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MASTER EVERY CUT WITH PRECISION TOOLS



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LEGACY, PERFORMANCE, INNOVATION



www.mastertechbusiness.com



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Welcome To MASTERTECH

In today's competitive manufacturing landscape, precision & economical is key to success. Our range of Carbide Tools play a crucial role in achieving the highest levels of accuracy and efficiency in machining operations. As an experienced manufacturer, we understand the critical impact these small but mighty components have on your production processes.

Our Solid Carbide tools are engineered to deliver exceptional performance, durability, and cost-effectiveness. All our tools are made with German make rods in CNC tool & Cutter grinders Like Walter, Widma & robotic 5 axis CNC grinders loaded with Tool Studio & Numroto Swiss Software.

INDUSTRIES WE CATER





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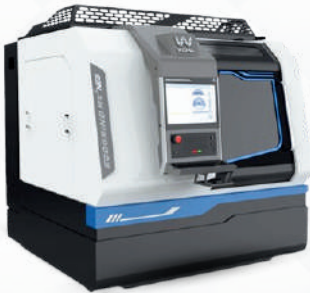
OUR **CNC GRINDERS** FOR TOOL MANUFACTURING



**WALTER - HELITRONIC
MINI POWERPOWER**



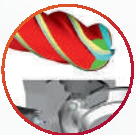
**WALTER HELITRONIC
POWER HMC 400**



**WIDMA - RX5 NEO
CNC 5 AXIS**



**HALLER - CNC GRINDER
WITH AUTO LOADER**





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CUTTING THROUGH

Challenges with Confidence





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SOLID CARBIDE HP BALL NOSE END MILLS 2FL/4FL

SERIES : MT4HBM/MT2HBM

DIA TOL : e8

Sh Tol : h6

DIA(D1)	SH.DIA(D2)	CEL(L2)	OAL(L1)
3	3	10	38
4	4	14	50
4.5	5	14	50
5	5	16	50
6	6	19	60
7	8	19	60
8	8	21	60
9	10	22	70
10	10	25	70
11	11	25	70
12	12	30	75
14	14	30	80
16	16	32	80
18	18	35	100
20	20	38	100
22	22	38	100
25	25	40	100



MASTERTECH SOLID CARBIDE HP BALL NOSE END MILLS 2FL/4FL (MOLD USE)

DIA(D1)	SH.DIA(D2)	CEL(L2)	OAL(L1)
3.00	6.00	6	75
4.00	6.00	8	75
5.00	6.00	10	100
6.00	6.00	12	100
8.00	8.00	16	100
10.00	10.00	20	105
10.00	10.00	20	120
10.00	10.00	20	150
12.00	12.00	24	100
12.00	12.00	24	120
12.00	12.00	24	150





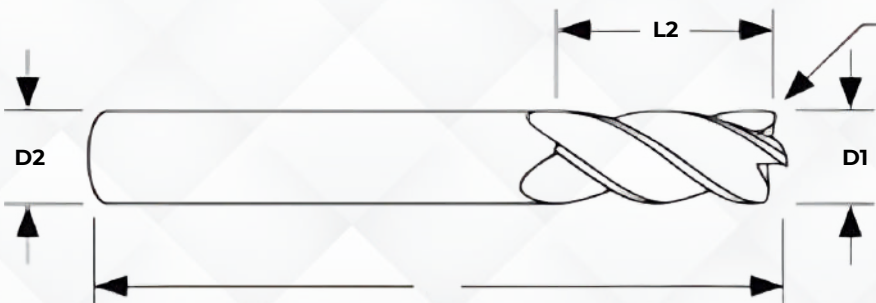
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SOLID CARBIDE HP END MILLS 4FL

AVAILABLE IN ALCRONA/ALTISIN/NACO



CODE : MT4UMC		DIA tol : e8		Sh Tol : h6	
DIA(D1)	SH.DIA(D2)	CEL(L2)	OAL(L1)		
3	3	10	38		
4	4	14	50		
4.5	5	14	50		
5	5	16	50		
6	6	19	60		
7	8	19	60		
8	8	21	60		
9	10	22	70		
10	10	25	70		
11	11	25	70		
12	12	30	75		
14	14	30	80		
16	16	32	80		
18	18	35	100		
20	20	38	100		
22	22	38	100		
25	25	40	100		





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SOLID CARBIDE HP END MILLS 6FL

SERIES : MT6UMS

D mill dia.	lc length of cut	no. of flutes	d shank dia.	L overall length
3.0	10	4	4	50
4.0	14	4	6	50
5.0	16	4	6	50
6.0	19	6	6	60
8.0	21	6	8	64
10	25	6	10	70
12	25	6	12	75
14	30	6	14	80
16	35	6	16	80
18	35	6	18	100
20	38	6	20	100
22	38	6	22	100



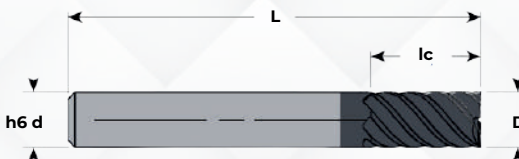
SERIES MT6UML

MULTI HELIX FINISHING LONG END MILL

D mill dia.	lc length of cut	no. of flutes	d shank dia.	L overall length
6.0	26	6	6	100
8.0	36	6	8	100
10	46	6	10	100
12	56	6	12	110
16	66	6	16	130
20	76	6	20	140
25	92	6	25	180

Dia tol : e8

Sh.Dia Tol:h6



**SOLID CARBIDE GENERAL PURPOSE VARIABLE HELIX END MILLS
SUITABLE FOR MACHINING UPTO 50 HRC/SUPER ALLOY**

Roughing and finishing in one end mill
Chatter free Machining
Good Surface Finish.
Chamfer improves tool life.

Side Milling Slotting Ramping Helical Plunging Helical Plunging Interpolation



SERIES:MTVH4

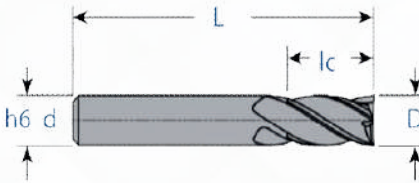


DIA	SH.DIA	CEL	OAL
3	3	10	38
4	4	14	50
4.5	5	14	50
5	5	16	50
6	6	19	60
7	8	19	60
8	8	21	60
9	10	22	70
10	10	25	70
11	11	25	70
12	12	30	75
14	14	30	80
16	16	32	80
18	18	35	100
20	20	38	100
22	22	38	100
25	25	40	100



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ECO SERIES END MILL GENERAL PURPOSE



SERIES : MT4ECOS

DIA	CEL	SH DIA	O.A.L
1	3	10	38
1.5	4	14	38
2	6	14	38
3	8	16	38
3	10	19	38
4	11	19	50
5	12	21	50
6	15	22	50
7	20	25	60
8	20	25	60
10	25	30	70
12	30	30	75
14	31	32	81
16	32	35	89
18	42	38	100
20	45	38	100

SERIES : MT4ECOBN

DIA	CEL	SH DIA	O.A.L
1	2	3	38
1.5	3	3	38
2	5	3	38
3	8	3	38
3	8	3	38
4	10	4	50
5	11	5	50
6	14	6	50
7	15	8	60
8	18	8	60
10	20	10	70
12	25	12	75
14	30	14	81
16	32	16	89
18	40	18	100
20	40	20	100





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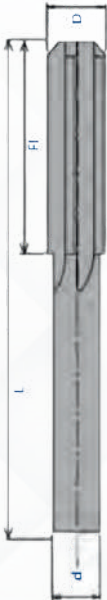
SOLID CARBIDE REAMER

3/4 & 6FL FLUTE REAMER

AVAILABLE COATED/UNCOATED

DIA TOL; H7

D	Fl flute length	d shank dia.	L
1.6	10	1.32	38
1.7	12	1.59	44
1.8	12	1.59	44
1.9	12	1.59	44
2.0	12	1.59	44
2.1	12	1.98	50
2.2	12	1.98	50
2.3	12	1.98	50
2.4	12	1.98	50
2.7	16	2.38	57
3.0	16	2.78	57
3.2	16	2.78	57
3.6	19	3.57	64
3.9	19	3.57	64
4.1	22	3.97	64
4.4	22	3.97	70
4.9	22	4.76	70
5.1	25	4.76	76
5.2	25	4.76	76
5.3	25	4.76	76
5.4	25	4.76	76
5.5	25	4.76	76
5.6	25	4.76	76
5.7	25	5.56	76
5.8	25	5.56	76
5.9	25	5.56	76
6.0	25	5.56	76
6.1	25	5.56	76
6.2	25	5.56	76
6.3	25	5.56	76
6.4	29	6.35	83
6.5	29	6.35	83
6.6	29	6.35	83





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SOLID CARBIDE REAMER

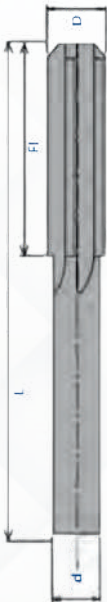
D	Fl flute length	d shank dia.	L
6.7	2.9	6.35	83
6.8	29	6.35	83
6.9	29	6.35	83
7.0	29	6.35	83
7.1	29	6.35	83
7.2	29	6.35	83
7.3	29	7.14	83
7.4	29	7.14	83
7.5	29	7.14	83
7.6	29	7.14	83
7.7	29	7.14	83
7.8	29	7.14	83
7.9	29	7.14	83
8.0	29	7.14	83
8.1	32	7.94	89
8.2	32	7.94	89
8.3	32	7.94	89
8.4	32	7.94	89
8.5	32	7.94	89
8.6	32	7.94	89
8.7	32	7.94	89
8.8	32	7.94	89
8.9	32	7.94	89
9.0	32	7.94	89
9.1	32	7.94	89
9.2	32	9.13	89
9.3	32	9.13	89
9.4	32	9.13	89
9.5	32	9.13	89
9.6	32	9.13	89
9.7	32	9.13	89
9.8	32	9.13	89
9.9	32	9.53	89
10.0	32	9.53	89
10.1	32	9.53	89





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SOLID CARBIDE REAMER



D	Fl flute length	d shank dia.	L
10.2	32	9.53	89
10.3	32	9.53	89
10.4	32	9.53	89
10.5	32	9.53	89
10.6	35	9.53	95
10.7	35	9.53	95
10.8	35	9.53	95
10.9	35	9.53	95
11.0	35	10.53	95
11.1	35	10.53	95
11.2	35	10.53	95
11.3	35	9.53	95
11.4	35	9.53	95
11.5	35	11.11	95
11.6	35	11.11	95
11.7	35	11.11	95
11.8	35	11.11	95
11.9	35	11.11	95
12.0	38	11.11	102
12.1	38	11.55	102
12.2	38	11.55	102
12.3	38	11.55	102
12.4	38	11.55	102
12.5	38	11.55	102
12.6	38	11.95	102
12.7	38	11.95	102
12.8	38	11.95	102
12.9	38	11.95	102
13.0	38	11.95	102



ROUGHING END MILLS

4 Flute - Rough Style - 30° Helix



SERIES : MT4RF

Dmill dia.	lc length of cut	d shank dia.	L overall length
3.0	10	4	64
4.0	14	4	64
5.0	15	6	64
6.0	19	6	64
8.0	21	8	64
10.0	25	10	70
12.0	25	12	75
16.0	32	16	80
20.0	38	20	100
25.0	38	25	100





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2/4FL Corner Radius End Mill

SERIES : MT2CR/MT4CR



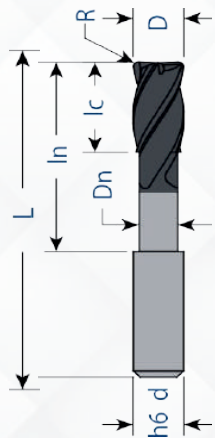
D	R	lc	d	L
mill dia.	corner radius	length of cut	shank dia.	overall length
3.0	0.2	8	6	60
3.0	0.5	8	6	60
4.0	0.2	11	6	70
4.0	0.5	11	6	70
4.0	1.0	11	6	70
5.0	0.2	13	6	80
5.0	0.5	13	6	80
5.0	1.0	13	6	80
6.0	0.2	13	6	80
6.0	0.5	13	6	80
6.0	1.0	13	6	80
6.0	1.5	13	6	80
6.0	2.0	13	6	80
8.0	0.5	19	8	100
8.0	1.0	19	8	100
8.0	1.5	19	8	100
8.0	2.0	19	8	100
10	0.5	22	10	100
10	1.0	22	10	100
10	1.5	22	10	100
10	2.0	22	22	100
10	3.0	22	10	100
12	0.5	26	12	110
12	1.0	26	12	110
12	1.5	26	12	110
12	2.0	26	12	110
12	3.0	26	12	110



4 Flute - Corner Radius - Necked Design

SERIES : MTND2CR/MT4NDCR

Dmill dia.	Rcorner radius	lc length of cut	In reach length	Dn neck dia.	d shank dia.	Overall length
3.0	0.2	4.5	14	2.8	6	60
3.0	0.5	4.5	14	2.8	6	60
4.0	0.2	6.0	25	3.7	6	70
4.0	0.5	6.0	25	3.7	6	70
4.0	1.0	6.0	25	3.7	6	70
5.0	0.2	7.5	30	4.6	6	80
5.0	0.5	7.5	30	4.6	6	80
5.0	1.0	7.5	30	4.6	6	80
6.0	0.2	9.0	35	5.5	6	80
6.0	0.5	9.0	35	5.5	6	80
6.0	1.0	9.0	35	5.5	6	80
6.0	1.5	9.0	35	5.5	6	80
6.0	2.0	9.0	35	5.5	6	80
8.0	0.5	12	40	7.4	8	100
8.0	1.0	12	40	7.4	8	100
8.0	1.5	12	40	7.4	8	100
8.0	2.0	12	40	7.4	8	100
10	0.5	15	45	9.2	10	100
10	1.0	15	45	9.2	10	100
10	1.5	15	45	9.2	10	100
10	2.0	15	45	9.2	10	100
10	3.0	15	45	9.2	10	100
12	0.5	18	50	11	12	110
12	1.0	18	50	11	12	110
12	1.5	18	50	11	12	110
12	2.0	18	50	11	12	110
12	3.0	18	50	11	12	110



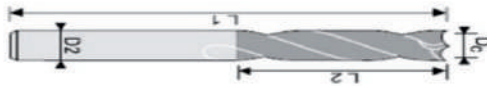


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SC UNCOATED END MILL HIGH HELIX FOR ALUMINIUM				
SERIES :MT2QS/MT3QS/MTB2QS/MTB3QS				
DIA(D)	CEL(lc)	SH DIA(d)	OAL(L)	Z =NO OF FL
1	3	3	39	2
1.5	4.5	3	39	2
2	6	3	39	2
2.5	7.5	3	39	2/3
3	9	4	50	
3.5	10	4	50	
4	12	4	50	
5	14	5	50	
6	16	6	50	
8	22	8	60	
10	30	10	75	
12	35	12	75	
14	32	14	80	
16	32	16	80	
18	45	18	100	
20	45	20	100	
SERIES :MT2QX/MT3QX/MTB2QX/MTB3QX				
DIA	CEL	SH DIA	OAL	Z =NO OF FL
4	16	4	75	2/3
4	20	4	100	
6	25	6	75	
6	35	6	100	
8	35	8	75	
8	40	8	100	
10	40	10	100	
12	45	12	100	
6	45	6	150	
8	50	8	150	
10	60	10	150	
12	60	12	150	
14	70	14	150	
16	70	16	150	
20	70	20	150	

KEVLAR DRILLS FOR AEROSPACE



SERIES : MTKDR

Diam mm/ (in)	L1 mm	L2 mm
3.00	40	12
3.17 (1/8")	40	12
4.00	55	18
4.76	58	24
5.00	62	26
5.55 (7/32")	66	28
6.00	66	28
6.35 (1/4")	70	31
6.50	70	31
7.00	74	34
7.93 (5/19")	79	37
8.00	78	37



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SOLID CARBIDE 3 FL DRILLS

SERIES : MTA3DR



DIA	SH.DIA	FL	OAL
3	3	33	61
3.1	3.1	36	65
3.2	3.2	36	65
3.3	3.3	36	65
3.4	3.4	39	70
3.5	3.5	39	70
3.6	3.6	39	70
3.7	3.7	39	70
3.8	3.8	43	75
3.9	3.9	43	75
4	4	43	75
4.1	4.1	43	75
4.2	4.2	43	75
4.3	4.3	47	80
4.4	4.4	47	80
4.5	4.5	47	80
4.6	4.6	47	80
4.7	4.7	47	80
4.8	4.8	52	86
4.9	4.9	52	86
5	5	52	86
5.1	5.1	52	86
5.2	5.2	52	86
5.3	5.3	52	86
5.4	5.4	57	93
5.5	5.5	57	93
5.6	5.6	57	93
5.7	5.7	57	93
5.8	5.8	57	93
5.9	5.9	57	93
6	6	57	93



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SOLID CARBIDE 3 FL DRILLS

SERIES : MTA3DR

DIA	SH.DIA	FL	OAL
6.1	6.1	63	101
6.2	6.2	63	101
6.3	6.3	63	101
6.4	6.4	63	101
6.5	6.5	63	101
6.6	6.6	63	101
6.7	6.7	63	101
6.8	6.8	69	109
6.9	6.9	69	109
7	7	69	109
7.1	7.1	69	109
7.2	7.2	69	109
7.3	7.3	69	109
7.4	7.4	69	109
7.5	7.5	69	109
7.6	7.6	75	117
7.7	7.7	75	117
7.8	7.8	75	117
7.9	7.9	75	117
8	8	75	117
8.1	8.1	75	117
8.2	8.2	75	117
8.3	8.3	75	117
8.4	8.4	75	117
8.5	8.5	75	117
8.6	8.6	81	125
8.7	8.7	81	125
8.8	8.8	81	125
8.9	8.9	81	125
9	9	81	125
9.1	9.1	81	125
9.2	9.2	81	125





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SOLID CARBIDE 3 FL DRILLS

SERIES : MTA3DR



DIA	SH.DIA	FL	OAL
9.3	9.3	81	125
9.4	9.4	81	125
9.5	9.5	81	125
9.6	9.6	87	133
9.7	9.7	87	133
9.8	9.8	87	133
9.9	9.9	87	133
10	10	87	133
10.2	10.2	87	133
10.3	10.3	87	133
10.4	10.4	87	133
10.5	10.5	87	133
10.6	10.6	87	133
10.7	10.7	94	142
10.8	10.8	94	142
11	11	94	142
11.1	11.1	94	142
11.2	11.2	94	142
11.3	11.3	94	142
11.4	11.4	94	142
11.5	11.5	94	142
11.6	11.6	94	142
11.7	11.7	94	142
11.8	11.8	94	142
11.9	11.9	101	151
12	12	101	151
12.1	12.1	101	151
12.2	12.2	101	151
12.3	12.3	101	151
12.4	12.4	101	151
12.5	12.5	101	151
12.6	12.6	101	151
12.7	12.7	101	151



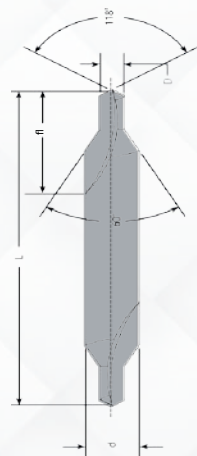
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SOLID CARBIDE CENTER DRILLS

SOLID CARBIDE CENTRE DRILLS				
SERIES : MTCDA		AS PER DIN 33A		
TYPE A				
	PILOT DIA	BODY DIA	PL	OAL
	1	3.15	1.6	31.5
	1.25	3.15	1.9	31.5
	1.6	4	2.4	35.5
	2	5	2.9	40
	2.5	6.3	3.6	45
	3.15	8	4.4	50
	4	10	5.6	56
	5	12.5	6.9	63
	6.3	16	8.6	71
	8	20	10.1	80



SOLID CARBIDE CENTRE DRILLS				
SERIES : MTCDBS		AS BS 328/PART 2		
BS STD	PILOT DIA	BODY DIA	PL	OAL
1	3/64	1/8	1/16	1.1/2
2	1/16	3/16	5/64	1.3/4
3	3/32	1/4	1/8	2
4	1/8	5/16	5/32	2.1/4
5	3/16	7/16	1/4	2.1/2
6	1/4	5/8	5/16	3
7	5/16	3/4	13/32	3.1/2

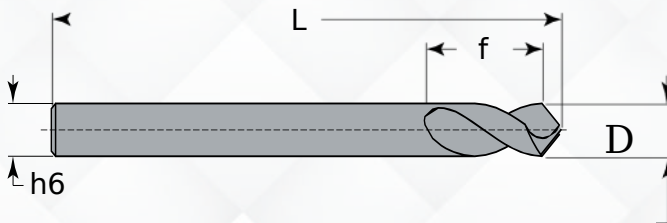


CARBIDE SPOTTING DRILL



Available at 90 DEG /120 deg including angle

SERIES : MTSPDR			
D	flute	SH DIA	OAL
cutting	FL	d	l
4.0	10	4	51
6.0	16	6	51
8.0	23	8	64
10	24	10	70
12	25	12	70





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SOLID CARBIDE SIDE WALL FINISH END MILL

SERIES : MT6UMS

Dmill dia.	lc length of cut	no. offlutes	d shank dia.	Overall length
3.0	10	4	4	50
4.0	14	4	4	50
5.0	16	4	4	50
6.0	19	6	6	64
8.0	21	6	8	64
10	25	6	10	64
12	25	6	12	76
14	30	6	14	89
16	35	6	16	89
18	35	6	18	102
20	38	6	20	102
22	38	6	22	102



Multiple Flute - Standard Length





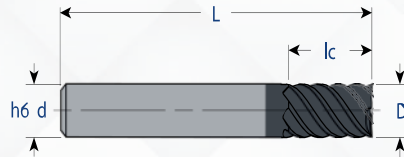
SOLID CARBIDE SIDE WALL FINISH END MILL

SERIES : MT6UML

Dmill dia.	lc length of cut	no. offlutes	d shank dia.	Overall length
6.0	26	6	6	100
8.0	36	6	8	100
10	46	6	10	100
12	56	6	12	110
16	66	6	16	130
20	76	6	20	150
25	92	8	25	164



Multiple Flute - Standard Length



Size
up to 3mm
over 3mm

(D) cutting dia.
+.000mm-.025mm
+.000mm-.038mm

(d) h6 Tol. shank dia.
+.000mm-.006mm
+.000mm-.008mm

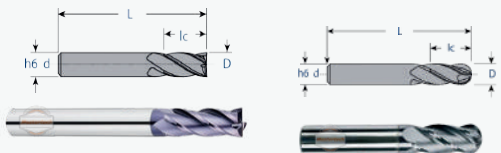
SOLID CARBIDE GENERAL PURPOSE ENDMILL SUITABLE FOR MACHINING UPTO 45HRC

AVAILABLE IN TIALN / ALTISIN COATING.

DIA TOL : e8

2FL/4FL SQ END ENDMILL			
DIA	SH.DIA	CEL	OAL
1	3	3	39
1.5	3	5	39
2	3	7	39
2.5	3	8	39
3	3	10	39
4	4	14	50
4.5	5	14	50
5	5	16	50
6	6	19	50
6	6	19	64
7	8	19	64
8	8	21	64
9	10	22	70
10	10	25	70
11	11	25	70
12	12	25	75
14	14	30	80
14	14	30	89
16	16	30	80
16	16	32	89
18	18	35	100
20	20	38	100
22	22	38	100
25	25	38	100

STD 2FL/4FL BALL NOSE END MILL			
DIA	SH.DIA	CEL	OAL
1	3	3	39
1.5	3	5	39
2	3	7	39
2.5	3	8	39
3	3	10	39
4	4	14	50
4.5	5	14	50
5	5	16	50
6	6	16	50
6	6	19	64
8	8	21	64
10	10	25	70
12	12	25	75
14	14	30	89
16	16	32	89
18	18	35	100
20	20	38	100
22	22	38	100
25	25	38	100

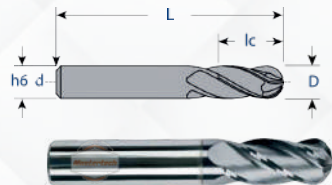
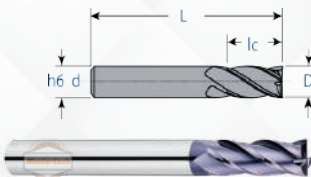


2FL/4FL LONG END MILL			
SERIES:SERIES:MT2FEMLC/MT4FEMLC			
DIA	SH.DIA	CEL	OAL
3	3	19	57
4	4	19	57
5	5	25	64
6	6	28	76
8	8	29	76
10	10	32	76
12	12	51	102
16	16	57	127
20	20	57	127

2FL/4FL EX LONG END MILLS			
SERIES:SERIES:MT2FEMXC/MT4FEMXC			
DIA	SH.DIA	CEL	OAL
3	3	25	75
4	4	28	75
5	5	32	75
6	6	39	100
8	8	42	100
10	10	45	100
12	12	76	150
14	14	76	150
16	16	76	150
18	18	76	150
20	20	76	150
22	22	76	150
25	25	76	150

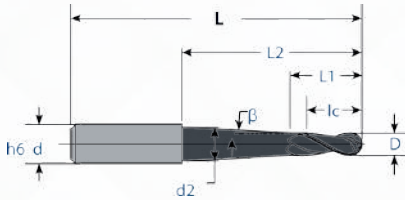
2FL/4FL BALL NOSE LONG END MILL			
SERIES:MT2BNMLC/MT4BNMLC			
DIA	SH.DIA	CEL	OAL
3	3	19	57
4	4	19	57
5	5	25	64
6	6	28	76
8	8	29	76
10	10	32	76
12	12	51	102
16	16	57	127
20	20	57	127

2FL/4FL BALL NOSE EX LONG END MILLS			
SERIES:MT2BNXC/MT4BNXC			
DIA	SH.DIA	CEL	OAL
3	3	25	75
4	4	28	75
5	5	32	75
6	6	39	100
8	8	42	100
10	10	45	100
12	12	76	150
14	14	76	150
16	16	76	150
18	18	76	150
20	20	76	150
22	22	76	150
25	25	76	150





2FL TAPER NECK HIGH PERFORMANCE BALL NOSE END MILLS GENERAL PURPOSE



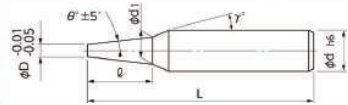
SERIES: MTT2BN

Dmill dia.	lc length of cut	L2 non-taper neck length.	L1neck length	d2max. neck dia.	β neck incline	d shank dia.	Looverall length
1.0	2.5	4.0	20	3.8	5°	6	60
1.0	2.5	4.0	40	4.8	3°	6	80
1.0	2.5	4.0	20	ta	1.5°	6	70
2.0	5.0	7.0	20	4.3	5°	6	60
2.0	5.0	7.0	40	5.5	3°	6	80
2.0	5.0	7.0	20	2.7	1.5°	6	70
3.0	8.0	10.5	30	5.0	3°	6	70
3.0	8.0	10.5	50	5.1	1.5°	6	90
4.0	8.0	10.5	28	6.0	3°	6	70
4.0	8.0	10.5	48	6.0	1.5°	6	90
5.0	10	12.5	40	8.0	3°	8	90
5.0	10	12.5	60	7.5	1.5°	8	110
6.0	12	14.5	33.5	8.0	3°	8	90
6.0	12	14.5	52	8.0	1.5°	8	110
8.0	14	16.5	54.5	10	1.5°	10	120
10	18	20.5	39.5	12	3°	12	110
10	18	20.5	58.5	12	1.5°	12	130
12	22	25	60	16	3°	16	140
12	22	25	80	14.9	1.5°	16	160



ISO 9001: 2015 Company

4FL TAPER SQ END END MILL FOR GENERAL PURPOSE



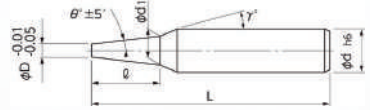
SERIES: MT4TEM

(D)Dia.	(θ)Taper Angle	(l)Length of Cut	(d1)Dia. at Large End	(γ)Neck Taper Angle	(d)Shank Dia.	(L)Overall Length
3	30'	10	3.17	9°	6	50
3	1°	10	3.35	9°	6	50
3	1°30'	10	3.52	9°	6	50
3	2°	10	3.69	9°	6	50
3	2°30'	10	3.87	9°	6	50
3	3°	10	4.05	9°	6	50
3	4°	10	4.4	9°	6	50
3	5°	10	4.75	5°	6	50
3	7°	10	5.46	7°	6	50
3	10°	10	6.53	—	6	50
3	15°	10	8.36	—	8	50
4	30'	15	4.26	9°	6	50
4	1°	15	4.52	9°	6	50
4	1°30'	15	4.79	9°	6	50
4	2°	15	5.04	9°	6	50
4	2°30'	15	5.31	2°30'	6	50
4	3°	15	5.57	3°	6	50
4	4°	15	6.1	—	6	55
4	5°	15	6.62	—	6	55
4	7°	15	7.68	—	6	55
4	10°	15	9.29	—	8	60
5	30'	20	5.34	9°	6	55
5	1°	20	5.7	9°	6	55
5	1°30'	20	6.04	—	6	55
5	2°	20	6.39	—	6	55
5	2°30'	20	6.74	—	6	55
5	3°	20	7.1	—	6	55



ISO 9001: 2015 Company

4FL TAPER SQ END END MILL FOR GENERAL PURPOSE



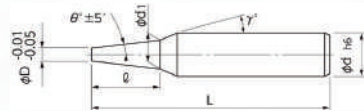
SERIES: MT4TEM

(D)Dia.	(θ)Taper Angle	(l)Length of Cut	(d1)Dia. at Large End	(y)Neck Taper Angle	(d)Shank Dia.	(L)Overall Length
5	4°	20	7.8	—	6	60
5	5°	20	8.5	—	8	60
5	7°	20	9.91	—	8	60
5	10°	20	12.05	—	12	70
6	30'	20	6.35	—	6	55
6	1°	20	6.7	—	6	55
6	1°30'	20	7.05	—	6	55
6	2°	20	7.4	—	6	55
6	2°30'	20	7.75	—	6	55
6	3°	20	8.1	—	8	60
6	4°	20	8.8	—	8	65
6	5°	20	9.5	—	8	65
6	7°	20	10.91	—	10	70
6	10°	20	13.05	—	12	80
8	30'	25	8.44	—	8	65
8	1°	25	8.87	—	8	65
8	1°30'	25	9.31	—	8	65
8	2°	25	9.74	—	8	65
8	2°30'	25	10.18	—	10	70
8	3°	25	10.62	—	10	70
8	4°	25	11.5	—	10	80
8	5°	25	12.37	—	12	90
8	7°	25	14.14	—	12	90
8	10°	25	16.81	—	16	90
10	30'	35	10.61	—	10	85
10	1°	35	11.22	—	10	85
10	1°30'	35	11.83	—	10	85
10	2°	35	12.44	—	12	90



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4FL TAPER SQ END END MILL FOR GENERAL PURPOSE



SERIES: MT4TEM

(D)Dia.	(θ)Taper Angle	(l)Length of Cut	(d1)Dia. at Large End	(γ)Neck Taper Angle	(d)Shank Dia.	(L)Overall Length
10	2°30'	35	13.06	—	12	90
10	3°	35	13.67	—	12	90
10	4°	35	14.89	—	12	90
10	5°	35	16.12	—	16	90
10	7°	35	18.59	—	16	90
10	10°	35	22.34	—	20	110
12	30'	55	12.96	—	12	110
12	1°	55	13.92	—	12	110
12	1°30'	55	14.88	—	12	110
12	2°	55	15.84	2°	16	110
12	2°30'	55	16.8	—	16	110
12	3°	55	17.76	—	16	110
12	4°	55	19.69	4°	20	110
12	5°	55	21.62	—	20	120
12	7°	55	25.51	—	25	120
12	10°	55	31.39	—	25	120
16	30'	65	17.13	—	16	130
16	1°	65	18.27	—	16	130
16	1°30'	65	19.4	—	16	130
16	2°	65	20.53	—	20	130
16	2°30'	65	21.68	—	20	130
16	3°	65	22.81	—	20	130
16	4°	65	25.09	—	25	140
16	5°	65	27.37	—	25	140
16	7°	65	31.96	7°	32	140



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GENERAL PURPOSE JOBBER DRILLS

AS PER :DIN 338

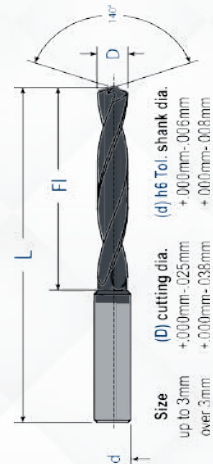
DRILL DIA TOL h7

SERIES: MTRDJ

DIA(D1)	SH.DIA	FL	OAL
1	1	12	34
1.1	1.1	14	36
1.2	1.2	16	38
1.3	1.3	16	38
1.4	1.4	18	40
1.5	1.5	18	40
1.6	1.6	20	43
1.7	1.7	20	43
1.8	1.8	22	46
1.9	1.9	22	46
2	2	24	49
2.1	2.1	24	49
2.2	2.2	27	53
2.3	2.3	27	53
2.4	2.4	30	57
2.5	2.5	30	57
2.6	2.6	30	57
2.7	2.7	33	61
2.8	2.8	33	61
2.9	2.9	33	61
3	3	33	61
3.1	3.1	36	65
3.2	3.2	36	65
3.3	3.3	36	65
3.4	3.4	39	70
3.5	3.5	39	70
3.6	3.6	39	70
3.7	3.7	39	70
3.8	3.8	43	75
3.9	3.9	43	75
4	4	43	75



Available in Uncoated / TiAlN/Tin Coating

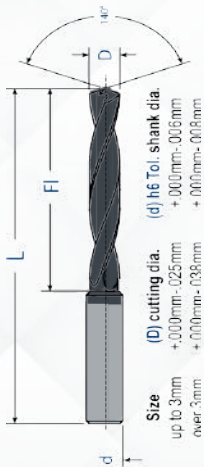




ISO 9001: 2015 Company



Available in Uncoated / TiAlN/Tin Coating



GENERAL PURPOSE JOBBER DRILLS

AS PER :DIN 338

DRILL DIA TOL h7

SERIES: MTD RJ

DIA(D1)	SH.DIA	FL	OAL
4.1	4.1	43	75
4.2	4.2	43	75
4.3	4.3	47	80
4.4	4.4	47	80
4.5	4.5	47	80
4.6	4.6	47	80
4.7	4.7	47	80
4.8	4.8	52	86
4.9	4.9	52	86
5	5	52	86
5.1	5.1	52	86
5.2	5.2	52	86
5.3	5.3	52	86
5.4	5.4	57	93
5.5	5.5	57	93
5.6	5.6	57	93
5.7	5.7	57	93
5.8	5.8	57	93
5.9	5.9	57	93
6	6	57	93
6.1	6.1	63	101
6.2	6.2	63	101
6.3	6.3	63	101
6.4	6.4	63	101
6.5	6.5	63	101
6.6	6.6	63	101
6.7	6.7	63	101



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GENERAL PURPOSE JOBBER DRILLS

AS PER :DIN 338

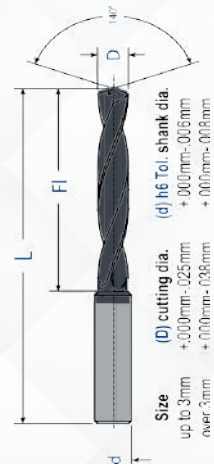
DRILL DIA TOL h7

SERIES: MTDJRJ

DIA(D1)	SH.DIA	FL	OAL
6.8	6.8	69	109
6.9	6.9	69	109
7	7	69	109
7.1	7.1	69	109
7.2	7.2	69	109
7.3	7.3	69	109
7.4	7.4	69	109
7.5	7.5	69	109
7.6	7.6	75	117
7.7	7.7	75	117
7.8	7.8	75	117
7.9	7.9	75	117
8	8	75	117
8.1	8.1	75	117
8.2	8.2	75	117
8.3	8.3	75	117
8.4	8.4	75	117
8.5	8.5	75	117
8.6	8.6	81	125
8.7	8.7	81	125
8.8	8.8	81	125
8.9	8.9	81	125
9	9	81	125
9.1	9.1	81	125
9.2	9.2	81	125
9.3	9.3	81	125
9.4	9.4	81	125



Available in Uncoated / TiALN/Tin Coating

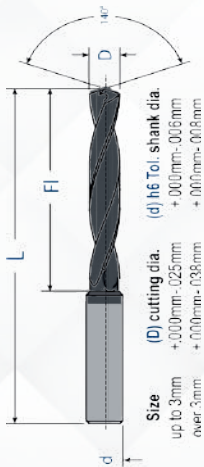




ISO 9001: 2015 Company



Available in Uncoated / TiAlN/Tin Coating



GENERAL PURPOSE JOBBER DRILLS

AS PER :DIN 338

DRILL DIA TOL h7

SERIES: MTD RJ

DIA(D1)	SH.DIA	FL	OAL
9.5	9.5	81	125
9.6	9.6	87	133
9.7	9.7	87	133
9.8	9.8	87	133
9.9	9.9	87	133
10	10	87	133
10.2	10.2	87	133
10.3	10.3	87	133
10.4	10.4	87	133
10.5	10.5	87	133
10.6	10.6	87	133
10.7	10.7	94	142
10.8	10.8	94	142
11	11	94	142
11.1	11.1	94	142
11.2	11.2	94	142
11.3	11.3	94	142
11.4	11.4	94	142
11.5	11.5	94	142
11.6	11.6	94	142
11.7	11.7	94	142
11.8	11.8	94	142
11.9	11.9	101	151
12	12	101	151
12.1	12.1	101	151
12.2	12.2	101	151
12.3	12.3	101	151



ISO 9001: 2015 Company

GENERAL PURPOSE JOBBER DRILLS

AS PER :DIN 338

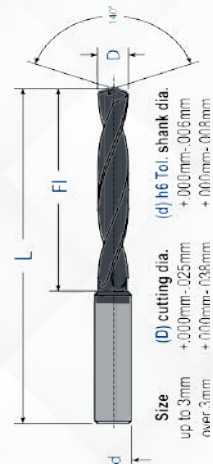
DRILL DIA TOL h7

SERIES: MTRDJ

DIA(D1)	SH.DIA	FL	OAL
12.4	12.4	101	151
12.5	12.5	101	151
12.6	12.6	101	151
12.7	12.7	101	151
12.8	12.8	101	151
12.9	12.9	101	151
13	13	101	151
13.1	13.1	101	151
13.2	13.2	101	151
13.3	13.3	108	160
13.4	13.4	108	160
13.5	13.5	108	160
13.6	13.6	108	160
13.7	13.7	108	160
13.8	13.8	108	160
13.9	13.9	108	160
14	14	108	160
14.1	14.1	114	169
14.2	14.2	114	169
14.3	14.3	114	169
14.4	14.4	114	169
14.5	14.5	114	169
14.6	14.6	114	169
14.7	14.7	114	169
14.8	14.8	114	169
14.9	14.9	114	169
15	15	114	169



Available in Uncoated / TiAlN/Tin Coating

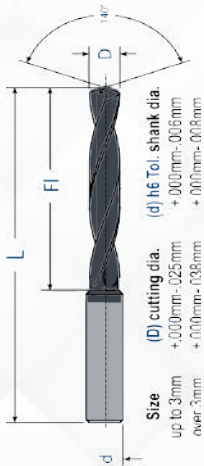




ISO 9001: 2015 Company



Available in Uncoated / TiALN/Tin Coating



GENERAL PURPOSE JOBBER DRILLS

AS PER :DIN 338

DRILL DIA TOL h7

SERIES: MTD RJ

DIA(D1)	SH.DIA	FL	OAL
15.1	15.1	120	178
15.2	15.2	120	178
15.3	15.3	120	178
15.4	15.4	120	178
15.5	15.5	120	178
15.6	15.6	120	178
15.7	15.7	120	178
15.8	15.8	120	178
15.9	15.9	120	178
16	16	120	178
16.1	16.1	125	184
16.2	16.2	125	184
16.3	16.3	125	184
16.4	16.4	125	184
16.5	16.5	125	184
16.6	16.6	125	184
16.7	16.7	125	184
16.8	16.8	125	184
16.9	16.9	125	184
17	17	125	184
17.1	17.1	130	191
17.2	17.2	130	191
17.3	17.3	130	191
17.4	17.4	130	191
17.5	17.5	130	191
17.6	17.6	130	191
17.7	17.7	130	191



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GENERAL PURPOSE JOBBER DRILLS

AS PER :DIN 338

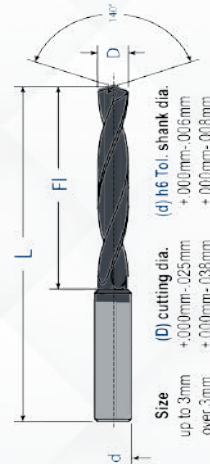
DRILL DIA TOL h7

SERIES: MTRDJ

DIA(D1)	SH.DIA	FL	OAL
17.8	17.8	130	191
17.9	17.9	130	191
18	18	130	191
18.1	18.1	135	198
18.2	18.2	135	198
18.3	18.3	135	198
18.4	18.4	135	198
18.5	18.5	135	198
18.6	18.6	135	198
18.7	18.7	135	198
18.8	18.8	135	198
18.9	18.9	135	198
19	19	135	198
19.1	19.1	140	205
19.2	19.2	140	205
19.3	19.3	140	205
19.4	19.4	140	205
19.5	19.5	140	205
19.6	19.6	140	205
19.7	19.7	140	205
19.8	19.8	140	205
19.9	19.9	140	205
20	20	140	205

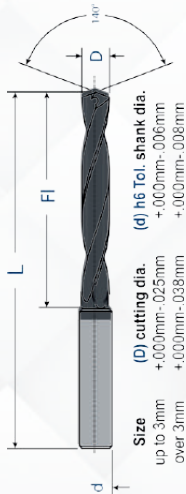


Available in Uncoated / TiAlN/Tin Coating





ISO 9001: 2015 Company



SOLID CARBIDE GENERAL PURPOSE STUB DRILL

AS PER: DIN6539

DRILL DIA TOL h7

DIA	SH. DIA	FL	OAL
1	1	6	26
1.1	1.1	7	28
1.2	1.2	8	30
1.3	1.3	8	30
1.4	1.4	9	32
1.5	1.5	9	32
1.6	1.6	10	34
1.7	1.7	10	34
1.8	1.8	11	36
1.9	1.9	11	36
2	2	12	38
2.1	2.1	12	38
2.2	2.2	13	40
2.3	2.3	13	40
2.4	2.4	14	43
2.5	2.5	14	43
2.6	2.6	14	43
2.7	2.7	16	46
2.8	2.8	16	46
2.9	2.9	16	46
3	3	16	46
3.1	3.1	18	49
3.2	3.2	18	49
3.3	3.3	18	49
3.4	3.4	20	52
3.5	3.5	20	52
3.6	3.6	20	52
3.7	3.7	20	52
3.8	3.8	22	55
3.9	3.9	22	55
4	4	22	55



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SOLID CARBIDE GENERAL PURPOSE STUB DRILL

AS PER: DIN6539

DRILL DIA TOL h7

DIA	SH. DIA	FL	OAL
4	4	22	55
4.1	4.1	22	55
4.2	4.2	22	55
4.3	4.3	24	58
4.4	4.4	24	58
4.5	4.5	24	58
4.6	4.6	24	58
4.7	4.7	24	58
4.8	4.8	26	62
4.9	4.9	26	62
5	5	26	62
5.1	5.1	26	62
5.2	5.2	26	62
5.3	5.3	26	62
5.4	5.4	28	66
5.5	5.5	28	66
5.6	5.6	28	66
5.7	5.7	28	66
5.8	5.8	28	66
5.9	5.9	28	66
6	6	28	66
6.1	6.1	28	70
6.2	6.2	31	70
6.3	6.3	31	70
6.4	6.4	31	70
6.5	6.4	31	70
6.6	6.5	31	70
6.7	6.6	31	70



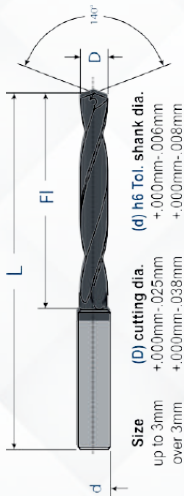


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SOLID CARBIDE GENERAL PURPOSE STUB DRILL

AS PER: DIN6539

DRILL DIA TOL h7



DIA	SH. DIA	FL	OAL
6.8	6.7	31	74
6.9	6.8	34	74
7	6.9	34	74
7.1	7	34	74
7.2	7.1	34	74
7.3	7.2	34	74
7.4	7.3	34	74
7.5	7.4	34	74
7.6	7.5	34	79
7.7	7.6	37	79
7.8	7.7	37	79
7.9	7.8	37	79
8	7.9	37	79
8.1	8	37	79
8.2	8.1	37	79
8.3	8.2	37	79
8.4	8.3	37	79
8.5	8.4	37	79
8.6	8.5	37	79
8.7	8.6	40	84
8.8	8.7	40	84
8.9	8.8	40	84
9	8.9	40	84
9.1	9	40	84
9.2	9.1	40	84
9.3	9.2	40	84
9.4	9.3	40	84



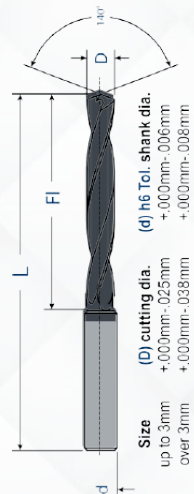
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SOLID CARBIDE GENERAL PURPOSE STUB DRILL

AS PER: DIN6539

DRILL DIA TOL h7

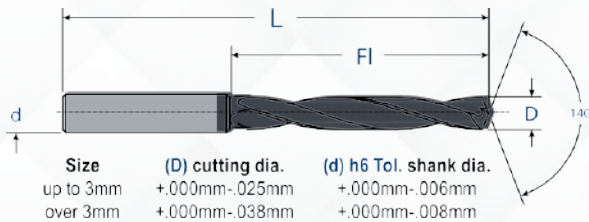
DIA	SH. DIA	FL	OAL
9.5	9.4	40	84
9.6	9.5	40	84
9.7	9.6	43	89
9.8	9.7	43	89
9.9	9.8	43	89
10	9.9	43	89
10.2	10	43	89
10.5	10.2	43	89
10.8	10.5	43	89
11	10.8	47	95
11.5	11	47	95
11.8	11.8	47	95
12	12	51	102
12.5	12.5	51	102
13	13	51	102
13.5	13.5	54	107
14	14	54	107
14.5	14.5	56	111
15	15	56	111
15.5	15.5	58	115
16	16	58	115
16.5	16.5	60	119
17	17	60	119



SOLID CARBIDE GENERAL PURPOSE STUB DRILL

AS PER: DIN6539
DRILL DIA TOL h7

DIA	SH. DIA	FL	OAL
17.5	17.5	62	123
18	18	62	123
18.5	18.5	64	127
19	19	64	127
19.5	19.5	66	131
20	20	66	131





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Solid Carbide High Performance Drill 3 x D

SERIES : MTHPDR3

Tol : h7/m7

Coating : TiCN/Latuma

ITEM CODE			
DIA (d)	SH.DIA (D)	FL (L1)	OAL (L)
3	6	20	62
3.1	6	20	62
3.2	6	20	62
3.3	6	20	62
3.4	6	20	62
3.5	6	20	62
3.6	6	20	62
3.7	6	20	62
3.8	6	24	66
3.9	6	24	66
4	6	24	66
4.1	6	24	66
4.2	6	24	66
4.3	6	24	66
4.4	6	24	66
4.5	6	24	66
4.6	6	24	66
4.7	6	24	66
4.8	6	28	66
4.9	6	28	66
5	6	28	66
5.1	6	28	66
5.2	6	28	66





Solid Carbide High Performance Drill 3 x D			
SERIES : MTHPDR3			
Tol : h7/m7		Coating : TiCN/Latuma	
ITEM CODE			
DIA (d)	SH.DIA (D)	FL (L1)	OAL (L)
5.3	6	28	66
5.4	6	28	66
5.5	6	28	66
5.6	6	28	66
6	6	28	66
6.1	8	34	79
6.2	8	34	79
6.3	8	34	79
6.4	8	34	79
6.5	8	34	79
6.6	8	34	79
6.7	8	34	79
6.8	8	34	79
6.9	8	34	79
7	8	34	79
7.1	8	41	79
7.2	8	41	79
7.3	8	41	79
7.4	8	41	79
7.5	8	41	79
7.6	8	41	79
7.7	8	41	79
7.8	8	41	79
7.9	8	41	79



ISO 9001: 2015 Company

Solid Carbide High Performance Drill 3 x D

SERIES : MTHPDR3

Tol : h7/m7

Coating : TiCN/Latuma

ITEM CODE			
DIA (d)	SH.DIA (D)	FL (L1)	OAL (L)
8	8	41	79
8.1	10	47	89
8.2	10	47	89
8.3	10	47	89
8.7	10	47	89
8.8	10	47	89
8.9	10	47	89
9	10	47	89
9.1	10	47	89
9.2	10	47	89
9.3	10	47	89
9.4	10	47	89
9.5	10	47	89
9.6	10	47	89
9.7	10	47	89
9.8	10	47	89
9.9	10	47	89
10	10	47	89
10.1	12	55	102
10.2	12	55	102
10.3	12	55	102
10.4	12	55	102
10.5	12	55	102





Solid Carbide High Performance Drill 3 x D			
SERIES : MTHPDR3			
Tol : h7/m7		Coating : TiCN/Latuma	
ITEM CODE			
DIA (d)	SH.DIA (D)	FL (L1)	OAL (L)
10.6	12	55	102
10.7	12	55	102
10.8	12	55	102
10.9	12	55	102
11	12	55	102
11.5	12	55	102
11.6	12	55	102
11.7	12	55	102
11.8	12	55	102
11.9	12	55	102
12	12	55	102
12.5	14	60	107
12.8	14	60	107
13	14	60	107
13.5	14	60	107
13.8	14	60	107
14	14	60	107
14.5	16	65	115
14.8	16	65	115
15	16	65	115
15.5	16	65	115
15.8	16	65	115
16	16	65	115



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Solid Carbide High Performance Drill 3 x D

SERIES : MTHPDR3

Tol : h7/m7

Coating : TiCN/Latuma

ITEM CODE			
DIA (d)	SH.DIA (D)	FL (L1)	OAL (L)
16.5	18	73	123
17	18	73	123
17.5	18	73	123
18	18	73	123
18.5	20	79	131





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Solid Carbide High Performance Drill 5 x D

SERIES : MTHPDR5

Tol : h7/m7

Coating : TiCN/Latuma

ITEM CODE	DIA (d)	SH.DIA (D)	FL (L1)	
ITEM CODE	DIA	SH.DIA	FL	OAL
MTHPDR030N5C	3	6	28	66
MTHPDR031N5C	3.1	6	28	66
MTHPDR032N5C	3.2	6	28	66
MTHPDR033N5C	3.3	6	28	66
MTHPDR034N5C	3.4	6	28	66
MTHPDR035N5C	3.5	6	28	66
MTHPDR036N5C	3.6	6	28	66
MTHPDR037N5C	3.7	6	28	66
MTHPDR038N5C	3.8	6	36	74
MTHPDR039N5C	3.9	6	36	74
MTHPDR040N5C	4	6	36	74
MTHPDR041N5C	4.1	6	36	74
MTHPDR042N5C	4.2	6	36	74
MTHPDR043N5C	4.3	6	36	74
MTHPDR044N5C	4.4	6	36	74
MTHPDR045N5C	4.5	6	36	74
MTHPDR046N5C	4.6	6	36	74
MTHPDR047N5C	4.7	6	36	74
MTHPDR048N5C	4.8	6	44	82





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Solid Carbide High Performance Drill 5 x D

SERIES : MTHPDR5

Tol : h7/m7

Coating : TiCN/Latuma

ITEM CODE	DIA (d)	SH.DIA (D)	FL (L)	
ITEM CODE	DIA	SH.DIA	FL	OAL
MTHPDR049N5C	4.9	6	44	82
MTHPDR050N5C	5	6	44	82
MTHPDR051N5C	5.1	6	44	82
MTHPDR052N5C	5.2	6	44	82
MTHPDR053N5C	5.3	6	44	82
MTHPDR054N5C	5.4	6	44	82
MTHPDR055N5C	5.5	6	44	82
MTHPDR056N5C	5.6	6	44	82
MTHPDR057N5C	5.7	6	44	82
MTHPDR058N5C	5.8	6	44	82
MTHPDR059N5C	5.9	6	44	82
MTHPDR060N5C	6	6	44	82
MTHPDR061N5C	6.1	8	53	91
MTHPDR062N5C	6.2	8	53	91
MTHPDR063N5C	6.3	8	53	91
MTHPDR064N5C	6.4	8	53	91
MTHPDR065N5C	6.5	8	53	91
MTHPDR066N5C	6.6	8	53	91
MTHPDR067N5C	6.7	8	53	91
MTHPDR068N5C	6.8	8	53	91
MTHPDR069N5C	6.9	8	53	91





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Solid Carbide High Performance Drill 5 x D

SERIES : MTHPDR5

Tol : h7/m7

Coating : TiCN/Latuma

ITEM CODE	DIA (d)	SH.DIA (D)	FL (L)	
ITEM CODE	DIA	SH.DIA	FL	OAL
MTHPDR070N5C	7	8	53	91
MTHPDR071N5C	7.1	8	53	91
MTHPDR072N5C	7.2	8	53	91
MTHPDR073N5C	7.3	8	53	91
MTHPDR077N5C	7.7	8	53	91
MTHPDR078N5C	7.8	8	53	91
MTHPDR079N5C	7.9	8	53	91
MTHPDR080N5C	8	8	53	91
MTHPDR081N5C	8.1	10	61	103
MTHPDR082N5C	8.2	10	61	103
MTHPDR083N5C	8.3	10	61	103
MTHPDR084N5C	8.4	10	61	103
MTHPDR085N5C	8.5	10	61	103
MTHPDR086N5C	8.6	10	61	103
MTHPDR087N5C	8.7	10	61	103
MTHPDR088N5C	8.8	10	61	103
MTHPDR089N5C	8.9	10	61	103
MTHPDR090N5C	9	10	61	103
MTHPDR091N5C	9.1	10	61	103
MTHPDR092N5C	9.2	10	61	103
MTHPDR093N5C	9.3	10	61	103
MTHPDR094N5C	9.4	10	61	103





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Solid Carbide High Performance Drill 5 x D

SERIES : MTHPDR5

Tol : h7/m7

Coating : TiCN/Latuma

ITEM CODE	DIA (d)	SH.DIA (D)	FL (L)	
ITEM CODE	DIA	SH.DIA	FL	OAL
MTHPDR095N5C	9.5	10	61	103
MTHPDR096N5C	9.6	10	61	103
MTHPDR097N5C	9.7	10	61	103
MTHPDR098N5C	9.8	10	61	103
MTHPDR099N5C	9.9	10	61	103
MTHPDR104N5C	10.4	12	71	118
MTHPDR105N5C	10.5	12	71	118
MTHPDR106N5C	10.6	12	71	118
MTHPDR107N5C	10.7	12	71	118
MTHPDR108N5C	10.8	12	71	118
MTHPDR109N5C	10.9	12	71	118
MTHPDR110N5C	11	12	71	118
MTHPDR111N5C	11.1	12	71	118
MTHPDR112N5C	11.2	12	71	118
MTHPDR113N5C	11.3	12	71	118
MTHPDR114N5C	11.4	12	71	118
MTHPDR115N5C	11.5	12	71	118
MTHPDR116N5C	11.6	12	71	118
MTHPDR117N5C	11.7	12	71	118
MTHPDR118N5C	11.8	12	71	118
MTHPDR119N5C	11.9	12	71	118
MTHPDR120N5C	12	12	71	118





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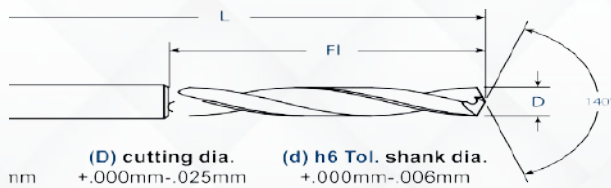
Solid Carbide High Performance Drill 5 x D

SERIES : MTHPDR5

Tol : h7/m7

Coating : TiCN/Latuma

ITEM CODE	DIA (d)	SH.DIA (D)	FL (L1)	
ITEM CODE	DIA	SH.DIA	FL	OAL
MTHPDR125N5C	12.5	14	77	124
MTHPDR130N5C	13	14	77	124
MTHPDR135N5C	13.5	14	77	124
MTHPDR140N5C	14	14	77	124
MTHPDR145N5C	14.5	16	83	133
MTHPDR170N5C	17	18	93	143
MTHPDR175N5C	17.5	18	93	143
MTHPDR180N5C	18	18	93	143
MTHPDR185N5C	18.5	20	101	150
MTHPDR190N5C	19	20	101	150
MTHPDR195N5C	19.5	20	101	150
MTHPDR200N5C	20	20	101	150





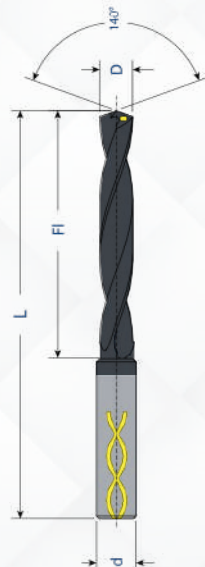
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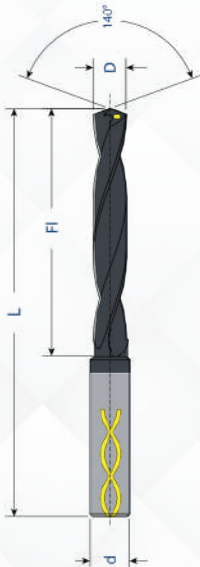
SOLID CARBIDE HP THROUGH COOLANT DRILLS

SERIES : MTDRT5
Drill Dia Tol : m7/h7

5xD(ALTiSiN Coated)

DIA	SH.DIA	FL	OAL
3	4	28	66
3.1	4	28	66
3.2	4	28	66
3.3	4	28	66
3.4	4	28	66
3.5	4	28	66
3.6	4	28	66
3.7	4	28	66
3.8	4	36	74
3.9	4	36	74
4	4	36	74
4.1	6	36	74
4.2	6	36	74
4.3	6	36	74
4.4	6	36	74
4.5	6	36	74
4.6	6	36	74
4.7	6	36	74
4.8	6	44	82
4.9	6	44	82
5	6	44	82
5.1	6	44	82
5.2	6	44	82
5.3	6	44	82
5.4	6	44	82





SOLID CARBIDE HP THROUGH COOLANT DRILLS

SERIES : MTDRT5

5xD(ALTiSiN Coated)

Drill Dia Tol : m7/h7

DIA	SH.DIA	FL	OAL
5.5	6	44	82
5.6	6	44	82
5.7	6	44	82
6	6	44	82
6.1	8	53	91
6.2	8	53	91
6.3	8	53	91
6.4	8	53	91
6.5	8	53	91
6.6	8	53	91
6.7	8	53	91
6.8	8	53	91
6.9	8	53	91
7	8	53	91
7.1	8	53	91
7.2	8	53	91
7.3	8	53	91
7.4	8	53	91
7.5	8	53	91
7.6	8	53	91
7.7	8	53	91
7.8	8	53	91
7.9	8	53	91
8	8	53	91
8.1	10	61	103



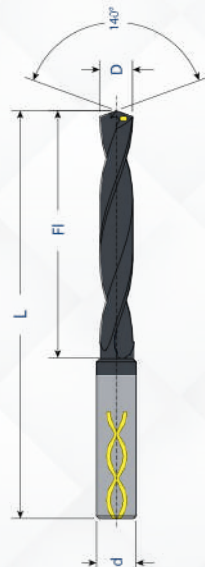
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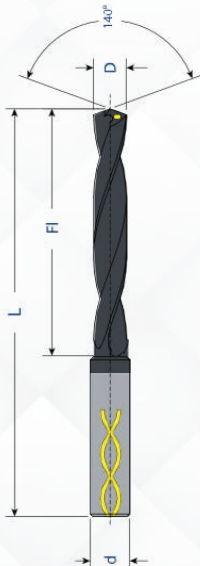
SOLID CARBIDE HP THROUGH COOLANT DRILLS

SERIES : MTDRT5
Drill Dia Tol : m7/h7

5xD(ALTiSiN Coated)

DIA	SH.DIA	FL	OAL
8.2	10	61	103
8.3	10	61	103
8.4	10	61	103
8.5	10	61	103
8.9	10	61	103
9	10	61	103
9.1	10	61	103
9.2	10	61	103
9.3	10	61	103
9.4	10	61	103
9.5	10	61	103
9.6	10	61	103
9.7	10	61	103
9.8	10	61	103
9.9	10	61	103
10	10	61	103
10.1	12	71	118
10.2	12	71	118
10.3	12	71	118
10.4	12	71	118
10.5	12	71	118
10.6	12	71	118
10.7	12	71	118
10.8	12	71	118
10.9	12	71	118





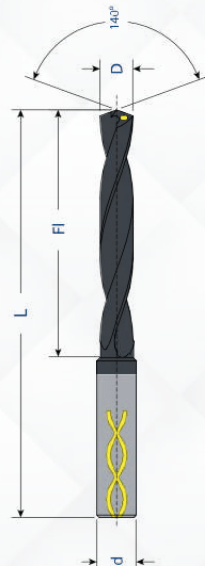
SOLID CARBIDE HP THROUGH COOLANT DRILLS			
SERIES : MTDRT5		5xD(ALTiSiN Coated)	
Drill Dia Tol : m7/h7			
DIA	SH.DIA	FL	OAL
11	12	71	118
11.1	12	71	118
11.2	12	71	118
11.3	12	71	118
11.7	12	71	118
11.8	12	71	118
11.9	12	71	118
12	12	71	118
12.5	14	77	124
13	14	77	124
13.5	14	77	124
14	14	77	124
14.5	16	83	133
15	16	83	133
15.5	16	83	133
16	16	83	133
16.5	18	93	143
17	18	93	143
17.5	18	93	143
18	18	93	143
18.5	20	101	150
19	20	101	150
19.5	20	101	150
20	20	101	150



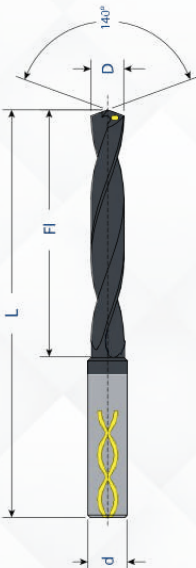
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SOLID CARBIDE HP THROUGH COOLANT DRILLS 8XD

DIA	SH.DIA	FL	OAL
3	4	34	72
3.1	4	34	72
3.2	4	34	72
3.3	4	34	72
3.4	4	34	72
3.5	4	34	72
3.6	4	34	72
3.7	4	34	72
3.8	4	43	81
3.9	4	43	81
4	4	43	81
4.1	6	43	81
4.2	6	43	81
4.3	6	43	81
4.4	6	43	81
4.5	6	43	81
4.6	6	43	81
4.7	6	43	81
4.8	6	57	95
4.9	6	57	95
5	6	57	95
5.1	6	57	95
5.2	6	57	95
5.3	6	57	95
5.4	6	57	95
5.5	6	57	95
5.6	6	57	95
5.7	6	57	95



SOLID CARBIDE HP THROUGH COOLANT DRILLS 8XD



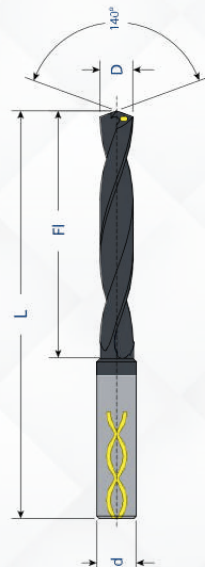
DIA	SH.DIA	FL	OAL
5.8	6	57	95
5.9	6	57	95
6	6	57	95
6.1	8	76	114
6.2	8	76	114
6.3	8	76	114
6.4	8	76	114
6.5	8	76	114
6.6	8	76	114
6.7	8	76	114
6.8	8	76	114
6.9	8	76	114
7	8	76	114
7.1	8	76	114
7.2	8	76	114
7.3	8	76	114
7.4	8	76	114
7.5	8	76	114
7.6	8	76	114
7.7	8	76	114
7.9	8	76	114
8	8	76	114
8.1	10	95	142
8.2	10	95	142
8.3	10	95	142
8.4	10	95	142
8.5	10	95	142
8.6	10	95	142



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SOLID CARBIDE HP THROUGH COOLANT DRILLS 8XD

DIA	SH.DIA	FL	OAL
8.7	10	95	142
8.8	10	95	142
8.9	10	95	142
9	10	95	142
9.1	10	95	142
9.2	10	95	142
9.3	10	95	142
9.4	10	95	142
9.5	10	95	142
9.6	10	95	142
9.7	10	95	142
9.8	10	95	142
9.9	10	95	142
10	10	95	142
10.1	12	114	162
10.2	12	114	162
10.3	12	114	162
10.4	12	114	162
10.5	12	114	162
10.6	12	114	162
10.7	12	114	162
10.8	12	114	162
10.9	12	114	162
11	12	114	162
11.1	12	114	162
11.2	12	114	162
11.3	12	114	162
11.4	12	114	162



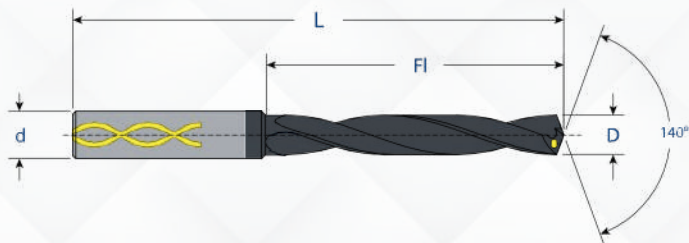


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SOLID CARBIDE HP THROUGH COOLANT DRILLS 8XD

DIA	SH.DIA	FL	OAL
11.5	12	114	162
11.6	12	114	162
11.7	12	114	162
11.8	12	114	162
11.9	12	114	162
12	12	114	162





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