC3220	8CCMT01
CCMT09T304-MF2-CP3500	8CCMT02
DCMT 11T308-HMP NC3220	8DCMT01
GFN 3IC 354	8GFN301
RPMN 120400 NCM 325 RPMN43	8RPMN01
SNMG 120408-M3 TP2500	8SNMG01
TNMG 332 - GN IC9025	8TNMG01
TPCN 2204 POR NCM 325	8TPCN01
TPMR 322 PF IC9250	8TPMR01
TPMR 321 - PF IC9250 2.25	8TPMR02
WNMG 080 408-M3 TP2500	8WNMG01
WNMG 060408-VM CN3010	8WNMG02
WNMG080404-M3 TP2500	8WNMG03



# ANNULAR /BROACH CUTTERS



● TECHNICAL DATA

● MATERIAL: M2AL

● SPECIFICATION: REGULAR AND LONG SHANKS

# ANNULAR /BROACH CUTTERS (SLUGGER BITS)

Size ( mm )	Working Length	Overall Length	Code
12	30	62	3AC1230
14	30	62	3AC1430
16	30	62	3AC1630
18	30	62	3AC1830
22	30	62	3AC2230
24	30	62	3AC2430
26	30	62	3AC2630
12	50	81	3AC1250
14	50	81	3AC1450
16	50	81	3AC1650
18	50	81	3AC1850
22	50	81	3AC2250
24	50	81	3AC2450
26	50	81	3AC2650

## BROACH PINS

Size	Working	Overall	Code
Long	6,35	9,9	Pilot Pin Long
Short	6,35	8,6	Pilot Pin Short



# SOLID CARBIDE ENDMILLS



● **TECHNICAL DATA**

● **MATERIAL: 10% COBALT**

● **SPECIFICATION: HRC 45 -55**

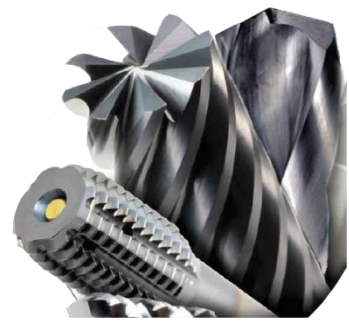
● **TIALN COATED**

## 2 FLUTE METRIC STD LENGTH (UNCOATED) HRC 45 - 50

Size ( mm )	Working Length	Overall Length	Code
6	19	51	C2S0600
8	21	63	C2S0800
10	22	76	C2S1000
12	25	76	C2S1200

## 2 FLUTE METRIC LONG SERIES SQUARE (UNCOATED) HRC 45 - 50

Size ( mm )	Working Length	Overall Length	Code
6	28	76	C2L0600
8	29	76	C2L0800
10	32	102	C2L1000
12	51	102	C2L1200
20	57	127	C2L2000





## 4 FLUTE METRIC SQUARE TIALN COATED HRC 45-50

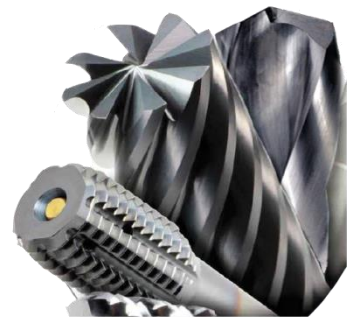
Size ( mm )	Working Length	Overall Length	Code
6	19	51	C4S0600
8	21	63	C4S0800
10	22	76	C4S1000
12	25	76	C4S1200

## 4 FLUTE METRIC SQUARE LONG SERIES TIALN COATED HRC 45-50

Size ( mm )	Working Length	Overall Length	Code
6	28	76	C4L0600
8	29	76	C4L0800
10	32	102	C4L1000
12	51	102	C4L1200

## 4 FLUTE METRIC SQUARE LONG SERIES TIALN COATED HRC 55 - 60

Size ( mm )	Working Length	Overall Length	Code
6	19	51	C4S060C
8	21	63	C4S080C
10	22	76	C4S100C
12	25	76	C4S120C



# 6 FLUTE FINISHING ENDMILL TIALN COATED HRC 45-50

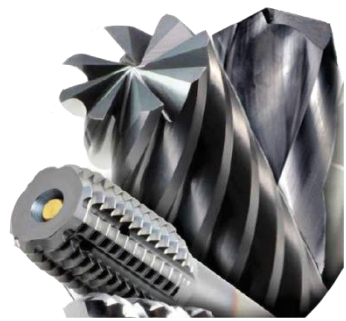
Size ( mm )	Working Length	Overall Length	Code
6	16	60	C6L0600
8	20	75	C6L0800
10	25	80	C6L1000
12	30	100	C6L1200

# 2 FLUTE JOBBER DIN338 TIALN COATING HRC 45-50

Size ( mm )	Working Length	Overall Length	Code
6	19	51	C4S060C
8	21	63	C4S080C
10	22	76	C4S100C
12	25	76	C4S120C



# SPADE BITS

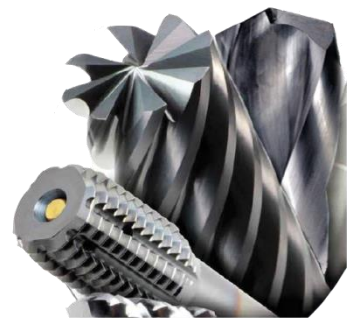


# SPADE BITS

Size	Code
6	1SP0600
8	1SP0800
10	1SP1000
12	1SP1200
13	1SP1300
14	1SP1400
16	1SP1600
18	1SP1800
19	1SP1900
20	1SP2000
25	1SP2500
30	1SP3000
32	1SP3200
35	1SP3500



# ALUMINIUM RIVETS



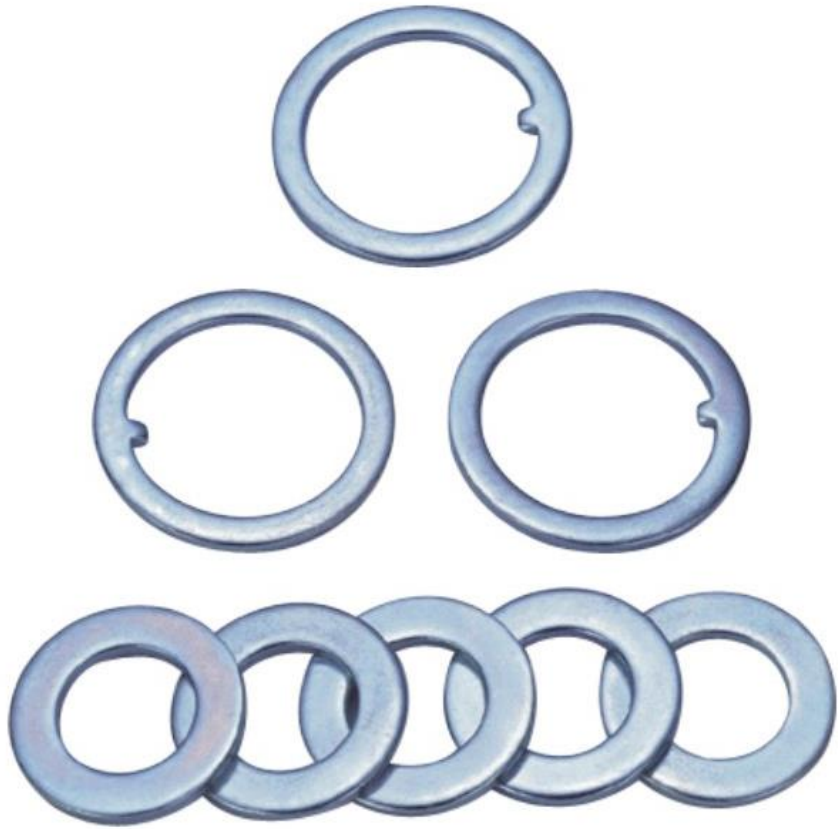
# ALUMINIUM RIVETS

Size	Working length	Code 100	Code 1000
3.2	6	1RB3206	1RT3206
3.2	10	1RB3210	1RT3210
4	8	1RB4008	1RT4008
4	10	1RB4010	1RT4010
4	12	1RB4012	1RT4012
4	15	1RB4015	1RT4015
4.8	10	1RB4810	1RT4810
4.8	12	1RB4812	1RT4812
4.8	15	1RB4815	1RT4815
4.8	18	1RB4818	1RT4818
4.8	21	1RB4821	1RT4821

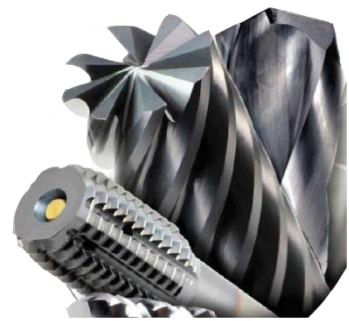
**PLEASE NOTE ALL RIVET PRICING HAS BEEN DISCOUNTED AND IS NETT EXCLUDING VAT**



# ALUMINIUM WASHERS



Size	Working length	Code 100
3.3	12.5	1.6
4.1	12.5	1.6



# ANCHOR EXPANSION BOLT



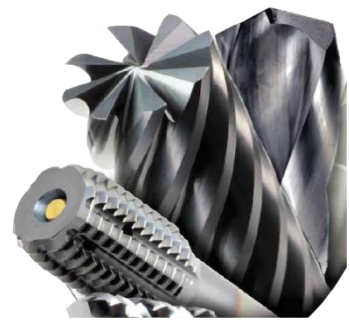
Size	Working length	Code
6	50	1AB6050
8	60	1AB8060
10	70	1AB1070
12	90	1AB1290







Size	Working length	Code
PZ1	25	1P0125
PZ1	50	1PB0150
PZ2	25	1PB0225
PZ2	50	1PB0250



# MANUFACTURED COUNTER SINKS



# MANUFACTURED HSS COUNTER SINKS 3 FLUTE 60°

CODE	NORMINAL	MINOR	OVERALL LENGTH	SHANK
8C36063	6.3	1.5	45	5
8C36008	8	2	50	6
8C36010	10	2.5	50	6
8C36012	12.5	2.8	56	8
8C36016	16	3.2	60	10
8C36020	20	3.2	60	10
8C36025	25	3.5	63	10
8C36030	30	3.8	67	10
8C36031	31	4.2	71	12

# MANUFACTURED HSS COUNTER SINKS 3 FLUTE 90°

CODE	NORMAL	MINOR	OVERALL LENGTH	SHANK
8C39063	6.3	1.5	45	5
8C39008	8.3	2	50	6
8C39010	10.4	2.5	50	6
8C39012	12.5	2.8	56	8
8C39016	16	3.2	60	10
8C39020	20.5	3.2	60	10
8C39025	25	3.5	63	10
8C39030	30	3.8	67	10
8C39031	31	4.2	71	12

# CONTACT DETAILS



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# HTR

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