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THAT'S GOLDEN RATIO TIP

**3X LONGER LIFE
IN STAINLESS STEEL**

**DESIGN FOR
FAST & CLEAN HOLES**

**DARE TO CHALLENGE
ANY DRILL BITS
MADE IN CHINA**

PATENT PROTECTED

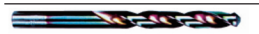
INSTRUCTION FOR HSS TWIST DRILL



1 PRODUCTION TECHNICS

	Roll Forged
	Roll&Edge Ground
	Fully Ground

2 SURFACE FINISHING

	Black Finished
	Black & bright
	Bright Finished
	Tin Coated
	Rainbow Color
	Bronze Oxide
	Black&Gold
	Amber

3 MATERIAL

HSS-M2/W9341/W4341/W4241	Roll Forged/Edge Ground
HSS-M35/M2/W9341/W4341/W4241	Fully Ground

4 CUTTING EDGE

	118° General Angle
	118° /135° Split Point

5 REDUCED SHANK

	1/4 shank (6.5mm)
	3/8 shank (10.0mm)
	1/2 shank (13.0mm)

HSS STRAIGHT SHANK TWIST DRILL

DIN338



NOTE: SPLIT POINT AVAILABLE FROM 3MM ON.

DIA (MM)	INCH (")	L2 (MM)	L1 (MM)	DIA (MM)	INCH (")	L2 (MM)	L1 (MM)	DIA (MM)	INCH (")	L2 (MM)	L1 (MM)	DIA (MM)	INCH (")	L2 (MM)	L1 (MM)	DIA (MM)	INCH (")	L2 (MM)	L1 (MM)	DIA (MM)	INCH (")	L2 (MM)	L1 (MM)
1.0	1/32	12	34	4.0	5/32	43	75	7.5	19/64	69	109	11.0	27/64,7/16	94	142	14.5	9/16	114	169	18.0	45/64	130	191
1.5	3/64	18	40	4.5	11/64	47	80	8.0	5/16	75	117	11.5	29/64	94	142	15.0	37/64	114	169	18.5	23/32	135	198
2.0	1/16,5/64	24	49	5.0	3/16	52	86	8.5	21/64	75	117	12.0	15/32	101	151	15.5	19/32,39/64	120	178	19.0	47/64	135	198
2.5	3/32	30	57	5.5	13/64,7/32	57	93	9.0	11/32,23/64	81	125	12.5	31/64	101	151	16.0	5/8	120	178	19.5	3/4,49/64	140	205
3.0	7/64	33	61	6.0	15/64	57	93	9.5	3/8	81	125	13.0	1/2	101	151	16.5	41/64	125	184	20.0	25/32	140	205
3.2	1/8	36	65	6.5	1/4,17/64	63	101	10.0	25/64	87	133	13.5	33/64,17/32	108	160	17.0	21/32	125	184				
3.5	9/64	39	70	7.0	9/32	69	109	10.5	13/32	87	133	14.0	35/64	108	160	17.5	43/64,11/16	130	191				

DIN340



NOTE: SPLIT POINT AVAILABLE FROM 3MM ON.

DIA (MM)	INCH (")	L2 (MM)	L1 (MM)	DIA (MM)	INCH (")	L2 (MM)	L1 (MM)	DIA (MM)	INCH (")	L2 (MM)	L1 (MM)	DIA (MM)	INCH (")	L2 (MM)	L1 (MM)	DIA (MM)	INCH (")	L2 (MM)	L1 (MM)	DIA (MM)	INCH (")	L2 (MM)	L1 (MM)
1.0	1/32	33	56	3.2	1/8	69	106	5.5	13/64,7/32	91	139	8.0	5/16	109	165	10.5	13/32	121	184	13.0	1/2	134	205
1.5	3/64	45	70	3.5	9/64	73	110	6.0	15/64	91	139	8.5	21/64	109	165	11.0	27/64,7/16	128	195				
2.0	1/16,5/64	56	85	4.0	5/32	78	119	6.5	1/4,17/64	97	148	9.0	11/32,23/64	115	175	11.5	29/64	128	195				
2.5	3/32	62	95	4.5	11/64	82	126	7.0	9/32	102	156	9.5	3/8	115	175	12.0	15/32	134	205				
3.0	7/64	63	100	5.0	3/16	87	132	7.5	19/64	102	156	10.0	25/64	121	184	12.5	31/64	134	205				

DIN1897



NOTE: SPLIT POINT AVAILABLE FROM 3MM ON.

DIA (MM)	INCH (")	L2 (MM)	L1 (MM)	DIA (MM)	INCH (")	L2 (MM)	L1 (MM)	DIA (MM)	INCH (")	L2 (MM)	L1 (MM)	DIA (MM)	INCH (")	L2 (MM)	L1 (MM)	DIA (MM)	INCH (")	L2 (MM)	L1 (MM)	DIA (MM)	INCH (")	L2 (MM)	L1 (MM)
1.0	1/32	6	26	3.2	1/8	18	49	5.5	13/64,7/32	28	66	8.0	5/16	37	79	10.5	13/32	43	89	13.0	1/2	51	102
1.5	3/64	9	32	3.5	9/64	20	52	6.0	15/64	28	66	8.5	21/64	37	79	11.0	27/64,7/16	47	95				
2.0	1/16,5/64	12	38	4.0	5/32	22	55	6.5	1/4,17/64	31	70	9.0	11/32,23/64	40	84	11.5	29/64	47	95				
2.5	3/32	14	43	4.5	11/64	24	58	7.0	9/32	34	74	9.5	3/8	40	84	12.0	15/32	51	102				
3.0	7/64	16	46	5.0	3/16	26	62	7.5	19/64	34	74	10.0	25/64	43	89	12.5	31/64	51	102				

DIN1869



DIA (MM)	L2 (MM)	L1 (MM)	DIA (MM)	L2 (MM)	L1 (MM)	DIA (MM)	L2 (MM)	L1 (MM)	DIA (MM)	L2 (MM)	L1 (MM)	DIA (MM)	L2 (MM)	L1 (MM)	DIA (MM)	L2 (MM)	L1 (MM)	DIA (MM)	L2 (MM)	L1 (MM)
3.0	130	190	8.0	210	190	13.0	260	375	8.0	265	390	13.0	330	480	6.5	150	215	11.5	195	280
3.5	145	210	8.5	210	210	3.5	180	265	8.5	265	390	2.0	85	125	7.0	155	225			
4.0	150	220	9.0	220	220	4.0	190	280	9.0	280	410	2.5	95	140	7.5	155	225			
4.5	160	235	9.5	220	235	4.5	200	295	9.5	280	410	3.0	100	150	8.0	165	240	12.0	205	295
5.0	170	245	10.0	235	245	5.0	210	315	10.0	295	430	3.5	115	165	8.5	165	240			
5.5	180	260	10.5	235	260	5.5	225	330	10.5	295	430	4.0	120	175	9.0	175	250			
6.0	180	260	11.0	250	260	6.0	225	330	11.0	310	455	4.5	125	185	9.5	175	250	12.5	205	295
6.5	190	275	11.5	250	275	6.5	235	350	11.5	310	455	5.0	135	195	10.0	185	265			
7.0	200	290	12.0	260	290	7.0	250	370	12.0	330	480	5.5	140	205	10.5	185	265			
7.5	200	290	12.5	260	290	7.5	250	370	12.5	330	480	6.0	140	205	11.0	195	280	13.0	205	295

ANSI B94.11M--JOBBER LENGTH

NOTE: SPLIT POINT AVAILABLE FROM 1/8" ON.

SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)	SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)	SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)	SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)	SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)
1/16	.0625	7/8	1-7/8	5/32	.2188	2	3-1/8	1/4	.2500	2-3/4	4	11/32	.3438	3-7/16	4-5/8	7/16	.4375	4-1/16	5-1/2
5/64	.0781	1	2	11/64	.1719	2-1/8	3-1/4	17/64	.2656	2-7/8	4-1/8	23/64	.3594	3-1/2	4-7/8	29/64	.4531	4-3/16	5-5/8
3/32	.0938	1-1/4	2-1/4	3/16	.1875	2-5/16	3-1/2	9/32	.2812	2-15/16	4-1/4	3/8	.3750	3-5/8	5	15/32	.4688	4-5/16	5-3/4
7/64	.1094	1-1/2	2-5/8	13/64	.2031	2-7/16	3-5/8	19/64	.2969	3-1/16	4-3/8	25/64	.3906	3-3/4	5-1/8	31/64	.4844	4-3/8	5-7/8
1/8	.1250	1-5/8	2-3/4	7/32	.2188	2-1/2	3-3/4	5/16	.3125	3-3/16	4-1/2	13/32	.4062	3-7/8	5-1/4	1/2	.5000	4-1/2	6
9/64	.1406	1-3/4	2-7/8	15/64	.2344	2-5/8	3-7/8	21/64	.3281	3-5/16	4-3/4	27/64	.4219	3-15/16	5-3/8				

ANSI B94.11M--JOBBER LENGTH

NOTE: SPLIT POINT AVAILABLE FROM 1/8" ON.

SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)	SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)	SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)	SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)	SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)
#1	.2280	2-5/8	3-7/8	#14	.1820	2-3/16	3-3/8	#27	.1440	1-7/8	3	#40	.0980	1-3/8	2-3/8	#53	.0595	7/8	1-7/8
#2	.2210	2-5/8	3-7/8	#15	.1800	2-3/16	3-3/8	#28	.1405	1-3/4	2-7/8	#41	.0960	1-3/8	2-3/8	#54	.0550	7/8	1-7/8
#3	.2130	2-1/2	3-3/4	#16	.1770	2-3/16	3-3/8	#29	.1360	1-3/4	2-7/8	#42	.0935	1-1/4	2-1/4	#55	.0520	7/8	1-7/8
#4	.2090	2-1/2	3-3/4	#17	.1730	2-3/16	3-3/8	#30	.1285	1-5/8	2-3/4	#43	.0890	1-1/4	2-1/4	#56	.0465	3/4	1-3/4
#5	.2055	2-1/2	3-3/4	#18	.1695	2-1/8	3-1/4	#31	.1200	1-5/8	2-3/4	#44	.0860	1-1/8	2-1/8	#57	.0430	3/4	1-3/4
#6	.2040	2-1/2	3-3/4	#19	.1660	2-1/8	3-1/4	#32	.1160	1-5/8	2-3/4	#45	.0820	1-1/8	2-1/8	#58	.0420	11/16	1-5/8
#7	.2010	2-7/16	3-5/8	#20	.1610	2-1/8	3-1/4	#33	.1130	1-1/2	2-5/8	#46	.0810	1-1/8	2-1/8	#59	.0410	11/16	1-5/8
#8	.1990	2-7/16	3-5/8	#21	.1590	2-1/8	3-1/4	#34	.1110	1-1/2	2-5/8	#47	.0785	1	2	#60	.0400	11/16	1-5/8
#9	.1960	2-7/16	3-5/8	#22	.1570	2	3-1/8	#35	.1100	1-1/2	2-5/8	#48	.0760	1	2				
#10	.1935	2-7/16	3-5/8	#23	.1540	2	3-1/8	#36	.1065	1-7/16	2-1/2	#49	.0730	1	2				
#11	.1910	2-5/16	3-1/2	#24	.1520	2	3-1/8	#37	.1040	1-7/16	2-1/2	#50	.0700	1	2				
#12	.1890	2-5/16	3-1/2	#25	.1495	1-7/8	3	#38	.1015	1-7/16	2-1/2	#51	.0670	1	2				
#13	.1850	2-5/16	3-1/2	#26	.1470	1-7/8	3	#39	.0995	1-3/8	2-3/8	#52	.0635	7/8	1-7/8				

ANSI B94.11M--JOBBER LENGTH

NOTE: SPLIT POINT AVAILABLE FROM 1/8" ON.

SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)	SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)	SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)	SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)	SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)
A	.2340	2-5/8	3-7/8	G	.2610	2-7/8	4-1/8	M	.2950	3-1/16	4-3/8	S	.3480	3-1/2	4-7/8	#53	.0595	7/8	1-7/8
B	.2380	2-3/4	4	H	.2660	2-7/8	4-1/8	N	.3020	3-1/16	4-3/8	T	.3580	3-1/2	4-7/8	#54	.0550	7/8	1-7/8
C	.2420	2-3/4	4	I	.2720	2-7/8	4-1/8	O	.3160	3-3/16	4-1/2	U	.3680	3-5/8	5	#55	.0520	7/8	1-7/8
D	.2460	2-3/4	4	J	.2770	2-7/8	4-1/8	P	.3230	3-5/16	4-3/4	V	.3770	3-5/8	5	#56	.0465	3/4	1-3/4
E	.2500	2-3/4	4	K	.2810	2-15/16	4-1/4	Q	.3320	3-7/16	4-5/8	W	.3860	3-3/4	5-1/8	#57	.0430	3/4	1-3/4
F	.2570	2-7/8	4-1/8	L	.2900	2-15/16	4-1/4	R	.3390	3-7/16	4-5/8	X	.3970	3-3/4	5-1/8	#58	.0420	11/16	1-5/8
																#59	.0410	11/16	1-5/8
																#60	.0400	11/16	1-5/8

ANSI B94.11M--JOBBER LENGTH JIS STANDARD

NOTE: SPLIT POINT AVAILABLE FROM 1/8" ON.

SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)	SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)	SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)	SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)	SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)
1.0MM	.0394	17	41	3.5MM	.1378	44	73	6.0MM	.2362	70	102	9.0MM	.3543	89	124	12.0MM	.4724	111	149
1.5MM	.0591	22	48	4.0MM	.1575	54	83	6.5MM	.2559	73	105	9.5MM	.3740	92	127				
2.0MM	.0787	25	51	4.2MM	.1654	54	83	7.0MM	.2756	73	105	10.0MM	.3937	95	130	12.5MM	.4921	114	152
2.5MM	.0984	35	60	4.5MM	.1772	56	86	7.5MM	.2953	78	111	10.5MM	.4134	98	133				
3.0MM	.1181	41	70	5.0MM	.1969	62	92	8.0MM	.3150	81	114	11.0MM	.4331	103	140	13.0MM	.5118	114	152
3.3MM	.1299	44	73	5.5MM	.2165	64	95	8.5MM	.3346	87	121	11.5MM	.4528	106	143				

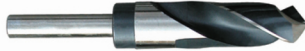
ANSI B94.11M--AIRCRAFT EXTENSION

NOTE: SPLIT POINT AVAILABLE FROM 1/8" ON.

SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)	SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)	SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)	SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)	SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)
1/16	.0625	7/8	6 OR 12	9/64	.1406	1-3/4	6 OR 12	7/32	.2188	2-1/2	6 OR 12	19/64	.2969	3-1/16	6 OR 12	3/8	.3750	3-5/8	6 OR 12
5/64	.0781	1	6 OR 12	5/32	.1562	2	6 OR 12	15/64	.2344	2-5/8	6 OR 12	5/16	.3125	3-3/16	6 OR 12	7/16	.4375	4-1/16	6 OR 12
3/32	.0938	1-1/4	6 OR 12	11/64	.1719	2-1/8	6 OR 12	1/4	.2500	2-3/4	6 OR 12	21/64	.3281	3-5/16	6 OR 12	1/2	.5000	4-1/2	6 OR 12
7/64	.1094	1-1/2	6 OR 12	3/16	.1875	2-5/16	6 OR 12	17/64	.2656	2-7/8	6 OR 12	11/32	.3438	3-7/16	6 OR 12				
1/8	.1250	1-5/8	6 OR 12	13/64	.2031	2-7/16	6 OR 12	9/32	.2812	2-15/16	6 OR 12	23/64	.3594	3-1/2	6 OR 12				

HSS REDUCE SHANK TWIST DRILL

SILVER&DEMING DRILL, 1/2" SHANK



NOTE: SHANK CAN BE ROUND OR 3 FLATS

SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)	SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)	SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)	SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)	SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)
1/2	1-1/64	3	6	5/8	1-1/8	3	6	49/64	1-15/64	3	6	7/8	1-11/32	3	6	61/64	1-29/64	3	6
33/64	1-1/32	3	6	21/32	1-9/64	3	6	25/32	1-1/4	3	6	57/64	1-23/64	3	6	31/32	1-15/32	3	6
17/32	1-3/64	3	6	43/64	1-5/32	3	6	51/64	1-17/64	3	6	29/32	1-3/8	3	6	63/64	1-31/64	3	6
35/64	1-1/16	3	6	11/16	1-11/64	3	6	13/16	1-9/32	3	6	59/64	1-25/64	3	6	1	1-1/2	3	6
9/16	1-5/64	3	6	23/32	1-3/16	3	6	53/64	1-19/64	3	6	29/32	1-13/32	3	6				
37/64	1-3/32	3	6	47/64	1-13/64	3	6	27/32	1-5/16	3	6	59/64	1-27/64	3	6				
19/32	1-7/64	3	6	3/4	1-7/32	3	6	55/64	1-21/64	3	6	15/16	1-7/16	3	6				

DIN345



DIA (MM)	L1 (MM)	L2 (MM)	MT NO.	DIA (MM)	L1 (MM)	L2 (MM)	MT NO.	DIA (MM)	L1 (MM)	L2 (MM)	MT NO.	DIA (MM)	L1 (MM)	L2 (MM)	MT NO.	DIA (MM)	L1 (MM)	L2 (MM)	MT NO.	DIA (MM)	L1 (MM)	L2 (MM)	MT NO.	DIA (MM)	L1 (MM)	L2 (MM)	MT NO.	DIA (MM)	L1 (MM)	L2 (MM)	MT NO.
7.5	150	69	1	15.25	218	120	2	21.75	248	150	2	28.25	296	175	3	37.5	349	200	4	50.5	374	220	4	76.0	447	260	5				
8.0	156	75	1	15.5	218	120	2	22.0	248	150	2	28.5	296	175	3	38.0	349	200	4	51.0	412	225	4	77.0	514	260	6				
8.5	156	75	1	15.75	218	120	2	22.25	253	155	2	28.75	296	175	3	38.5	349	200	4	52.0	412	225	5	78.0	514	260	6				
9.0	162	81	1	16.0	218	120	2	22.5	253	155	2	29.0	296	175	3	39.0	349	200	4	53.0	412	225	5	79.0	514	260	6				
9.5	162	81	1	16.25	223	125	2	22.75	253	155	2	29.25	296	175	3	39.5	349	200	4	54.0	417	230	5	80.0	514	260	6				
10.0	168	87	1	16.5	223	125	2	23.0	253	155	2	29.5	296	175	3	40.0	349	200	4	55.0	417	230	5	81.0	519	265	6				
10.2	168	87	1	16.75	223	125	2	23.25	276	155	3	29.75	296	175	3	40.5	354	205	4	56.0	417	230	5	82.0	519	265	6				
10.5	168	87	1	17.0	223	125	2	23.5	276	155	3	30.0	296	175	3	41.0	354	205	4	57.0	422	235	5	83.0	519	265	6				
10.8	175	94	1	17.25	228	130	2	23.75	281	160	3	30.25	301	180	3	41.5	354	205	4	58.0	422	235	5	84.0	519	265	6				
11.0	175	94	1	17.5	228	130	2	24.0	281	160	3	30.5	301	180	3	42.0	354	205	4	59.0	422	235	5	85.0	519	265	6				
11.2	175	94	1	17.75	228	130	2	24.25	281	160	3	30.75	301	180	3	42.5	354	205	4	60.0	422	235	5	86.0	524	270	6				
11.5	175	94	1	18.0	228	130	2	24.5	281	160	3	31.0	301	180	3	43.0	359	210	4	61.0	427	240	5	87.0	524	270	6				
11.8	175	94	1	18.25	233	135	2	24.75	281	160	3	31.25	301	180	3	43.5	359	210	4	62.0	427	240	5	88.0	524	270	6				
12.0	182	101	1	18.5	233	135	2	25.0	281	160	3	31.5	301	180	3	44.0	359	210	4	63.0	427	240	5	89.0	524	270	6				
12.2	182	101	1	18.75	233	135	2	25.25	286	165	3	31.75	306	185	3	44.5	359	210	4	64.0	432	245	5	90.0	524	270	6				
12.5	182	101	1	19.0	233	135	2	25.5	286	165	3	32.0	334	185	4	45.0	359	210	4	65.0	432	245	5	91.0	529	275	6				
12.8	182	101	1	19.25	238	140	2	25.75	286	165	3	32.5	334	185	4	45.5	364	215	4	66.0	432	245	5	92.0	529	275	6				
13.0	182	101	1	19.5	238	140	2	26.0	286	165	3	33.0	334	185	4	46.0	364	215	4	67.0	432	245	5	93.0	529	275	6				
13.2	182	101	1	19.75	238	140	2	26.25	286	165	3	33.5	334	185	4	46.5	364	215	4	68.0	437	250	5	94.0	529	275	6				
13.5	189	108	1	20.0	238	140	2	26.5	286	165	3	34.0	339	190	4	47.0	364	215	4	69.0	437	250	5	95.0	529	275	6				
13.8	189	108	1	20.25	243	145	2	26.75	291	170	3	34.5	339	190	4	47.5	364	215	4	70.0	437	250	5	96.0	534	280	6				
14.0	189	108	2	20.5	243	145	2	27.0	291	170	3	35.0	339	190	4	48.0	369	220	4	71.0	437	250	5	97.0	534	280	6				
14.25	212	114	2	20.75	243	145	2	27.25	291	170	3	35.5	339	190	4	48.5	369	220	4	72.0	442	255	5	98.0	534	280	6				
14.5	212	114	2	21.0	243	145	2	27.5	291	170	3	36.0	344	195	4	49.0	369	220	4	73.0	442	255	5	99.0	534	280	6				
14.75	212	114	2	21.25	248	150	2	27.75	291	170	3	36.5	344	195	4	49.5	369	220	4	74.0	442	255	5	100.0	534	280	6				
15.0	212	114	2	21.5	243	145	2	28.0	291	170	3	37.0	344	195	4	50.0	369	220	4	75.0	442	255	5								

EXTRA LONG DRILL

12" GENERAL PURPOSE

SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)	SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)
1/8	.1250	9	12	3/8	.3750	9	12
5/32	.1562	9	12	13/32	.4062	9	12
3/16	.1875	9	12	7/16	.4375	9	12
7/32	.2188	9	12	15/32	.4688	9	12
1/4	.2500	9	12	1/2	.5000	9	12
9/32	.2812	9	12	17/32	.5312	9	12
5/16	.3125	9	12	9/16	.5625	9	12
11/32	.3438	9	12	5/8	.6250	9	12

18" GENERAL PURPOSE

SIZE	DECIMAL EQUIVALENT	L2 (INCH)	L1 (INCH)
1/4	.2500	13	18
5/16	.3125	13	18
3/8	.3750	13	18
7/16	.4375	13	18
1/2	.5000	13	18
9/16	.5625	13	18
5/8	.6250	13	18

THAT'S
GOLDEN
RATIO
TIP



ELECTRIC HAMMER DRILL



SDS PLUS



DIA (MM)	LENGTH (MM)	DIA (MM)	LENGTH (MM)	DIA (MM)	LENGTH (MM)	DIA (MM)	LENGTH (MM)	DIA (MM)	LENGTH (MM)	DIA (MM)	LENGTH (MM)	DIA (MM)	LENGTH (MM)	DIA (MM)	LENGTH (MM)	DIA (MM)	LENGTH (MM)
6	110	8	210	10	310	12	260	14	210	14	800	16	600	22	800	28	600
6	160	8	260	10	350	12	310	14	260	16	210	16	800	22	1000	28	800
6	210	8	310	10	400	12	350	14	310	16	260	16	1000	25	450	28	1000
6	260	10	110	10	450	12	400	14	350	16	310	22	260	25	600	30	450
6	310	10	160	10	600	12	450	14	400	16	350	22	350	25	800	30	600
8	110	10	210	12	160	12	600	14	450	16	400	22	450	25	1000	30	800
8	160	10	260	12	210	12	800	14	600	16	450	22	600	28	450	30	1000

SDS MAX



DIA (MM)	LENGTH (MM)	DIA (MM)	LENGTH (MM)	DIA (MM)	LENGTH (MM)	DIA (MM)	LENGTH (MM)
12	500	18	500	25	500	30	500
14	500	20	500	26	500	32	500
16	500	22	500	28	500	35	500

CHISEL



SDS PLUS

DIA (MM)	LENGTH (MM)	HEAD
14	250	POINT
14	250	20MM
14	250	30MM
14	250	40MM
14	250	GOUGE

SDS MAX

DIA (MM)	LENGTH (MM)	HEAD
18	400,500	POINT
18	400,500	20MM
18	400,500	30MM
18	400,500	40MM

HOLLOW CORE



DIA (MM)	TIPS	DIA (MM)	TIPS	DIA (MM)	TIPS
30	4	60	7	90	11
35	4	65	8	95	11
40	5	70	9	100	12
45	5	75	9	110	12
50	6	80	10	115	12
55	6	85	11	120	13

MASONRY DRILL BIT



1 MILLED

	High-helix Zinc plated
	High-helix Nickel plated
	High-helix Chrome plated
	Parabola flute

2 MILLED

	Black&white tempered body
	Nickle plated double flute
	Multifunction Tip

DIN 8039

DIA (MM)	L1	L2	DIA (MM)	L1	L2	DIA (MM)	L1	L2	DIA (MM)	L1	L2
3	60	35	7	100	54	12	150	90	20	160	100
4	75	39	8	120	80	14	150	90	22	160	100
5	85	39	9	120	80	16	150	90	24	160	100
6	100	54	10	120	80	18	160	100	25	160	100

EXTRA LONG LENGTH

L1	L2	L1	L2
150	85	400	350
200	135	600	550
300	250		

WOOD DRILL BIT



WOOD WORKING DRILL BIT

DIA (MM)	L1	L2	DIA (MM)	L1	L2
3	60	32	8	115	71
4	75	43	9	115	71
5	85	51	10	120	82
6	92	54	12	140	90
7	100	60	14	150	95



AUGER DRILL BIT



DIA (MM)	OVERALL LENGTH	DIA (MM)	OVERALL LENGTH	DIA (MM)	OVERALL LENGTH
6	100,150,200,230,300,400,460,600,1200	18	100,150,200,230,300,400,460,600,1200	30	100,150,200,230,300,400,460,600,1200
8	100,150,200,230,300,400,460,600,1200	20	100,150,200,230,300,400,460,600,1200	32	100,150,200,230,300,400,460,600,1200
10	100,150,200,230,300,400,460,600,1200	22	100,150,200,230,300,400,460,600,1200	34	100,150,200,230,300,400,460,600,1200
12	100,150,200,230,300,400,460,600,1200	24	100,150,200,230,300,400,460,600,1200	36	100,150,200,230,300,400,460,600,1200
14	100,150,200,230,300,400,460,600,1200	26	100,150,200,230,300,400,460,600,1200	38	100,150,200,230,300,400,460,600,1200
16	100,150,200,230,300,400,460,600,1200	28	100,150,200,230,300,400,460,600,1200	40	100,150,200,230,300,400,460,600,1200

WOOD SPADE DRILL BIT

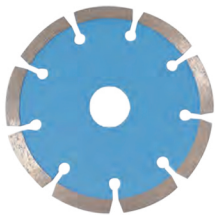


DIA (MM)	INCH	OVERALL LENGTH	DIA (MM)	INCH	OVERALL LENGTH	DIA (MM)	INCH	OVERALL LENGTH	DIA (MM)	INCH	OVERALL LENGTH
6		152,300,400	16		152,300,400	25		152,300,400	35		152,300,400
8		152,300,400	18		152,300,400	28		152,300,400	36		152,300,400
10		152,300,400	20		152,300,400	30		152,300,400	38		152,300,400
12		152,300,400	22		152,300,400	32		152,300,400	40		152,300,400
14		152,300,400	24		152,300,400	34		152,300,400			

SINTERED DIAMOND BLADE



SEGMENT



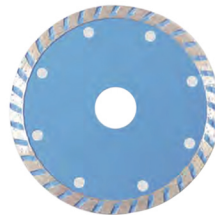
DIAMETER (MM)	SEGMENT SIZE (MM)	SEGMENT NO.
105	32X1.8X7/10	8
110	32X1.8X7/10	9
115	32X1.8X7/10	9
125	32X2.0X7/10	10
150	33X2.2X7/10	12
180	36X2.4X7/10	13
200	40X2.4X7/10	13
230	38X2.6X7/10	18
250	38X2.6X7/10	18
300	40X3.0X7/10	22
350	40X3.2X7/10	24

CONTINUOUS RIM



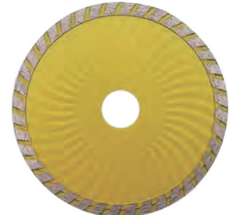
DIAMETER (MM)	SEGMENT SIZE (MM)
105	1.8X7/10
110	1.8X7/10
115	1.8X7/10
125	2.0X7/10
150	2.2X7/10
180	2.4X7/10
200	2.4X7/10
230	2.6X7/10
250	2.6X7/10
300	3.0X7/10
350	3.2X7/10

TURBO



DIAMETER (MM)	SEGMENT SIZE (MM)
105	2.0X8/10
110	2.0X8/10
115	2.0X8/10
125	2.0X8/10
150	2.2X8/10
180	2.6X8/10
200	2.6X8/10
230	3.0X8/10
250	2.8X8/10
300	3.2X8/10
350	3.4X8/10

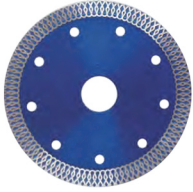
TURBO WAVE



DIAMETER (MM)	SEGMENT SIZE (MM)
105	2.0X8/10
110	2.0X8/10
115	2.0X8/10
125	2.0X8/10
150	2.2X8/10
180	2.6X8/10
200	2.6X8/10
230	2.8X8/10
250	3.0X8/10
300	3.2X8/10
350	3.4X8/10

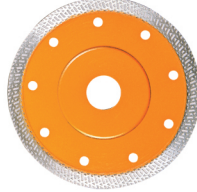
HOT PRESSED DIAMOND BLADE

"Y" THIN TURBO



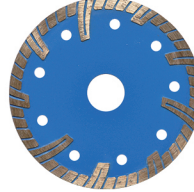
DIAMETER (MM)	SEGMENT SIZE (MM)
105	1.2X10
115	1.3X10
125	1.3X10
150	1.6X10
180	1.6X10
230	2.2X10

"K" THIN TURBO



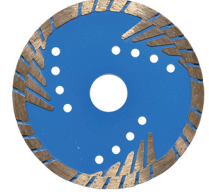
DIAMETER (MM)	SEGMENT SIZE (MM)
105	1.2X10
115	1.3X10
125	1.3X10
150	1.6X10
180	1.6X10
230	2.2X10

"T" TURBO



DIAMETER (MM)	SEGMENT SIZE (MM)
105	2.0X8
115	2.0X8
125	2.0X8
150	2.2X8
180	2.6X8
230	2.8X8

TRIANGLE TURBO



DIAMETER (MM)	SEGMENT SIZE (MM)
115	2.0X8
125	2.2X8
180	2.4X8
230	2.6X8

DIAMOND CUP WHEEL

SINGLE ROW DIAMOND CUP WHEEL



DIAMETER (MM)	SEGMENT SIZE (MM)	SEGMENT NO.
100	30X5.0X7.2	8
105	30X5.0X7.2	8
110	31X5.0X7.2	8
115	32X5.0X7.2	9
125	30X5.0X7.2	10
150	30X5.0X7.2	12
180	32X5.0X7.2	13
230	30X5.0X7.2	18

DOUBLE ROW DIAMOND CUP WHEEL



DIAMETER (MM)	SEGMENT SIZE (MM)	SEGMENT NO.
100	30X5.0X7.2	12
105	30X5.0X7.2	12
110	30X5.0X7.2	12
115	30X5.0X7.2	18
125	30X5.0X7.2	20
150	30X5.0X7.2	24
180	30X5.0X7.2	24
230	30X5.0X7.2	24

TURBO DIAMOND CUP WHEEL



DIAMETER (MM)	SEGMENT SIZE (MM)
100	4.5X20
105	4.5X20
110	4.5X20
115	4.5X20
125	4.5X20
150	4.5X20
180	4.5X20
230	4.5X20

VACUUM BRAZED DIAMOND TOOLS

KEY SLOT BRAZED DIAMOND BLADE



DIAMETER (MM)	SEGMENT SIZE (MM)	SEGMENT NO.
105	32X1.8X5	8
110	32X1.8X5	8
115	32X1.8X5	9
125	32X2.0X5	10
150	33X2.2X5	12
180	36X2.4X5	13
230	38X2.6X5	18

U SLOT BRAZED DIAMOND BLADE



DIAMETER (MM)	SEGMENT SIZE (MM)	SEGMENT NO.
105	32X1.8X5	8
110	32X1.8X5	8
115	32X1.8X5	9
125	32X2.0X5	10
150	33X2.2X5	12
180	36X2.4X5	13
230	38X2.6X5	18

VACUUM BRAZED DIAMOND CORE DRILL

DIAMETER (MM)	ENGLH (MM)	CONNECTION	SEGMENT DIMENSIONS	DIAMETER (MM)	ENGLH (MM)	CONNECTION	SEGMENT DIMENSIONS
5	65	13MM/HEX/M14	3.0X10MM	4	65	M14	3.0X10MM
6	65	13MM/HEX/M14	3.0X10MM	50	65	M14	3.0X10MM
7	65	13MM/HEX/M14	3.0X10MM	52	65	M14	3.0X10MM
8	65	13MM/HEX/M14	3.0X10MM	55	65	M14	3.0X10MM
10	65	13MM/HEX/M14	3.0X10MM	57	65	M14	3.0X10MM
12	65	13MM/HEX/M14	3.0X10MM	60	65	M14	3.0X10MM
14	65	13MM/HEX/M14	3.0X10MM	65	65	M14	3.0X10MM
16	65	13MM/HEX/M14	3.0X10MM	67	65	M14	3.0X10MM
18	65	M14	3.0X10MM	70	65	M14	3.0X10MM
20	65	M14	3.0X10MM	75	65	M14	3.0X10MM
22	65	M14	3.0X10MM	80	65	M14	3.0X10MM
25	65	M14	3.0X10MM	83	65	M14	3.0X10MM
27	65	M14	3.0X10MM	85	65	M14	3.0X10MM
28	65	M14	3.0X10MM	90	65	M14	3.0X10MM
30	65	M14	3.0X10MM	95	65	M14	3.0X10MM
32	65	M14	3.0X10MM	100	65	M14	3.0X10MM
35	65	M14	3.0X10MM	115	65	M14	3.0X10MM
38	65	M14	3.0X10MM	120	65	M14	3.0X10MM
40	65	M14	3.0X10MM	128	65	M14	3.0X10MM
43	65	M14	3.0X10MM				



TCT SAW BLADE

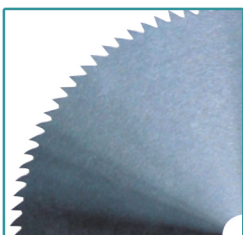


FOR WOOD CUTTING



DIAMETER (INCH)	DIAMETER (MM)	TEETH NUMBER	DIAMETER (INCH)	DIAMETER (MM)	TEETH NUMBER	DIAMETER (INCH)	DIAMETER (MM)	TEETH NUMBER
4	110	12-40	12	305	40-80	24	600	60-160
6	150	20-40	14	355	40-80	26	650	60-160
7	180	24-40	16	405	40-160	29.5	700	40-160
7.5	185	24-40	18	455	60-160			
8	200	40-60	20	505	60-160			
10	250	40-80	22	550	60-160			

FOR WOOD CUTTING



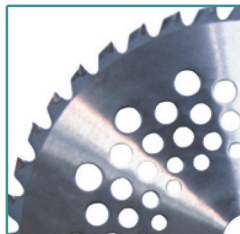
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4	100	24-40	12	300	60-100	24	600	80-160
5	125	24-40	14	350	72-120	26	650	80-160
6	150	24-60	16	400	72-140	28	700	100-200
7	180	36-80	18	450	72-140			
8	200	40-90	20	500	72-140			
10	250	50-100	22	550	80-160			

FOR PLYWOOD AND LAMINATED BOARD



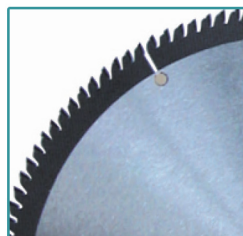
DIAMETER (INCH)	DIAMETER (MM)	TEETH NUMBER
4	110	40
5	125	40
6	150	60
8	200	60-80
10	250	60-100
12	305	60-120
14	355	72-120
16	405	84-120

FOR GRASS



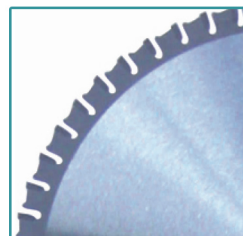
DIAMETER (INCH)	DIAMETER (MM)	TEETH NUMBER
9	230	36-40
10	255	36-40-48
12	305	40-48-60

FOR ALUMINIUM AND PLASTIC



DIAMETER (INCH)	DIAMETER (MM)	TEETH NUMBER	DIAMETER (INCH)	DIAMETER (MM)	TEETH NUMBER	DIAMETER (INCH)	DIAMETER (MM)	TEETH NUMBER
4	110	40	14	355	96-120	26	660	120-180
5	125	40	16	405	100-120			
6	150	60	18	455	100-120			
8	200	60-80	20	500	100-140			
10	250	60-100	22	550	120-140			
12	305	80-120	24	610	120-160			

FOR METAL CUTTING



DIAMETER (INCH)	DIAMETER (MM)	TEETH NUMBER	DIAMETER (INCH)	DIAMETER (MM)	TEETH NUMBER
4	100	24	8.5	210	48-60
405	115	24-40	10	250	60-80
5	125	24-40	12	305	72-96
6.5	160	28-40	14	355	84-108
7.5	190	36-48	16	405	84-120

ABRASIVE DISC



SUPER THIN CUTTING WHEELS



SIZE(MM)	INCH
107X1.0X16	4"X1/21X5/8"
115X1.2X22	4.5"X1/21X7/8"
125X1.0X22	5"X1/21X7/8"
150X1.6X22	6"X1/16X7/8"
180X1.6X22	7"X1/16X7/8"

CUTTING WHEELS FOR STAINLESS STEEL



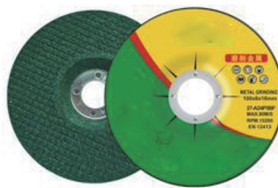
SIZE(MM)	INCH
100X2.5X16	4"X1/8X5/8"
355X2.5X254	14"X1/8X1"
400X3X25 4/32	16"X1/8X1"

DEPRESSED CENTER CUTTING WHEELS



SIZE(MM)	INCH
100X3X16	4"X1/8X5/8"
115X3X22	4.5"X1/8X7/8"
125X3X22	5"X1/8X7/8"
150X3X22	6"X1/8X7/8"
180X3X22	7"X1/8X7/8"
230X3X22	9"X1/8X7/8"

GRINDING WHEELS FOR METAL



SIZE(MM)	INCH
100X4X16	4" X4/25X5/8"
100X6X16	4"X1/4X5/8"
115X6X22	4.5"X1/4X7/8"
125X6X22	5"X1/4X7/8"
150X6X22	6"X1/4X7/8"
180X6X22	7"X1/4X7/8"
230X6X22	9"X1/4X7/8"

BROW ALUMINUM OXIDE(FIBERGLASS BACKING)



SIZE(MM)	INCH
100X16	4"X5/8"
115X22	4/5"X7/8"
125X22	5"X7/8"
150X22	6"X7/8"
180X22	7"X7/8"

DISH SHAPE FLAP DISC



SIZE(MM)	GRIT
100X45	50
100X45	80
100X45	120
100X45	240
100X45	320

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