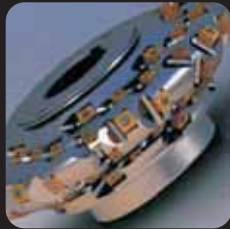


METAL CUTTING TOOLS



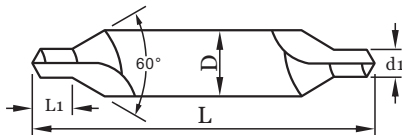
Center Drill HSS

高速钢螺旋槽中心钻 A 型

Right hand cutting
Form A, 60° angle

DIN 333A

钻尖角度: 118°
中心钻柄径公差: h9
中心钻钻尖公差: k12
Point angle: standard (118°)
Tolerance on body diameter: h9
Tolerances on pilot dia: k12



Model	PILOT DIAMETER d1	BODY DIAMETER D	PILOT LENGTH L1	OVERALL LENGTH L	ORDER No.	Tin-Coated ORDER No.
A0.5	0.5	3.15	0.8	31.5	3506-0005	3506-1005
A0.8	0.8	3.15	1.1	31.5	3506-0008	3506-1008
A1.0	1.0	3.15	1.3	31.5	3506-0010	3506-1010
A1.25	1.25	3.15	1.6	31.5	3506-0012	3506-1012
A1.6	1.6	4.0	2.0	35.5	3506-0016	3506-1016
A2.0	2.0	5.0	2.5	40	3506-0020	3506-1020
A2.5	2.5	6.3	3.1	45	3506-0025	3506-1025
A3.15	3.15	8.0	3.9	50	3506-0031	3506-1031
A4.0	4.0	10.0	5.0	56	3506-0040	3506-1040
A5.0	5.0	12.5	6.3	63	3506-0050	3506-1050
A6.3	6.3	16.0	8.0	71	3506-0063	3506-1063
A8.0	8.0	20	10.1	80	3506-0080	3506-1080
A10	10	25	12.8	100	3506-0100	3506-1100

Metric Center Drill

Center Drill HSS

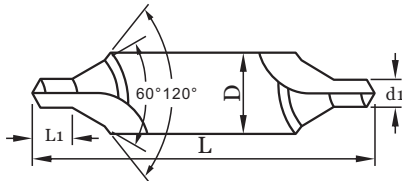
高速钢螺旋槽中心钻-B型

Right hand cutting
60°/120° Double angle
with protection chamfer form B

DIN 333B

钻尖角度: 118°
中心钻柄径公差: h9
中心钻钻尖公差: k12

Point angle: standard (118°)
Tolerance on body diameter: h9
Tolerances on pilot dia: k12



Model	PILOT DIAMETER d1	BODY DIAMETER D	PILOT LENGTH L1	OVERALL LENGTH L	ORDER No.	Tin-Coated ORDER No.
B1.0	1.0	4.0	1.3	35.5	3536-0010	3536-1010
B1.25	1.25	5.0	1.6	40.0	3536-0012	3536-1012
B1.6	1.6	6.3	2.0	45.0	3536-0016	3536-1016
B2.0	2.0	8.0	2.5	50.0	3536-0020	3536-1020
B2.5	2.5	10.0	3.1	56.0	3536-0025	3536-1025
B3.15	3.15	11.2	3.9	60.0	3536-0031	3536-1031
B4.0	4.0	14.0	5.0	67.0	3536-0040	3536-1040
B5.0	5.0	18.0	6.3	75.0	3536-0050	3536-1050
B6.3	6.3	20.0	8.0	80.0	3536-0063	3536-1063

Metric Radiused Center Drill

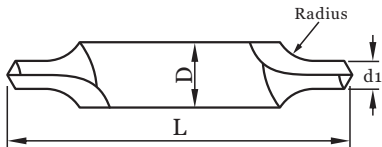
Center Drill HSS

高速钢螺旋槽中心钻-R型

Right hand cutting
Form R

DIN 333R

钻尖角度: 118°
中心钻柄径公差: h9
中心钻钻尖公差: k12
Point angle: standard (118°)
Tolerance on body diameter: h9
Tolerances on pilot dia: k12



Model	RADIUS mm	PILOT DIAMETER d1	BODY DIAMETER D	OVERALL LENGTH L	ORDER No.	Tin-Coated ORDER No.
0.5	1.6	0.5	3.15	31.5	3591-0005	3591-1005
0.8	2.5	0.8	3.15	31.5	3591-0008	3591-1008
1.0	3.15	1.0	3.15	31.5	3591-0010	3591-1010
1.25	4.0	1.25	3.15	31.5	3591-0012	3591-1012
1.6	4.5	1.6	4.0	35.5	3591-0016	3591-1016
2.0	5.5	2.0	5.0	40	3591-0020	3591-1020
2.5	7.0	2.5	6.3	45	3591-0025	3591-1025
3.15	9.5	3.15	8.0	50	3591-0031	3591-1031
4.0	11.0	4.0	10.0	56	3591-0040	3591-1040
5.0	14.0	5.0	12.5	63	3591-0050	3591-1050
6.3	18.0	6.3	16.0	71	3591-0063	3591-1063

British Standard Center Drill

Center Drill HSS

高速钢螺旋槽中心钻-BS型

Right hand cutting
Form A 60° angle

Point angle: standard (118°)

Tolerances:

Pilot diameter:

BS1 $\pm 0.002"$

BS2 $\pm 0.002"$

BS3 $\pm 0.003"$

BS4 $\pm 0.003"$

BS5 $\pm 0.003"$

BS6 $\pm 0.005"$

BS7 $\pm 0.005"$

Body diameter:

+0.000"-0.001"

+0.000"-0.001"

+0.000"-0.001"

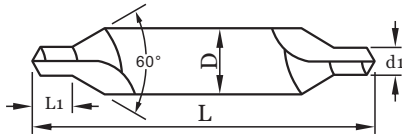
+0.000"-0.002"

+0.000"-0.002"

+0.000"-0.002"

+0.000"-0.002"

B.S.328



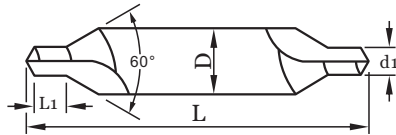
Model	PILOT DIAMETER d1	BODY DIAMETER D	PILOT LENGTH L1	OVERALL LENGTH L	ORDER No.	Tin-Coated ORDER No.
BS1	3/64	1/8	1/16	1-1/2	3572-0010	3572-1010
BS2	1/16	3/16	5/64	1-3/4	3572-0020	3572-1020
BS3	3/32	1/4	1/8	2	3572-0030	3572-1030
BS4	1/8	5/16	5/32	2-1/4	3572-0040	3572-1040
BS5	3/16	7/16	1/4	2-1/2	3572-0050	3572-1050
BS6	1/4	5/8	5/16	3	3572-0060	3572-1060
BS7	5/16	3/4	13/32	3-1/2	3572-0070	3572-1070

Center Drill HSS

高速钢螺旋槽中心钻-美标

Right hand cutting
Form A

ASME B94.11M-1993



SIZE	PILOT DIAMETER d1	PILOT LENGTH L1	BODY DIAMETER D	OVERALL LENGTH L	ORDER No.	Tin-Coated ORDER No.
00#	.025	.03	3/32	1-1/8	3556-0001	3556-0001
0#	1/32	.038	3/32	1-1/8	3556-0002	3556-0002
1#	3/64	3/64	1/8	1-1/4	3556-0010	3556-0010
2#	5/64	5/64	3/16	1-7/8	3556-0020	3556-0020
3#	7/64	7/64	1/4	2	3556-0030	3556-0030
4#	1/8	1/8	5/16	2-1/8	3556-0040	3556-0040
5#	3/16	3/16	7/16	2-3/4	3556-0050	3556-0050
6#	7/32	7/32	1/2	3	3556-0060	3556-0060
7#	1/4	1/4	5/8	3-1/4	3556-0070	3556-0070
8#	5/16	5/16	3/4	3-1/2	3556-0080	3556-0080

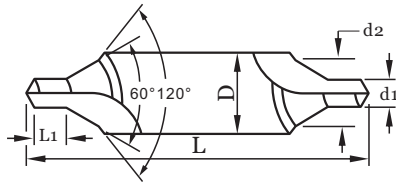
ASA Center Drill

Center Drill HSS

高速钢螺旋槽中心钻-美标

Right hand cutting
Form B 60°/120° angle

ASME B94.11M-1993

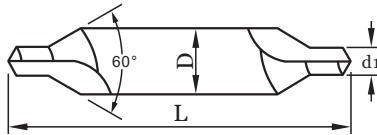


SIZE	PILOT DIAMETER d1	PILOT LENGTH L1	BODY DIAMETER D	BELL DIAMETER d2	OVERALL LENGTH L	ORDER No.	Tin-Coated ORDER No.
11#	3/64	3/64	1/8	.10	1-1/4	3556-0110	3556-1110
12#	1/16	1/16	3/16	.15	1-7/8	3556-0120	3556-1120
13#	3/32	3/32	1/4	.20	2	3556-0130	3556-1130
14#	7/64	7/64	5/16	.25	2-1/8	3556-0140	3556-1140
15#	5/32	5/32	7/16	.35	2-3/4	3556-0150	3556-1150
16#	3/16	3/16	1/2	.40	3	3556-0160	3556-1160
17#	7/32	7/32	5/8	.50	3-1/4	3556-0170	3556-1170
18#	1/4	1/4	3/4	.60	3-1/2	3556-0180	3556-1180

Center Drill HSS

高速钢螺旋槽中心钻-美标加长

Right hand cutting
Form A, 60° angle



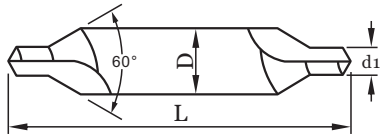
SIZE	PILOT DIAMETER d1	BODY DIAMETER D	OVERALL LENGTH L	ORDER No.	Tin-Coated ORDER No.
1A	3/64	1/8	3	3561-0013	3561-1013
1B	3/64	1/8	4	3561-0014	3561-1014
1C	3/64	1/8	5	3561-0015	3561-1015
1D	3/64	1/8	6	3561-0016	3561-1016
2A	5/64	3/16	3	3561-0023	3561-1023
2B	5/64	3/16	4	3561-0024	3561-1024
2C	5/64	3/16	5	3561-0025	3561-1025
2D	5/64	3/16	6	3561-0026	3561-1026
3A	7/64	1/4	3	3561-0033	3561-1033
3B	7/64	1/4	4	3561-0034	3561-1034
3C	7/64	1/4	5	3561-0035	3561-1035
3D	7/64	1/4	6	3561-0036	3561-1036
4A	1/8	5/16	3	3561-0043	3561-1043
4B	1/8	5/16	4	3561-0044	3561-1044
4C	1/8	5/16	5	3561-0045	3561-1045
4D	1/8	5/16	6	3561-0046	3561-1046
4-1/2A	9/64	3/8	4	3561-0047	3561-1047
4-1/2B	9/64	3/8	5	3561-0048	3561-1048
4-1/2C	9/64	3/8	6	3561-0049	3561-1049
5A	3/16	7/16	4	3561-0054	3561-1054
5B	3/16	7/16	5	3561-0055	3561-1055
5C	3/16	7/16	6	3561-0056	3561-1056
6A	7/32	1/2	4	3561-0064	3561-1064
6B	7/32	1/2	5	3561-0065	3561-1065
6C	7/32	1/2	6	3561-0066	3561-1066
7A	1/4	5/8	6	3561-0075	3561-1075
8A	5/16	3/4	6	3561-0086	3561-1086

Long Series Center Drill

Center Drill HSS

高速钢螺旋槽中心钻-公制加长

Right hand cutting
Form A, 60° angle



SIZE	PILOT DIAMETER d1	BODY DIAMETER D	OVERALL LENGTH L	ORDER No.	Tin-Coated ORDER No.
A0.75-60	0.75	3.5	60	3563-1010	3563-2010
A1-60	1.0	4.0	60	3563-1012	3563-2012
A1.5-60	1.5	5.0	60	3563-1014	3563-2014
A2-80	2.0	6.0	80	3563-1016	3563-2016
A2.5-80	2.5	8.0	80	3563-1018	3563-2018
A3-80	3	8.0	80	3563-1020	3563-2020
A3-100	3	10.0	100	3563-1022	3563-2022
A4-100	4	10.0	100	3563-1024	3563-2024
A4-100a	4	12.0	100	3563-1026	3563-2026
A0.75-120	0.75	3.5	120	3563-1028	3563-2028
A1-120	1.0	4.0	120	3563-1030	3563-2030
A1.5-120	1.5	5.0	120	3563-1032	3563-2032
A2-120	2.0	6.0	120	3563-1034	3563-2034
A2.5-120	2.5	8.0	120	3563-1036	3563-2036
A3-120	3	8.0	120	3563-1038	3563-2038
A3-120a	3	10.0	120	3563-1040	3563-2040
A4-120	4	10.0	120	3563-1042	3563-2042
A4-120a	4	12.0	120	3563-1044	3563-2044

Center Drill HSS Sets

高速钢螺旋槽中心钻套装

Right hand cutting
Form A, 60° angle



12PCS/Set CENTER DRILLS

* Standard DIN333A

INCLUDES: (包含如下规格数量)

A1.0 --1PCS

A1.6 --1PCS

A2.0 --2PCS

A2.5 --2PCS

A3.15 --3PCS

A4.0 --2PCS

A5.0 --1PCS

ORDER No. 3503-0001

Tin-Coated ORDER No. 3503-1001



5PCS/Set CENTER DRILLS

* Standard ASME B94.11M-1993

INCLUDES: (包含如下规格数量)

No1 --1PCS

No2 --1PCS

No3 --1PCS

No4 --1PCS

No5 --1PCS

ORDER No. 3546-0001

Tin-Coated ORDER No. 3546-1001



5PCS/Set Long Series CENTER DRILLS

* Standard ASME B94.11M-1993

INCLUDES: (包含如下规格数量)

No1B --1PCS

No2B --1PCS

No3B --1PCS

No4B --1PCS

No5A --1PCS

ORDER No. 3560-1001

Tin-Coated ORDER No. 3560-2001

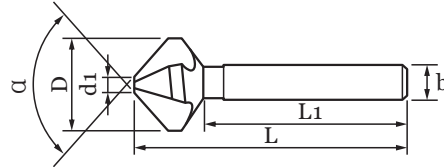
Countersink Drill

Countersink HSS

铰钻（倒角器）

With straight shank
Form C,
3Flute

DIN 335C



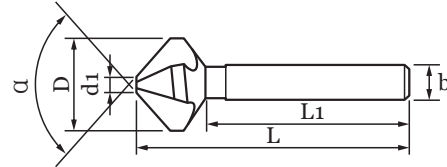
SIZE	DIA d1	SHANK b	SHANK LENGTH L1	OVERALL LENGTH L	90° UN-Coated ORDER No.	90° Tin-Coated ORDER No.
4.3	1.3	4	28	40	3200-4043	3200-5043
4.8	1.5	4	28	40	3200-4048	3200-5048
5.0	1.5	4	28	40	3200-4050	3200-5050
5.3	1.5	4	28	40	3200-4053	3200-5053
5.6	1.5	5	28	45	3200-4056	3200-5056
5.8	1.5	5	28	45	3200-4058	3200-5058
6.0	1.5	5	28	45	3200-4060	3200-5060
6.3	1.5	5	28	45	3200-4063	3200-5063
7.0	1.8	6	36	50	3200-4070	3200-5070
7.3	1.8	6	36	50	3200-4073	3200-5073
8.0	2	6	36	50	3200-4080	3200-5080
8.3	2	6	36	50	3200-4083	3200-5083
9.4	2.2	6	36	50	3200-4094	3200-5094
10.0	2.5	6	36	50	3200-4100	3200-5100
10.4	2.5	6	36	50	3200-4104	3200-5104
11.5	2.5	8	36	56	3200-4115	3200-5115
12.4	2.5	8	36	56	3200-4124	3200-5124
13.4	2.9	8	36	56	3200-4134	3200-5134
14.4	3	8	40	56	3200-4144	3200-5144
15.0	3.2	10	40	60	3200-4150	3200-5150
16.0	3.2	6	40	60	3200-4160	3200-5160
16.5	3.2	8	40	60	3200-4164	3200-5164
16.5	3.2	10	40	60	3200-4165	3200-5165
19.0	3.5	10	40	63	3200-4190	3200-5190
20.5	3.5	8	40	63	3200-4205	3200-5205
20.5	3.5	10	40	63	3200-4206	3200-5206
23.0	3.8	10	40	67	3200-4230	3200-5230
25.0	3.8	8	40	67	3200-4250	3200-5250
25.0	3.8	10	40	67	3200-4250	3200-5250
25.0	3.8	12	40	67	3200-4251	3200-5251
26.0	3.8	10	40	67	3200-4260	3200-5260
28.0	4	12	45	71	3200-4280	3200-5280
30.0	4.2	12	45	71	3200-4300	3200-5300
31.0	4.2	12	45	71	3200-4310	3200-5310
32.0	4.5	12	45	78	3200-4320	3200-5320
34.0	4.5	12	45	78	3200-4340	3200-5340
35.0	4.8	12	45	78	3200-4350	3200-5350
37.0	4.8	15	45	85	3200-4370	3200-5370
40.0	10	15	50	89	3200-4400	3200-5400

Arc Flute Countersink HSS

DIN 334C

铰钻 (倒角器)

With straight shank
Form C,
3Flute



SIZE	DIA d1	SHANK b	SHANK LENGTH L1	OVERALL LENGTH L	90° UN-Coated ORDER No.	90° Tin-Coated ORDER No.	60° UN-Coated ORDER No.	60° Tin-Coated ORDER No.
4.3	1.3	4	28	40	3203-0043	3203-1043	3203-2043	3203-3043
5.0	1.5	4	28	40	3203-0050	3203-1050	3203-2050	3203-3050
5.3	1.5	4	28	40	3203-0053	3203-1053	3203-2053	3203-3053
5.8	1.5	5	28	45	3203-0058	3203-1058	3203-2058	3203-3058
6.0	1.5	5	28	45	3203-0060	3203-1060	3203-2060	3203-3060
6.3	1.5	5	28	45	3203-0063	3203-1063	3203-2063	3203-3063
7.0	1.8	6	36	50	3203-0070	3203-1070	3203-2070	3203-3070
8.0	2	6	36	50	3203-0080	3203-1080	3203-2080	3203-3080
8.3	2	6	36	50	3203-0083	3203-1083	3203-2083	3203-3083
9.4	2.2	6	36	50	3203-0094	3203-1094	3203-2094	3203-3094
10.0	2.5	6	36	50	3203-0100	3203-1100	3203-2100	3203-3100
10.4	2.5	6	36	50	3203-0104	3203-1104	3203-2104	3203-3104
11.5	2.5	8	36	56	3203-0115	3203-1115	3203-2115	3203-3115
12.4	2.5	8	36	56	3203-0124	3203-1124	3203-2124	3203-3124
13.4	2.9	8	36	56	3203-0134	3203-1134	3203-2134	3203-3134
15.0	3.2	10	40	60	3203-0150	3203-1150	3203-2150	3203-3150
16.5	3.2	10	40	60	3203-0165	3203-1165	3203-2165	3203-3165
19.0	3.5	10	40	63	3203-0190	3203-1190	3203-2190	3203-3190
20.5	3.5	10	40	63	3203-0205	3203-1205	3203-2205	3203-3205
25.0	3.8	10	40	67	3203-0250	3203-1150	3203-2250	3203-3150

Countersink Drill

Countersink HSS

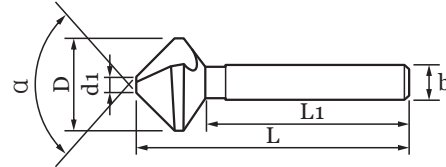
铰钻（倒角器）单槽

With straight shank

Form C

1Flute

DIN 335C



SIZE	DIA d1	SHANK b	SHANK LENGTH L1	OVERALL LENGTH L	90° UN-Coated ORDER No.	90° Tin-Coated ORDER No.	60° UN-Coated ORDER No.	60° Tin-Coated ORDER No.
4.3	1.3	4	28	40	3203-0043	3203-1043	3203-2043	3203-3043
5.0	1.5	4	28	40	3203-0050	3203-1050	3203-2050	3203-3050
5.3	1.5	4	28	40	3203-0053	3203-1053	3203-2053	3203-3053
5.8	1.5	5	28	45	3203-0058	3203-1058	3203-2058	3203-3058
6.0	1.5	5	28	45	3203-0060	3203-1060	3203-2060	3203-3060
6.3	1.5	5	28	45	3203-0063	3203-1063	3203-2063	3203-3063
7.0	1.8	6	36	50	3203-0070	3203-1070	3203-2070	3203-3070
8.0	2	6	36	50	3203-0080	3203-1080	3203-2080	3203-3080
8.3	2	6	36	50	3203-0083	3203-1083	3203-2083	3203-3083
9.4	2.2	6	36	50	3203-0094	3203-1094	3203-2094	3203-3094
10.0	2.5	6	36	50	3203-0100	3203-1100	3203-2100	3203-3100
10.4	2.5	6	36	50	3203-0104	3203-1104	3203-2104	3203-3104
11.5	2.5	8	36	56	3203-0115	3203-1115	3203-2115	3203-3115
12.4	2.5	8	36	56	3203-0124	3203-1124	3203-2124	3203-3124
13.4	2.9	8	36	56	3203-0134	3203-1134	3203-2134	3203-3134
15.0	3.2	10	40	60	3203-0150	3203-1150	3203-2150	3203-3150
16.5	3.2	10	40	60	3203-0165	3203-1165	3203-2165	3203-3165
19.0	3.5	10	40	63	3203-0190	3203-1190	3203-2190	3203-3190
20.5	3.5	10	40	63	3203-0205	3203-1205	3203-2205	3203-3205
25.0	3.8	10	40	67	3203-0250	3203-1250	3203-2250	3203-3250

Countersink Long Shank HSS

加长柄系列铰钻（倒角器）

With straight shank
Form C,
3Flute



SIZE	DIA d1	SHANK b	OVERALL LENGTH L	90° UN-Coated ORDER No.	90° Tin-Coated ORDER No.
6.3	1.5	5	100	3201-0063	3201-1063
8.3	2	6	100	3201-0083	3201-1083
9.4	2.2	6	100	3201-0094	3201-1094
10.4	2.5	6	100	3201-0104	3201-1104
12.4	2.5	8	100	3201-0124	3201-1124
16.5	3.2	10	100	3201-0165	3201-1165
20.5	3.5	10	100	3201-0205	3201-1205
25.0	3.8	10	100	3201-0250	3201-1250

Arc Flute

SIZE	DIA d1	SHANK b	OVERALL LENGTH L	90° UN-Coated ORDER No.	90° Tin-Coated ORDER No.
6.3	1.5	5	100	3202-0063	3202-1063
8.3	2	6	100	3202-0083	3202-1083
9.4	2.2	6	100	3202-0094	3202-1094
10.4	2.5	6	100	3202-0104	3202-1104
12.4	2.5	8	100	3202-0124	3202-1124
16.5	3.2	10	100	3202-0165	3202-1165
20.5	3.5	10	100	3202-0205	3202-1205
25.0	3.8	10	100	3202-0250	3202-1250

Countersink Drill

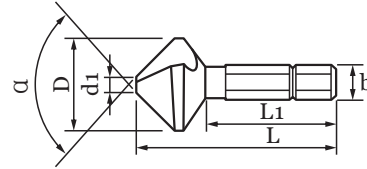
Countersink HSS

铰钻（倒角器）六方柄

Hexagon shank

Form C

3Flute



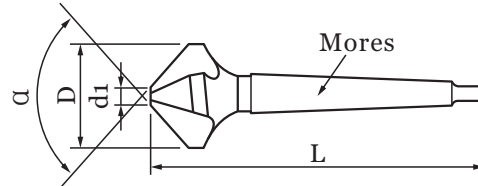
SIZE	DIA d1	SHANK b	SHANK LENGTH L1	OVERALL LENGTH L	90° UN-Coated ORDER No.	90° Tin-Coated ORDER No.	82° UN-Coated ORDER No.	82° Tin-Coated ORDER No.
4.3	1.3	4	28	40	3203-0043	3203-1043	3203-2043	3203-3043
5.0	1.5	4	28	40	3203-0050	3203-1050	3203-2050	3203-3050
5.3	1.5	4	28	40	3203-0053	3203-1053	3203-2053	3203-3053
5.8	1.5	5	28	45	3203-0058	3203-1058	3203-2058	3203-3058
6.0	1.5	5	28	45	3203-0060	3203-1060	3203-2060	3203-3060
6.3	1.5	5	28	45	3203-0063	3203-1063	3203-2063	3203-3063
7.0	1.8	6	36	50	3203-0070	3203-1070	3203-2070	3203-3070
8.0	2	6	36	50	3203-0080	3203-1080	3203-2080	3203-3080
8.3	2	6	36	50	3203-0083	3203-1083	3203-2083	3203-3083
9.4	2.2	6	36	50	3203-0094	3203-1094	3203-2094	3203-3094
10.0	2.5	6	36	50	3203-0100	3203-1100	3203-2100	3203-3100
10.4	2.5	6	36	50	3203-0104	3203-1104	3203-2104	3203-3104
11.5	2.5	8	36	56	3203-0115	3203-1115	3203-2115	3203-3115
12.4	2.5	8	36	56	3203-0124	3203-1124	3203-2124	3203-3124
13.4	2.9	8	36	56	3203-0134	3203-1134	3203-2134	3203-3134
15.0	3.2	10	40	60	3203-0150	3203-1150	3203-2150	3203-3150
16.5	3.2	10	40	60	3203-0165	3203-1165	3203-2165	3203-3165
19.0	3.5	10	40	63	3203-0190	3203-1190	3203-2190	3203-3190
20.5	3.5	10	40	63	3203-0205	3203-1205	3203-2205	3203-3205
25.0	3.8	10	40	67	3203-0250	3203-1250	3203-2250	3203-3250

Countersink Taper Shank HSS

DIN335D

锥柄系列铰钻（倒角器）

With Taper shank
Form D,
3Flute



SIZE	SHANK	OVERALL LENGTH mm	60° UN-Coated ORDER No.	60° Tin-Coated ORDER No.	90° UN-Coated ORDER No.	90° Tin-Coated ORDER No.
15	MT1	85	3230-0015	3231-0015	3234-0015	3235-0015
16.5	MT1	85	3230-0016	3231-0016	3234-0016	3235-0016
19	MT2	100	3230-0019	3231-0019	3234-0019	3235-0019
20.5	MT2	100	3230-0020	3231-0020	3234-0020	3235-0020
23	MT2	106	3230-0023	3231-0023	3234-0023	3235-0023
25	MT2	106	3230-0025	3231-0025	3234-0025	3235-0025
26	MT2	106	3230-0026	3231-0026	3234-0026	3235-0026
28	MT2	112	3230-0028	3231-0028	3234-0028	3235-0028
30	MT2	112	3230-0030	3231-0030	3234-0030	3235-0030
31	MT2	112	3230-0031	3231-0031	3234-0031	3235-0031
34	MT2	118	3230-0034	3231-0034	3234-0034	3235-0034
37	MT2	118	3230-0037	3231-0037	3234-0037	3235-0037
40	MT3	140	3230-0040	3231-0040	3234-0040	3235-0040
45	MT3	145	3230-0045	3231-0045	3234-0045	3235-0045
50	MT3	150	3230-0050	3231-0050	3234-0050	3235-0050
63	MT4	180	3230-0063	3231-0063	3234-0063	3235-0063
65	MT4	180	3230-0065	3231-0065	3234-0065	3235-0065
80	MT4	190	3230-0080	3231-0080	3234-0080	3235-0080
100	MT4	200	3230-0100	3231-0100	3234-0100	3235-0100

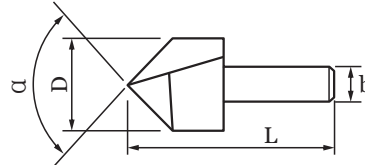
Countersink Drill

Single Flute Countersink HSS

铰钻

Straight shank

1Flute



SIZE D	SHANK b	OVERALL LENGTH L	60° UN-Coated ORDER No.	60° Tin-Coated ORDER No.	82° UN-Coated ORDER No.	82° Tin-Coated ORDER No.	90° UN-Coated ORDER No.	90° Tin-Coated ORDER No.
1/8	1/8	1-1/2	3210-0018	3210-1018	3210-2031	3210-3018	3210-4018	3210-5018
3/16	3/16	1-1/2	3210-0031	3210-1031	3210-2031	3210-3031	3210-4031	3210-5031
1/4	3/16	2	3210-0014	3210-1014	3210-2014	3210-3014	3210-4014	3210-5014
1/4	1/4	2	3210-0015	3210-1015	3210-2015	3210-3015	3210-4015	3210-5015
5/16	1/4	2	3210-0051	3210-1051	3210-2051	3210-3051	3210-4051	3210-5051
3/8	1/4	2	3210-0038	3210-1038	3210-2038	3210-3038	3210-4038	3210-5038
1/2	1/4	2	3210-0012	3210-1012	3210-2012	3210-3012	3210-4012	3210-5012
5/8	3/8	2-1/4	3210-0058	3210-1058	3210-2058	3210-3058	3210-4058	3210-5058
5/8	1/2	2-1/4	3210-0059	3210-1059	3210-2059	3210-3059	3210-4059	3210-5059
3/4	3/8	2-3/4	3210-0034	3210-1034	3210-2034	3210-3034	3210-4034	3210-5034
3/4	1/2	2-3/4	3210-0035	3210-1035	3210-2035	3210-3035	3210-4035	3210-5035
7/8	1/2	2-3/4	3210-0078	3210-1078	3210-2078	3210-3078	3210-4078	3210-5078
1	1/2	2-3/4	3210-0100	3210-1100	3210-2100	3210-3100	3210-4100	3210-5100
1-1/4	1/2	3	3210-0114	3210-1114	3210-2114	3210-3114	3210-4114	3210-5114
1-1/4	3/4	3	3210-0115	3210-1115	3210-2115	3210-3115	3210-4115	3210-5115
1-1/2	1/2	3-1/2	3210-0112	3210-1112	3210-2112	3210-3112	3210-4112	3210-5112
1-1/2	3/4	3-1/2	3210-0113	3210-1113	3210-2113	3210-3113	3210-4113	3210-5113
1-3/4	3/4	3-1/2	3210-0134	3210-1134	3210-2134	3210-3134	3210-4134	3210-5134
2	3/4	3-3/4	3210-0200	3210-1200	3210-2200	3210-3200	3210-4200	3210-5200
2-1/2	3/4	5	3210-0212	3210-1212	3210-2212	3210-3212	3210-4212	3210-5212
3	3/4	5-1/2	3210-0300	3210-1300	3210-2300	3210-3300	3210-4300	3210-5300

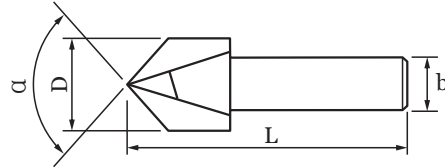
SIZE	SHANK b	OVERALL LENGTH L	100° UN-Coated ORDER No.	100° Tin-Coated ORDER No.	120° UN-Coated ORDER No.	120° Tin-Coated ORDER No.
1/8	1/8	1-1/2	3210-6018	3210-7018	3210-8031	3210-9018
3/16	3/16	1-1/2	3210-6031	3210-7031	3210-8031	3210-9031
1/4	3/16	2	3210-6014	3210-7014	3210-8014	3210-9014
1/4	1/4	2	3210-6015	3210-7015	3210-8015	3210-9015
5/16	1/4	2	3210-6051	3210-7051	3210-8051	3210-9051
3/8	1/4	2	3210-6038	3210-7038	3210-8038	3210-9038
1/2	1/4	2	3210-6012	3210-7012	3210-8012	3210-9012
5/8	3/8	2-1/4	3210-6058	3210-7058	3210-8058	3210-9058
5/8	1/2	2-1/4	3210-6059	3210-7059	3210-8059	3210-9059
3/4	3/8	2-3/4	3210-6034	3210-7034	3210-8034	3210-9034
3/4	1/2	2-3/4	3210-6035	3210-7035	3210-8035	3210-9035
7/8	1/2	2-3/4	3210-6078	3210-7078	3210-8078	3210-9078
1	1/2	2-3/4	3210-6100	3210-7100	3210-8100	3210-9100

3Flute Countersink HSS

铰钻（倒角器）

Straight shank

3Flute



SIZE	SHANK d	OVERALL LENGTH L	60° UN-Coated ORDER No.	60° Tin-Coated ORDER No.	82° UN-Coated ORDER No.	82° Tin-Coated ORDER No.	90° UN-Coated ORDER No.	90° Tin-Coated ORDER No.
1/4	1/4	1-1/2	3220-0014	3220-1014	3220-2014	3220-3014	3220-4014	3220-5014
1/4	3/16	1-1/2	3220-0015	3220-1015	3220-2015	3220-3015	3220-4015	3220-5015
3/8	1/4	1-3/4	3220-0038	3220-1038	3220-2038	3220-3038	3220-4038	3220-5038
1/2	1/4	2	3220-0012	3220-1012	3220-2012	3220-3012	3220-4012	3220-5012
1/2	3/8	2	3220-0013	3220-1013	3220-2013	3220-3013	3220-4013	3220-5013
5/8	1/4	2-1/4	3220-0058	3220-1058	3220-2058	3220-3058	3220-4058	3220-5058
5/8	3/8	2-1/4	3220-0059	3220-1059	3220-2059	3220-3059	3220-4059	3220-5059
3/4	1/2	2-1/4	3220-0034	3220-1034	3220-2034	3220-3034	3220-4034	3220-5034
1	1/2	2-3/4	3220-0100	3220-1100	3220-2100	3220-3100	3220-4100	3220-5100
1-1/4	1/2	3	3220-0114	3220-1114	3220-2114	3220-3114	3220-4114	3220-5114
1-1/2	1/2	3	3220-0112	3220-1112	3220-2112	3220-3112	3220-4112	3220-5112
1-1/2	3/4	3	3220-0113	3220-1113	3220-2113	3220-3113	3220-4113	3220-5113
2	3/4	3-1/4	3220-0200	3220-1200	3220-2200	3220-3200	3220-4200	3220-5200

SIZE	SHANK d	OVERALL LENGTH L	110° UN-Coated ORDER No.	110° Tin-Coated ORDER No.	120° UN-Coated ORDER No.	120° Tin-Coated ORDER No.
1/4	1/4	1-1/2	3220-6014	3220-7014	3220-8014	3220-9014
1/4	3/16	1-1/2	3220-6015	3220-7015	3220-8015	3220-9015
3/8	1/4	1-3/4	3220-6038	3220-7038	3220-8038	3220-9038
1/2	1/4	2	3220-6012	3220-7012	3220-8012	3220-9012
1/2	3/8	2	3220-6013	3220-7013	3220-8013	3220-9013
5/8	1/4	2-1/4	3220-6058	3220-7058	3220-8058	3220-9058
5/8	3/8	2-1/4	3220-6059	3220-7059	3220-8059	3220-9059
3/4	1/2	2-1/4	3220-6034	3220-7034	3220-8034	3220-9034
1	1/2	2-3/4	3220-6100	3220-7100	3220-8100	3220-9100
1-1/4	1/2	3	3220-6114	3220-7114	3220-8114	3220-9114
1-1/2	1/2	3	3220-6112	3220-7112	3220-8112	3220-9112
1-1/2	3/4	3	3220-6113	3220-7113	3220-8113	3220-9113
2	3/4	3-1/4	3220-6200	3220-7200	3220-8200	3220-9200

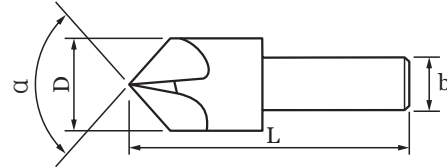
Countersink Drill

4 Flute Countersink HSS

铰钻（倒角器）

Straight shank

4Flute



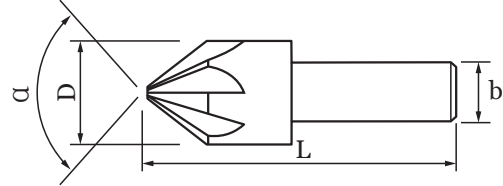
SIZE	SHANK d	OVERALL LENGTH L	60° UN-Coated ORDER No.	60° Tin-Coated ORDER No.	82° UN-Coated ORDER No.	82° Tin-Coated ORDER No.	90° UN-Coated ORDER No.	90° Tin-Coated ORDER No.
1/2	1/2	3-7/8	3264-0012	3264-1012	3264-2012	3264-3012	3264-4012	3264-5012
5/8	1/2	4	3264-0058	3264-1058	3264-2058	3264-3058	3264-4058	3264-5058
3/4	1/2	4-1/8	3264-0034	3264-1034	3264-2034	3264-3034	3264-4034	3264-5034
7/8	1/2	4-1/4	3264-0078	3264-1078	3264-2078	3264-3078	3264-4078	3264-5078
1	1/2	4-3/8	3264-0100	3264-1100	3264-2100	3264-3100	3264-4100	3264-5100
1-1/4	1/2	5	3264-0114	3264-1114	3264-2114	3264-3114	3264-4114	3264-5114
1-1/2	1/2	5-3/8	3264-0112	3264-1112	3264-2112	3264-3112	3264-4112	3264-5112

6 Flute Countersink HSS

銼鑽 (倒角器)

Straight shank

6Flute



SIZE	SHANK d	OVERALL LENGTH L	60° UN-Coated ORDER No.	60° Tin-Coated ORDER No.	82° UN-Coated ORDER No.	82° Tin-Coated ORDER No.	90° UN-Coated ORDER No.	90° Tin-Coated ORDER No.
3/16	3/16	1-1/2	3266-0031	3266-1031	3266-2031	3266-3031	3266-4031	3266-5031
1/4	1/4	2	3266-0014	3266-1014	3266-2014	3266-3014	3266-4014	3266-5014
5/16	1/4	2	3266-0051	3266-1051	3266-2051	3266-3051	3266-4051	3266-5051
3/8	1/4	2	3266-0038	3266-1038	3266-2038	3266-3038	3266-4038	3266-5038
1/2	1/4	2	3266-0012	3266-1012	3266-2012	3266-3012	3266-4012	3266-5012
5/8	1/2	2-1/2	3266-0058	3266-1058	3266-2058	3266-3058	3266-4058	3266-5058
3/4	1/2	2-3/4	3266-0034	3266-1034	3266-2034	3266-3034	3266-4034	3266-5034
7/8	1/2	2-3/4	3266-0078	3266-1078	3266-2078	3266-3078	3266-4078	3266-5078
1	1/2	2-3/4	3266-0100	3266-1100	3266-2100	3266-3100	3266-4100	3266-5100
1-1/4	3/4	3-3/8	3266-0114	3266-1114	3266-2114	3266-3114	3266-4114	3266-5114
1-1/2	3/4	3-1/2	3266-0112	3266-1112	3266-2112	3266-3112	3266-4112	3266-5112
1-3/4	1	4-1/4	3266-0134	3266-1134	3266-2134	3266-3134	3266-4134	3266-5134
2	1	4-3/8	3266-0200	3266-1200	3266-2200	3266-3200	3266-4200	3266-5200

SIZE	SHANK d	OVERALL LENGTH L	100° UN-Coated ORDER No.	100° Tin-Coated ORDER No.	110° UN-Coated ORDER No.	110° Tin-Coated ORDER No.	120° UN-Coated ORDER No.	120° Tin-Coated ORDER No.
3/16	3/16	1-1/2	3266-6031	3266-7031	3266-8031	3266-9031	3266-1201	3266-1214
1/4	1/4	2	3266-6014	3266-7014	3266-8014	3266-9014	3266-1202	3266-1215
5/16	1/4	2	3266-6051	3266-7051	3266-8051	3266-9051	3266-1203	3266-1216
3/8	1/4	2	3266-6038	3266-7038	3266-8038	3266-9038	3266-1204	3266-1217
1/2	1/4	2	3266-6012	3266-7012	3266-8012	3266-9012	3266-1205	3266-1218
5/8	1/2	2-1/2	3266-6058	3266-7058	3266-8058	3266-9058	3266-1206	3266-1219
3/4	1/2	2-3/4	3266-6034	3266-7034	3266-8034	3266-9034	3266-1207	3266-1220
7/8	1/2	2-3/4	3266-6078	3266-7078	3266-8078	3266-9078	3266-1208	3266-1221
1	1/2	2-3/4	3266-6100	3266-7100	3266-8100	3266-9100	3266-1209	3266-1222
1-1/4	3/4	3-3/8	3266-6114	3266-7114	3266-8114	3266-9114	3266-1210	3266-1223
1-1/2	3/4	3-1/2	3266-6112	3266-7112	3266-8112	3266-9112	3266-1211	3266-1224
1-3/4	1	4-1/4	3266-6134	3266-7134	3266-8134	3266-9134	3266-1212	3266-1225
2	1	4-3/8	3266-6200	3266-7200	3266-8200	3266-9200	3266-1213	3266-1226

Countersink Drill

Hss Countersink Sets Series

高速钢套装铰钻系列



6Pcs/Set 3Flute Countersink **6pcs/set: Includes** **8, 10, 12.4, 16.5, 20.5, 25mm**

60° Order No. 3240-0068
82° Order No. 3240-0088
90° Order No. 3240-0098
60° Tin-Coated Order No. 3240-1068
82° Tin-Coated Order No. 3240-1088
90° Tin-Coated Order No. 3240-1098



6Pcs/Set 3Flute Countersink **6pcs/set: Includes** **6.3, 8.3, 10.4, 12.4, 16.5, 20.5mm**

60° Order No. 3240-0066
82° Order No. 3240-0086
90° Order No. 3240-0096
60° Tin-Coated Order No. 3240-1066
82° Tin-Coated Order No. 3240-1086
90° Tin-Coated Order No. 3240-1096



6Pcs/Set 3 Arc Flute Countersink **6pcs/set: Includes** **6.3, 8.3, 10.4, 12.4, 16.5, 20.5mm**

60° Order No. 3240-0166
82° Order No. 3240-0186
90° Order No. 3240-0196
60° Tin-Coated Order No. 3240-1166
82° Tin-Coated Order No. 3240-1186
90° Tin-Coated Order No. 3240-1196



6Pcs/Set 3Flute Countersink HEXAGON SHANK **6pcs/set: Includes** **6.3, 8.3, 10.4, 12.4, 16.5, 20.5mm**

60° Order No. 3206-0466
82° Order No. 3206-0486
90° Order No. 3206-0496
60° Tin-Coated Order No. 3206-2466
82° Tin-Coated Order No. 3206-2486
90° Tin-Coated Order No. 3206-2496



12Pcs/Set 3Flute Countersink **12pcs/set: Includes** **5.3, 5.8, 6.3, 7.3, 8.3, 9.4, 10.4, 12.4, 13.4, 16.5, 20.5, 25mm**

60° Order No. 3240-0165
82° Order No. 3240-0185
90° Order No. 3240-0195
60° Tin-Coated Order No. 3240-1165
82° Tin-Coated Order No. 3240-1185
90° Tin-Coated Order No. 3240-1195

17Pcs/Set 3Flute Countersink **17pcs/set: Includes** **4.3, 5.0, 6.0, 6.3, 7.0, 8.0, 8.3, 10, 10.4, 11.5, 12.4, 15, 16.5(Shank 10mm) 19, 20.5, 23, 25mm**

60° Order No. 3240-0171
82° Order No. 3240-0172
90° Order No. 3240-0173
60° Tin-Coated Order No. 3240-1171
82° Tin-Coated Order No. 3240-1172
90° Tin-Coated Order No. 3240-1173

Countersink Drill



5Pcs/Set Hss 3Flute Countersink

***5pcs/set: Includes
1/4, 3/8, 1/2, 3/4 and 1"***

60° Order No.3220-0065
82° Order No.3220-0085
90° Order No.3220-0095
60° Tin-Coated Order No.3220-1065
82° Tin-Coated Order No.3220-1085
90° Tin-Coated Order No.3220-1095

6Pcs/Set Hss 3Flute Countersink

***6pcs/set: Includes
1/4, 3/8, 1/2, 5/8, 3/4 and 1"***

60° Order No.3220-0066
82° Order No.3220-0086
90° Order No.3220-0096
60° Tin-Coated Order No.3220-1066
82° Tin-Coated Order No.3220-1086
90° Tin-Coated Order No.3220-1096



5Pcs/Set Hss 6flute Countersink

***5pcs/set: Includes
1/4, 3/8, 1/2, 3/4 and 1"***

60° Order No.3266-0050
82° Order No.3266-0052
90° Order No.3266-0054
60° Tin-Coated Order No.3266-1050
82° Tin-Coated Order No.3266-1052
90° Tin-Coated Order No.3266-1054

5Pcs/Set Hss 6Flute Countersink

***8pcs/set: Includes
1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8 and 1"***

60° Order No.3266-0068
82° Order No.3266-0088
90° Order No.3266-0098
60° Tin-Coated Order No.3266-1068
82° Tin-Coated Order No.3266-1088
90° Tin-Coated Order No.3266-1098

10Pcs/Set Hss 6flute Countersink

***10pcs/set: Includes
3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1 and 1-1/4"***

60° Order No.3266-0160
82° Order No.3266-0180
90° Order No.3266-0190
60° Tin-Coated Order No.3266-1160
82° Tin-Coated Order No.3266-1180
90° Tin-Coated Order No.3266-1190

11pcs/set Hss 6Flute Countersink

***11Pcs/Set :Includes
3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/4 and 1-1/2"***

60° Order No.3266-0161
82° Order No.3266-0181
90° Order No.3266-0191
60° Tin-Coated Order No.3266-1161
82° Tin-Coated Order No.3266-1181
90° Tin-Coated Order No.3266-1191

Countersink Drill



5Pcs/set Hss Single Flute Countersink

***5pcs/set: Includes
1/4, 3/8, 1/2 (With 1/4 Shk)
3/4, 1 (With 1/2 Shk)***

60° Order No.3210-0065
82° Order No.3210-0085
90° Order No.3210-0095
60° Tin-Coated Order No.3210-1065
82° Tin-Coated Order No.3210-1085
90° Tin-Coated Order No.3210-1095

6Pcs/Set Hss Single Flute Countersink

***6pcs/set: Includes
1/4, 3/8, 1/2, (With 1/4 Shk)
5/8, 3/4, 1 (With 1/2 Shk)***

60° Order No.3210-0066
82° Order No.3210-0086
90° Order No.3210-0096
60° Tin-Coated Order No.3210-1066
82° Tin-Coated Order No.3210-1086
90° Tin-Coated Order No.3210-1096

11pcs/set Hss Single Flute Countersink

***11Pcs/Set: Includes
3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/4 and 1-1/2***

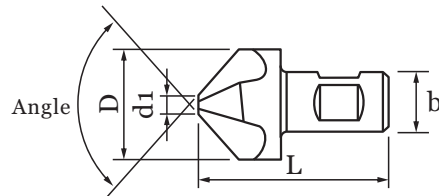
60° Order No.3210-0002
82° Order No.3210-0004
90° Order No.3210-0006
60° Tin-Coated Order No.3210-1002
82° Tin-Coated Order No.3210-1004
90° Tin-Coated Order No.3210-1006

3Flute Countersink Weldon Shank HSS

重型柄三刃铰钻（倒角器）

Straight shank

3Flute



SIZE D	d1	SHANK b	OAL L	60° UN-Coated ORDER No.	60° Tin-Coated ORDER No.	82° UN-Coated ORDER No.	82° Tin-Coated ORDER No.	90° UN-Coated ORDER No.	90° Tin-Coated ORDER No.
20	19	19	19	3203-0020	3203-0120	3203-0220	3203-0320	3203-0420	3203-0520
25	19	19	19	3203-0025	3203-0125	3203-0225	3203-0325	3203-0425	3203-0525
30	19	19	19	3203-0030	3203-0130	3203-0230	3203-0330	3203-0430	3203-0530
40	19	19	19	3203-0040	3203-0140	3203-0240	3203-0340	3203-0440	3203-0540
50	19	19	19	3203-0050	3203-0150	3203-0250	3203-0350	3203-0450	3203-0550
55	19	19	19	3203-0055	3203-0155	3203-0255	3203-0355	3203-0455	3203-0555
63	19	19	19	3203-0063	3203-0163	3203-0263	3203-0363	3203-0463	3203-0563
1	3/4	3/4	3/4	3203-0010	3203-0110	3203-0210	3203-0310	3203-0410	3203-0510
1-1/4	3/4	3/4	3/4	3203-0012	3203-0112	3203-0212	3203-0312	3203-0412	3203-0512
1-1/2	3/4	3/4	3/4	3203-0014	3203-0114	3203-0214	3203-0314	3203-0414	3203-0514
1-3/4	3/4	3/4	3/4	3203-0016	3203-0116	3203-0216	3203-0316	3203-0416	3203-0516
2	3/4	3/4	3/4	3203-0018	3203-0118	3203-0218	3203-0318	3203-0418	3203-0518

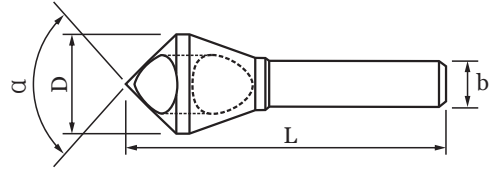
Countersink Drill

Zero Countersink HSS

零铰钻（倒角器）

Straight shank

0Flute



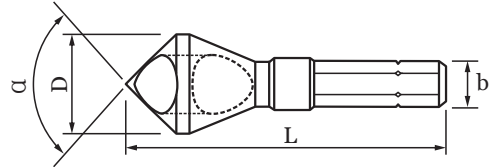
SIZE	CUTTER D	SHANK b	OVERALL LENGTH L	60° UN-Coated ORDER No.	60° Tin-Coated ORDER No.	82° UN-Coated ORDER No.	82° Tin-Coated ORDER No.	90° UN-Coated ORDER No.	90° Tin-Coated ORDER No.
1~4	6.35	6.35	45	3270-0014	3270-1014	3270-2014	3270-3014	3270-4014	3270-5014
2~5	10	6	45	3270-0025	3270-1025	3270-2025	3270-3025	3270-4025	3270-5025
5~10	14	8	48	3270-0051	3270-1051	3270-2051	3270-3051	3270-4051	3270-5051
10~15	21	10	65	3270-0115	3270-1115	3270-2115	3270-3115	3270-4115	3270-5115
15~20	27.5	12	85	3270-0152	3270-1152	3270-2152	3270-3152	3270-4152	3270-5152
20~25	35	15	102	3270-0225	3270-1225	3270-2225	3270-3225	3270-4225	3270-5225
25~30	44	15	115	3270-0253	3270-1253	3270-2253	3270-3253	3270-4253	3270-5253
30~35	48	15	127	3270-0335	3270-1335	3270-2335	3270-3335	3270-4335	3270-5335
35~40	53	15	136	3270-0354	3270-1354	3270-2354	3270-3354	3270-4354	3270-5354
40~45	58	18	155	3270-0445	3270-1445	3270-2445	3270-3445	3270-4445	3270-5445
45~50	64	20	166	3270-0455	3270-1455	3270-2455	3270-3455	3270-4455	3270-5455

SIZE	RANGE OF HOLE	SHANK b	60° UN-Coated ORDER No.	60° Tin-Coated ORDER No.	82° UN-Coated ORDER No.	82° Tin-Coated ORDER No.	90° UN-Coated ORDER No.	90° Tin-Coated ORDER No.
0#	1/16~15/64	1/4	3271-0116	3271-1116	3271-2116	3271-3116	3271-4116	3271-5116
1#	5/32~13/32	1/4	3271-0532	3271-1532	3271-2532	3271-3532	3271-4532	3271-5532
2#	3/16~17/32	1/4	3271-0316	3271-1316	3271-2316	3271-3316	3271-4316	3271-5316
3#	5/16~25/32	1/2	3271-0516	3271-1516	3271-2516	3271-3516	3271-4516	3271-5516
4#	9/16~1/16	1/2	3271-0916	3271-1916	3271-2916	3271-3916	3271-4916	3271-5916
5#	1/2~1-1/2	1/2			3271-2120	3271-3120		
6#	3/4~1-3/4	5/8			3271-2340	3271-3340		
7#	1"~2"	5/8			3271-2100	3271-3100		
8#	1-1/4~2-1/2	3/4			3271-2114	3271-3114		

Countersink Hexagon Shank HSS

六角柄零刃銼鑽（倒角器）

0Flute



SIZE	SHANK b	OVERALL LENGTH L	60° UN-Coated ORDER No.	60° Tin-Coated ORDER No.	82° UN-Coated ORDER No.	82° Tin-Coated ORDER No.	90° UN-Coated ORDER No.	90° Tin-Coated ORDER No.
1~4	6.35	45	3280-0014	3280-1014	3280-2014	3280-3014	3280-4014	3280-5014
2~5	6.35	45	3280-0025	3280-1025	3280-2025	3280-3025	3280-4025	3280-5025
5~10	6.35	48	3280-0051	3280-1051	3280-2051	3280-3051	3280-4051	3280-5051
10~15	9.525	65	3280-0115	3280-1115	3280-2115	3280-3115	3280-4115	3280-5115

SIZE	SHANK	RANGE OF HOLE	60° UN-Coated ORDER No.	60° Tin-Coated ORDER No.	82° UN-Coated ORDER No.	82° Tin-Coated ORDER No.	90° UN-Coated ORDER No.	90° Tin-Coated ORDER No.
0	1/4	1/16~15/64	3281-0116	3281-1116	3281-2116	3281-3116	3281-4116	3281-5116
1	1/4	5/32~13/32	3281-0532	3281-1532	3281-2532	3281-3532	3281-4532	3281-5532
2	1/4	3/16~17/32	3281-0316	3281-1316	3281-2316	3281-3316	3281-4316	3281-5316
3	3/8	5/16~25/32	3281-0516	3281-1516	3281-2516	3281-3516	3281-4516	3281-5516
4	3/8	9/16~1/16	3281-0916	3281-1916	3281-2916	3281-3916	3281-4916	3281-5916
5	3/8	1/2~1-1/2			3281-2120	3281-3120		

Countersink Drill

Hss Zero Flute Countersink Sets

高速钢零刃铳钻套装



4Pcs/Set Zero Flute Countersink Metal Case

4pcs/set: Includes
2~5, 5~10, 10~15, 15~20mm

60° Order No. .3270-0064
82° Order No. .3270-0084
90° Order No. .3270-0094
60° Tin-Coated Order No. .3270-1064
82° Tin-Coated Order No. .3270-1084
90° Tin-Coated Order No. .3270-1094

5Pcs/Set Zero Flute Countersink WoodenBOX Case

5pcs/set: Includes
1~4, 2~5, 5~10, 10~15, 15~20mm

60° Order No. .3270-0065
82° Order No. .3270-0085
90° Order No. .3270-0095
60° Tin-Coated Order No. .3270-1065
82° Tin-Coated Order No. .3270-1085
90° Tin-Coated Order No. .3270-1095



5Pcs/Set Zero Flute Countersink Metal Case

5pcs/set: Includes
2~5, 5~10, 10~15, 15~20, 20~25mm

60° Order No. .3270-0075
82° Order No. .3270-0085
90° Order No. .3270-0095
60° Tin-Coated Order No. .3270-1075
82° Tin-Coated Order No. .3270-1085
90° Tin-Coated Order No. .3270-1095

6Pcs/Set Zero Flute Countersink WoodenBOX Case

6pcs/set: Includes
2~5, 5~10, 10~15, 15~20, 20~25, 25~30 mm

60° Order No. .3270-0066
82° Order No. .3270-0086
90° Order No. .3270-0096
60° Tin-Coated Order No. .3270-1066
82° Tin-Coated Order No. .3270-1086
90° Tin-Coated Order No. .3270-1096

5Pcs/Set Zero Flute Countersink WoodenBOX Case

5pcs/set: Includes
0#, 1#, 2#, 3#, 4#

60° Order No. .3271-0604
82° Order No. .3271-0804
90° Order No. .3271-0904
60° Tin-Coated Order No. .3271-1604
82° Tin-Coated Order No. .3271-1804
90° Tin-Coated Order No. .3271-1904

5Pcs/Set Zero Flute Countersink HEXagon Shank

5pcs/set: Includes
0#, 1#, 2#, 3#, 4#

60° Order No. .3271-0610
82° Order No. .3271-0810
90° Order No. .3271-0910
60° Tin-Coated Order No. .3271-1610
82° Tin-Coated Order No. .3271-1810
90° Tin-Coated Order No. .3271-1910

3Pcs/Set Zero Flute Countersink HEXagon Shank

Cutting diameters:

- ♦ 5/64" to 15/64"
- ♦ 1/8" to 11/32"
- ♦ 3/16" to 17/32"
- Includes 5/64", 1/8" and 3/16" drill bits



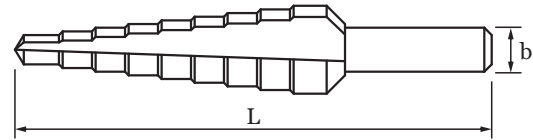
60° Order No. .3282-9000
82° Order No. .3282-9001
90° Order No. .3282-9002
60° Tin-Coated Order No. .3282-8000
82° Tin-Coated Order No. .3282-8001
90° Tin-Coated Order No. .3282-8002

HSS STEP DRILL

合阶钻

2Flute

* Two Flute Metric
* Sizes for all standard machine tables.
Safety-stop feature Prevents breaking the machine-table slot. Threads stop one Short of going threads T nut to prevent a stud from jacking the nut out of the table.



SIZE	STEPS	HOLE SIZE	SHANK DIA	OVERALL LENGTH	HSS ORDER #	HSS TIN ORDER #
4~10	7	4,5,6,7,8,9,10	6	65	3000-4410	3001-4410
4~12	5	4,6,8,10,12	6	65	3000-4412	3001-4412
4~12	9	4,5,6,7,8,9,10,11,12	6	65	3000-9412	3001-9412
4~20	13	4,5,6,7,8,9,10,11,12,14,16,18,20	8	75	3000-3420	3001-3420
4~22	14	4,5,6,7,8,9,10,11,12,14,16,18,20,22	8	81	3000-4422	3001-4422
4~24	11	4,6,8,10,12,14,16,18,20,22,24	10	81	3000-4424	3001-4424
4~30	14	4,6,8,10,12,14,16,18,20,22,24,26,28,30	10	100	3000-5430	3001-5430
4~32	15	4,6,8,10,12,14,16,18,20,22,24,26,28,30,32	8	66	3000-5432	3001-5432
6~18	7	6,8,10,12,14,16,18	8	66	3000-8618	3001-8618
6~20	8	6,8,10,12,14,16,18,20	8	66	3000-8620	3001-8620
6~30	13	6,8,10,12,14,16,18,20,22,24,26,28,30	10	98	3000-3630	3001-3630
5~35	13	5,8,10,12,15,18,20,22,25,27,30,32,35	13	73	3000-3535	3001-3535
6~38	12	6,9,13,16,19,21,23,26,29,32,35,38	10	100	3000-2638	3001-2638
6~26.75	8	6,9,11,4,17,25,19,21,25,26,75	10	75	3000-7626	3001-7626
4~39	13	4,6,9,12,15,18,21,24,27,30,33,36,39	12	107	3000-3439	3001-3439
6~39	12	6,9,12,15,18,21,24,27,30,33,36,39	12	111	3000-2639	3001-2639
6~32	8	6,9,11,2,14,5,18,2,22,3,27,9,32	12	75	3000-8632	3001-8632
5~28	7	5,8,8,11,8,15,3,19,24,5,28	10	69	3000-7528	3001-7528
6~37	12	6,9,12,5,15,2,18,6,20,4,22,5,26,28,3,30,5,24,37	10	100	3000-2637	3001-2637
4.8~10.65	5	4,8,6,4,7,2,9,6,10,65	6	65	3000-5410	3001-5410
6~25	7	6,9,12,16,20,22,5,25	10	65	3000-7625	3001-7625
6~32	8	6,8,12,16,20,22,5,25,28,5,32	12	75	3000-9632	3001-9632
6~40	16	6,9,17,23,29,30,31,32,33,34,35,36,37,38,39,40	13	105	3000-6640	3001-6640
12.5~30.5	7	12,5,15,2,18,6,20,4,22,5,28,3,30,5	12	75	3000-7123	3001-7123
9~36	10	9,12,15,18,21,24,27,30,33,36	12	81	3000-1936	3001-1936
5~30.5	11	5,7,5,10,12,5,15,2,18,6,20,4,22,5,25,5,28,3,30,5	12	90	3000-1530	3001-1530
5~38	14	5,7,5,10,13,16,19,21,23,26,29,31,33,35,38	12	95	3000-1538	3001-1538
6~32	9	6,9,12,16,20,22,5,25,28,5,32	13	76	3000-8633	3001-8633
4~39	13	4,6,9,12,15,18,21,24,27,30,33,36,39	10	107	3000-3440	3001-3440

六方柄高速钢阶梯钻

1/4标准六方接头



六方柄，主要应用于家用手电钻等要求不高的场合

SIZE	STEPS	HOLE SIZE	SHANK DIA	OVERALL LENGTH	HSS ORDER #	HSS TIN ORDER #
4~12	9	4,5,6,7,8,9,10,11,12	6.35	65	3006-9412	3007-9412
4~20	13	4,5,6,7,8,9,10,11,12,14,16,18,20	6.35	75	3006-3420	3007-3420
4~30	14	4,6,8,10,12,14,16,18,20,22,24,26,28,30	6.35	81	3006-5430	3007-5430

Countersink Drill

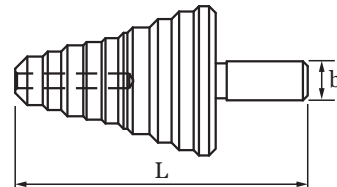
HSS Step Drill with interchan-geable center bits

合阶钻

3 and 4Flute

* Metric

* Sizes for all standard machine tables.
Safety-stop feature Prevents breaking the machine-table slot. Threads stop one Short of going threads T nut to prevent a stud from jacking the nut out of the table.



SIZE	FLUTE	SETPS	SHANK DIA	OVERALL LENGTH	HSS ORDER #	HSS TIN ORDER #
2.5~32	3	8	10	77	3010-2532	3011-2532
2.5~38	3	12	10	98	3010-2538	3011-2538
6.3~30.5	4	8	12	85	3010-6330	3011-6330
6.3~38	3	11	10	98	3010-6338	3011-6338
6.3~26.57	4	9	12	92	3010-6326	3011-6326
6.3~32	3	7	10	77	3010-6332	3011-6332
6.3~36	4	11	12	85	3010-6336	3011-6336
9~36	4	10	12	85	3010-6396	3011-6396
6.3~37	4	11	12	100	3010-6337	3011-6337

H.s.s Center Bits



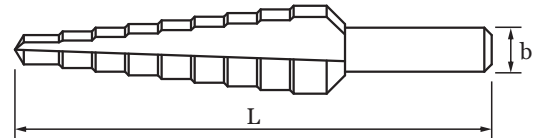
HSS ORDER #	HSS TIN ORDER #	HSS ORDER #	HSS TIN ORDER #
3015-0025	3016-0025	3015-0070	3016-0070

HSS STEP DRILL

合阶钻

2Flute

- * Two Flute
- * Sizes for all standard machine tables. Safety-stop feature Prevents breaking the machine-table slot. Threads stop one Short of going threads T nut to prevent a stud from jacking the nut out of the table.



SIZE	STEPS	SHANK DIA	OVERALL LENGTH	HSS ORDER #	HSS TIN ORDER #	HSS ORDER #	HSS TIN ORDER #	HSS ORDER #	HSS TIN ORDER #
3/16~1/2	6	1/4	3-3/8	3004-3162	3005-3162			3006-3162	3007-3162
1/8~1/2	13	1/4	3-1/16	3004-1812	3005-1812	3008-1812	3009-1812	3006-1812	3007-1812
1/4~3/4	9	3/8	2-1/2	3004-1434	3005-1434	3008-1434	3009-1434	3006-1434	3007-1434
3/16~7/8	12	3/8	3	3004-3178	3005-3178	3008-3178	3009-3178		
1/4~1	10	1/2	3-3/8	3004-1410	3005-1410				
1/4~1-3/8	9	11/32	2-1/2	3004-1413	3005-1413	3008-1413	3009-1413		
1/4~7/8	11	3/8	2-3/4	3004-1478	3005-1478				
9/16~1	8	3/8	2-7/16	3004-9610	3005-9610	3008-9610	3009-9610		
13/16~1-3/8	10	3/8	2-3/4	3004-1316	3005-1316	3008-1316	3009-1316		

Hss Step Drills Sets

套装阶梯钻



3PCS/SET STEP DRILL INCLUDES:

4~12mm----1PCS
6~20mm----1PCS
6~30mm----1PCS
Metal or Wooden BOX

UN-Coated ORDER No.	Tin-Coated ORDER No.
3020-0302	3021-0302

4~12mm----1PCS
4~20mm----1PCS
4~30mm----1PCS
Metal or Wooden BOX

UN-Coated ORDER No.	Tin-Coated ORDER No.
3020-0302	3021-0302

4~12mm----1PCS
4~20mm----1PCS
6~30mm----1PCS
Metal or Wooden BOX

UN-Coated ORDER No.	Tin-Coated ORDER No.
3020-4313	3021-4313



5PCS/SET STEP DRILL INCLUDES:

4~12mm----1PCS
4~20mm----1PCS
5~28mm----1PCS
4~30mm----1PCS
4~39mm----1PCS
Wooden BOX

UN-Coated ORDER No.	Tin-Coated ORDER No.
3020-0303	3021-0303

UN-Coated ORDER No.	Tin-Coated ORDER No.
3004-0500	3004-1500

Conical Drill

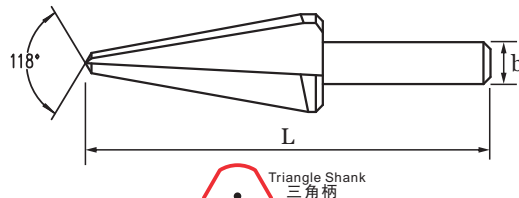
HSS Conical Drill

圆锥钻

2Flute

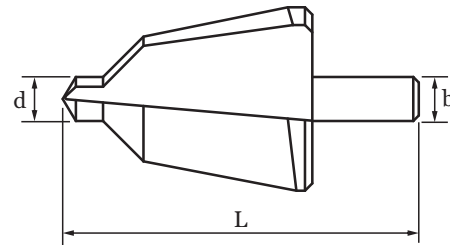
* Metric

* Sizes for all standard machine tables.
Safety-stop feature Prevents breaking the machine-table slot. Threads stop one Short of going threads T nut to prevent a stud from jacking the nut out of the table.



SIZE	SHANK mm	OVERALL LENGTH mm	HSS ORDER #	HSS TIN ORDER #	HSS ORDER #	HSS TIN ORDER #
3~14	6	58	3100-0314	3101-0314	3102-0314	3103-0314
4~30.5	12	102	3100-0430	3101-0430		
6~20	8	63	3100-0620	3101-0620		
3~22.5	8	73	3100-0322	3101-0322		
3~31	10	102	3100-0331	3101-0331		
6~25.4	9	78	3100-0625	3101-0625		
5~20	8	71	3100-0520	3101-0520		
5~30	8	91	3100-0530	3101-0530		
8~20	8	63	3100-0820	3101-0820	3102-0820	3103-0820
16~30.5	12	77	3100-1630	3101-1630		
25~40	10	89	3100-2540	3101-2540		
35~50	12	97	3100-3550	3101-3550		
40~61	13	103	3100-4061	3101-4061		
5~25.4	10	87	3100-0524	3101-0524		
5~22.5	8	79	3100-0522	3101-0522		
5~31	9	103	3100-0522	3101-0531		

HSS Conical Trangle Shank Drill



SIZE	SHANK DIA	SHANK LENGTH	OVERALL LENGTH	UN-Coatde ORDER No.	TIN-Coated ORDER No.
26~40	12	30	92	3104-2640	3105-2640
25~40	12	30	92	3104-2545	3105-2545
35~50	12	30	95	3104-3555	3105-3555
36~50	12	30	95	3104-3650	3105-3650
26~40	12	25	85	3104-2641	3105-2641
36~50	12	25	88	3104-3651	3105-3651
46~60	13	25	91	3104-4660	3105-4660

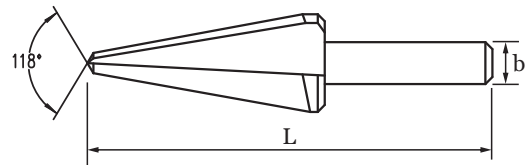
HSS Conical Drill

圆锥钻

2Flute

* Two Flute

HSS Conical Drill bore clean holes in pipes, sheet metal & synthetic materials. For use in both hand and machine operations - such as auto body rust proofing & knockout punches.



SIZE	SHANK DIA	OVERALL LENGTH	UN-Coated ORDER No.	TIN-Coated ORDER No.
1/8~1/2	1/4	2	3120-1812	3121-1812
1/4~3/4	3/8	2-1/4	3120-1434	3121-1434
3/16~1/2	1/2	3	3120-3161	3121-3161
1/8~3/8	1/2	2-1/4	3120-1838	3121-1838
3/8~7/8	3/8	2-1/4	3120-3878	3121-3878

Hss Conical Drill Sets

高速钢套装伞钻

3PCS/SET CONICAL DRILL INCLUDES:

3-14mm-----1PCS	3-14mm-----1PCS
8-20mm-----1PCS	5-20mm-----1PCS
6-30mm-----1PCS	16-30.5mm-1PCS

In metal or wooden BOX case

Tin-Coated/uncoated type both available

We can produce matching according to the requirement of the customer

- 木盒或者铁盒包装
- 镀钛或者非镀钛形式均可
- 我们能根据客户的需求生产配套



SIZE		UN-Coated ORDER No.	TIN-Coated ORDER No.
3PCS/SET WOODEN BOX	3-14,8-20,6-30	3110-3001	3110-3002
3PCS/SET METAL BOX	3-14,8-20,6-30	3111-3001	3111-3002
3PCS/SET WOODEN BOX	3-14,5-20,16-30.5	3110-3003	3110-3003
3PCS/SET METAL BOX	3-14,5-20,16-30.5	3111-3003	3111-3003

Counterbore Drill

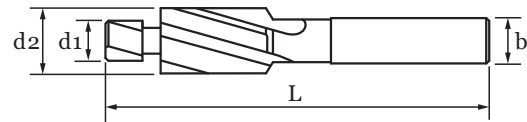
HSS Counterbore

沉孔刀

DIN 373

3Flute

*Use for enlarging holes for the socket heads of cap screws
*features an oversized solid pilot
*Straight Shank



SIZE	PILOT DIA d1	CUTTER DIA d2	SHANK DIA b	OVERALL LENGTH L	Milled UN-Coated ORDER No.	Milled Tin-Coated ORDER No.	Ground UN-Coated ORDER No.	Ground Tin-Coated ORDER No.
M3	3.2	6.0	5.0	71	3600-0030	3600-1030	3600-2030	3600-3030
M3	3.4	6.0	5.0	71	3600-0031	3600-1031	3600-2031	3600-3031
M3.5	3.7	6.5	5.0	71	3600-0035	3600-1035	3600-2035	3600-3035
M4	4.3	8.0	5.0	71	3600-0040	3600-1040	3600-2040	3600-3040
M4	4.5	8.0	5.0	71	3600-0041	3600-1041	3600-2041	3600-3041
M4.5	4.8	8.0	8.0	71	3600-0045	3600-1045	3600-2045	3600-3045
M5	5.3	10	8.0	80	3600-0050	3600-1050	3600-2050	3600-3050
M5	5.5	10	8.0	80	3600-0051	3600-1050	3600-2051	3600-3050
M6	6.4	11	8.0	80	3600-0060	3600-1060	3600-2060	3600-3060
M6	6.6	11	8.0	80	3600-0061	3600-1061	3600-2061	3600-3061
M8	8.4	15	12.5	100	3600-0080	3600-1080	3600-2080	3600-3080
M8	9	15	12.5	100	3600-0081	3600-1081	3600-2081	3600-3081
M10	10.5	18	12.5	100	3600-0100	3600-1100	3600-2100	3600-3100
M10	11	18	12.5	100	3600-0101	3600-1101	3600-2101	3600-3101
M12	13	20	12.5	100	3600-0120	3600-1120	3600-2120	3600-3120
M12	13.5	20	12.5	100	3600-0121	3600-1121	3600-2121	3600-3121
M14	15	24	12.5	100	3600-0140	3600-1140		
M14	16	24	12.5	100	3600-0141	3600-1141		
M16	17	26	12.5	100	3600-0160	3600-1160		
M16	18	26	12.5	100	3600-0161	3600-1161		
M18	19	30	12.5	100	3600-0180	3600-1180		
M20	21	33	12.5	125	3600-0200	3600-1200		
M20	22	33	12.5	125	3600-0201	3600-1201		
M24	25.4	40	16	254	3600-0240	3600-1240		

HSS Counterbore

沉孔刀

3Flute

*Use for enlarging holes for the socket heads of cap screws
*features an oversized solid pilot
*Straight Shank



SIZE	PILOT DIA d1	CUTTER DIA d2	SHANK DIA b	OVERALL LENGTH L	ORDER #	Tin ORDER #
5#	.141	.221	3/16	3	3603-0005	3603-1005
6#	.150	.242	7/32	3	3603-0006	3603-1006
8#	11/64	19/64	1/4	3	3603-0008	3603-1008
10#	13/64	21/64	9/32	3-1/2	3603-0010	3603-1010
1/4	9/32	13/32	5/16	5	3603-0014	3603-1014
5/16	11/32	1/2	3/8	5	3603-0051	3603-1051
3/8	13/32	19/32	1/2	6	3603-0038	3603-1038
7/16	15/32	11/16	1/2	7	3603-0071	3603-1071
1/2	17/32	25/32	1/2	7-1/2	3603-0012	3603-1012
1/2	9/16	13/16	1/2	7-1/2	3603-0014	3603-1014
5/8	21/32	31/32	5/8	7-1/2	3603-0013	3603-1013
5/8	11/16	1	3/4	7-1/2	3603-0015	3603-1015
3/4	13/16	1-3/16	1	8	3603-0058	3603-1058
7/8	15/16	1-3/8	1	8	3603-0034	3603-1034
1	1-1/16	1-9/16	1	10	3603-0100	3603-1100



SIZE	PILOT DIA d1	CUTTER DIA d2	SHANK DIA b	OVERALL LENGTH L	ORDER #	Tin ORDER #
1/4	9/32	13/32	MT2	5-3/4	3604-0014	3604-1014
5/16	11/32	1/2	MT2	6	3604-0051	3604-1051
3/8	13/32	19/32	MT2	6-1/2	3604-0038	3604-1038
7/16	15/32	11/16	MT2	7	3604-0071	3604-1071
1/2	17/32	25/32	MT2	7-1/4	3604-0012	3604-1012
5/8	21/32	31/32	MT3	7-1/2	3604-0058	3604-1058
5/8	11/16	1	MT3	7-1/2	3604-0059	3604-1059
3/4	13/16	1-3/16	MT3	9	3604-0034	3604-1034
7/8	15/16	1-3/8	MT3	9	3604-0078	3604-1078
1	1-1/16	1-9/16	MT3	10	3604-0100	3604-1100

Counterbore Drill

Hss Counterbores Sets

直柄带导柱套装平底铰钻



Counterbore Sets

INCLUDES:

6Pcs/set: M3, M4, M5, M6, M8, M10

7Pcs/set: M3, M4, M5, M6, M8, M10, M12

8Pcs/set: M3, M4, M5, M6, M8, M10, M12, M14

PACKAGE:

6Pcs/set: Metal case

7Pcs/set: Metal case

8Pcs/set: Wooden case

Model	SET	UN-Coated ORDER No	Tin-Coated ORDER No
Mills	6Pcs	3600-0186	3600-1186
	7Pcs	3600-0187	3600-1187
	8Pcs	3600-0188	3600-1188
Ground	6Pcs	3600-0286	3600-1286
	7Pcs	3600-0287	3600-1287



Counterbore Sets

INCLUDES:

6Pcs/set: 1/4, 5/16, 3/8, 1/2, 5/8, 3/4

7Pcs/set: 6#, 8#, 10#, 1/4, 5/16, 3/8, 1/2

9Pcs/set: 6#, 8#, 10#, 12#, 1/4, 5/16, 3/8, 7/16, 1/2

PACKAGE:

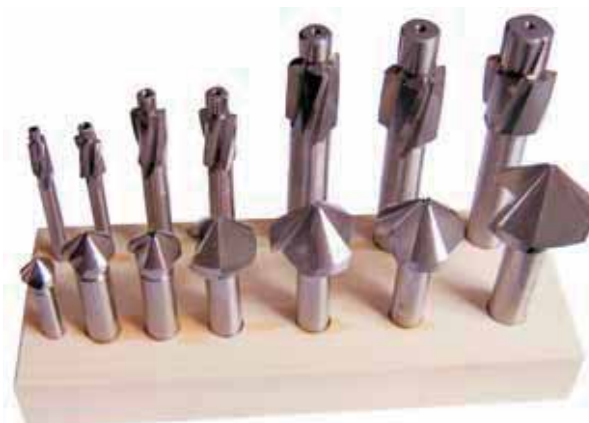
6Pcs/set: Wooden case

7Pcs/set: Wooden case

9Pcs/set: Wooden case

SET	UN-Coated ORDER No	Tin-Coated ORDER No
6Pcs	3603-0186	3603-1186
7Pcs	3603-0187	3603-1187
9Pcs*	3605-0909	3605-1909

*Long flute for socket head cap screws



Counterbore & Countersink Sets

14Pcs/Set INCLUDES:

7Pcs: Counterbore Bore : M3, M4, M5, M6, M8, M10, M12

7Pcs: Countersink 3Flute 90° : 10mm--1pcs

15mm--2pcs

20mm--1pcs

25mm--2pcs

30mm--1pcs

PACKAGE:

UN-Coated: 3604-0001

Tin-Coated: 3604-0002

7Pcs: Counterbore Bore : M3, M4, M5, M6, M8, M10, M12

7Pcs: Countersink 0Flute 90° : 5-10mm--1pcs

10-15mm--2pcs

15-20mm--1pcs

20-25mm--2pcs

25-30mm--1pcs

PACKAGE:

UN-Coated: 3604-0003

Tin-Coated: 3604-0004

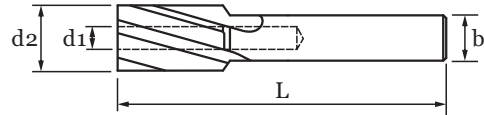
Counterbore Drill

HSS Interchangeable Pilot Counterbore

可换导柱沉孔刀

3Flute

*Use for enlarging holes for the socket heads of cap screws
*features an oversized solid pilot
*Straight and Taper Shank



SIZE	FLUTE	OVERALL LENGTH L	HOLE SIZE d1	STRAIGHT SHANK b	M.T. b	STRAIGHT ORDER #	TAPER ORDER #
3/16	3	3	3/32	15/64 × 3-1/16	1	3606-0002	3606-1002
13/64	3	3	3/32	15/64 × 3-1/16	1	3606-0004	3606-1004
7/32	3	3	3/32	15/64 × 3-1/16	1	3606-0006	3606-1006
15/64	3	3-13/16	3/32	15/64 × 3-1/16	1	3606-0008	3606-1008
1/4*	3	3-13/16	3/32	15/64 × 3-1/16	1	3606-0010	3606-1010
17/64	3	3-13/16	3/32	17/64 × 3-1/16	1	3606-0012	3606-1012
9/32	3	3-13/16	3/32	17/64 × 3-1/16	1	3606-0014	3606-1014
19/64	3	3-13/16	3/32	17/64 × 3-1/16	1	3606-0016	3606-1016
5/16*	3	3-13/16	3/32	19/64 × 3-1/16	1	3606-0018	3606-1018
21/64	3	3-13/16	3/32	5/16 × 3-1/16	1	3606-0020	3606-1020
11/32	3	3-13/16	3/32	5/16 × 3-1/16	1	3606-0022	3606-1022
23/64	3	4-1/16	5/32	5/16 × 3-1/16	1	3606-0024	3606-1024
3/8*	3	4-1/16	5/32	5/16 × 3-1/16	1	3606-0026	3606-1026
25/64	3	4-1/16	5/32	3/8 × 3-1/16	1	3606-0028	3606-1028
13/32	3	4-1/16	5/32	3/8 × 3-1/16	1	3606-0030	3606-1030
27/64	3	4-1/16	5/32	3/8 × 3-1/16	1	3606-0032	3606-1032
7/16*	3	4-1/16	5/32	3/8 × 3-1/16	1	3606-0034	3606-1034
29/64	3	4-5/16	3/16	7/16 × 3-1/16	1	3606-0036	3606-1036
15/32	3	4-5/16	3/16	7/16 × 3-1/16	1	3606-0038	3606-1038
31/64	3	4-5/16	3/16	7/16 × 3-1/16	1	3606-0040	3606-1040
1/2*	3	4-5/16	3/16	7/16 × 3-1/16	1	3606-0042	3606-1042
33/64	3	4-5/16	3/16	1/2 × 3-1/16	1	3606-0044	3606-1044
17/32	3	4-5/16	3/16	1/2 × 3-1/16	1	3606-0046	3606-1046
35/64	3	4-5/16	3/16	1/2 × 3-1/16	1	3606-0048	3606-1048
9/16*	3	4-5/16	3/16	1/2 × 3-1/16	1	3606-0050	3606-1050
37/64	3	5-1/8	3/16	1/2 × 3-7/8	2	3606-0052	3606-1052
19/32	3	5-1/8	3/16	1/2 × 3-7/8	2	3606-0054	3606-1054
39/64	3	5-1/8	3/16	1/2 × 3-7/8	2	3606-0056	3606-1056
5/8*	3	5-1/8	3/16	1/2 × 3-7/8	2	3606-0058	3606-1058
41/64	3	5-1/8	3/16	1/2 × 3-7/8	2	3606-0060	3606-1060
21/32	3	5-1/8	3/16	1/2 × 3-7/8	2	3606-0062	3606-1062
43/64	3	5-1/8	3/16	1/2 × 3-7/8	2	3606-0064	3606-1064
11/16*	3	5-3/8	1/4	1/2 × 3-7/8	2	3606-0066	3606-1066
45/64	3	5-3/8	1/4	1/2 × 3-7/8	2	3606-0068	3606-1068
23/32	3	5-3/8	1/4	1/2 × 3-7/8	2	3606-0070	3606-1070
47/64	3	5-3/8	1/4	1/2 × 3-7/8	2	3606-0072	3606-1072
3/4*	3	5-3/8	1/4	5/8 × 3-7/8	2	3606-0074	3606-1074
49/64	3	5-3/8	1/4	5/8 × 3-7/8	2	3606-0076	3606-1076
25/32	3	5-3/8	1/4	5/8 × 3-7/8	2	3606-0078	3606-1078
51/64	3	5-3/8	1/4	5/8 × 3-7/8	2	3606-0080	3606-1080
13/16*	3	5-3/8	1/4	3/4 × 3-7/8	2	3606-0082	3606-1082
53/64	3	5-3/8	1/4	3/4 × 3-7/8	2	3606-0084	3606-1084
27/32	3	5-3/8	1/4	3/4 × 3-7/8	2	3606-0086	3606-1086
55/64	3	5-3/8	1/4	3/4 × 3-7/8	2	3606-0088	3606-1088
7/8*	3	6-1/8	1/4	3/4 × 4-5/8	2	3606-0090	3606-1090
57/64	3	6-1/8	1/4	3/4 × 4-5/8	2	3606-0092	3606-1092
29/32	3	6-1/8	1/4	3/4 × 4-5/8	2	3606-0094	3606-1094
59/64	3	6-1/8	1/4	3/4 × 4-5/8	3	3606-0096	3606-1096
15/16*	3	6-3/8	1/4	3/4 × 4-5/8	3	3606-0098	3606-1098
61/64	3	6-3/8	5/16	3/4 × 4-5/8	3	3606-0100	3606-1100
31/32	3	6-3/8	5/16	3/4 × 4-5/8	3	3606-0102	3606-1102
63/64	3	6-3/8	5/16	3/4 × 4-5/8	3	3606-0104	3606-1104
1*	3	6-3/8	5/16	3/4 × 4-5/8	3	3606-0106	3606-1106
1-1/16	3	6-3/8	5/16	1 × 4-5/8	3	3606-0108	3606-1108
1-1/8	3	6-3/8	5/16	1 × 4-5/8	3	3606-0110	3606-1110

Counterbore Drill

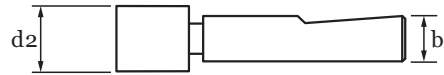
SIZE	FLUTE	OVERALL L	HOLE d1	STRAIGHT SHANK b	M.T. b	STRAIGHT ORDER #	TAPER ORDER #
1-3/16	3	6-5/8	3/8	1×4-5/8	3	3606-0112	3606-1112
1-1/4	5	6-5/8	3/8	1×4-5/8	3	3606-0114	3606-1114
1-5/16	5	6-5/8	3/8	1×4-5/8	3	3606-0116	3606-1116
1-3/8	5	6-5/8	3/8	1×4-5/8	3	3606-0118	3606-1118
1-7/16	5	7-7/8	3/8	1-1/4×5-7/8	4	3606-0120	3606-1120
1-1/2	5	7-7/8	3/8	1-1/4×5-7/8	4	3606-0122	3606-1122
1-9/16	5	8-1/8	7/16	1-1/4×5-7/8	4	3606-0124	3606-1124
1-5/8	5	8-1/8	7/16	1-1/4×5-7/8	4	3606-0126	3606-1126
1-11/16	5	8-1/8	7/16	1-1/4×5-7/8	4	3606-0128	3606-1128
1-3/4	5	8-1/8	7/16	1-1/4×5-7/8	4	3606-0130	3606-1130
1-13/16	5	8-1/8	7/16	1-1/2×5-7/8	4	3606-0132	3606-1132
1-7/8	5	8-1/8	7/16	1-1/2×5-7/8	4	3606-0134	3606-1134
1-15/16	5	8-1/8	7/16	1-1/2×5-7/8	4	3606-0136	3606-1136
2	5	8-3/8	1/2	1-1/2×5-7/8	4	3606-0138	3606-1138
2-1/16	5	8-3/8	1/2	-	5		3606-1140
2-1/8	5	9-7/8	1/2	-	5		3606-1142
2-3/16	5	9-7/8	1/2	-	5		3606-1144
2-1/4	5	9-7/8	1/2	-	5		3606-1146
2-5/16	5	9-7/8	1/2	-	5		3606-1148
2-3/8	5	9-7/8	1/2	-	5		3606-1150
2-7/16	5	9-7/8	1/2	-	5		3606-1152
2-1/2	5	9-7/8	1/2	-	5		3606-1154
2-9/16	5	9-7/8	1/2	-	5		3606-1156
2-5/8	5	9-7/8	1/2	-	5		3606-1158
2-3/4	5	9-7/8	1/2	-	5		3606-1160
2-7/8	5	9-7/8	1/2	-	5		3606-1162
3	5	9-7/8	1/2	-	5		3606-1164

Counterbore Drill

Pilot

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*Use for Interchangeable Counterbore



PILOT SIZE	SHANK SIZE								
	3/32	1/8	5/32	3/16	1/4	5/16	3/8	7/16	1/2
1/8	3610-0002*	3610-0020							
5/32	3610-0004*	3610-0022	3610-0048						
3/16	3610-0006	3610-0024	3610-0050*	3610-0071					
7/32	3610-0008*	3610-0026	3610-0052*	3610-0072	3610-0114				
1/4	3610-0010*	3610-0028	3610-0054*	3610-0074*	3610-0116				
9/32	3610-0012	3610-0030	3610-0056*	3610-0076	3610-0118				
5/16	3610-0014	3610-0032	3610-0058*	3610-0078*	3610-0120*	3610-0155			
11/32	3610-0016	3610-0034	3610-0060	3610-0080	3610-0122	3610-0157			
23/64	3610-0017	3610-0035	3610-0061	3610-0081	3610-0123				
3/8	3610-0018	3610-0036	3610-0062	3610-0082*	3610-0124*	3610-0156*			
13/32		3610-0038	3610-0064	3610-0084	3610-0126	3610-0158			
7/16		3610-0040	3610-0066	3610-0086*	3610-0128*	3610-0160*	3610-0200	3610-0248	3610-0300
15/32		3610-0042	3610-0068	3610-0088	3610-0130	3610-0162	3610-0202	3610-0250	3610-0302
1/2		3610-0044	3610-0070	3610-0090*	3610-0132*	3610-0164*	3610-0204	3610-0252	3610-0304
17/32		3610-0045			3610-0133	3610-0165			
9/16		3610-0046		3610-0092	3610-0134*	3610-0166*	3610-0206	3610-0254	3610-0306
19/32				3610-0094	3610-0136	3610-0168	3610-0208	3610-0256	3610-0308
5/8				3610-0096	3610-0138*	3610-0170*	3610-0210	3610-0258	3610-0310
21/32				3610-0098	3610-0140	3610-0172	3610-0212	3610-0260	3610-0312
11/16				3610-0100	3610-0142	3610-0174	3610-0214	3610-0262	3610-0314
23/32				3610-0102	3610-0144	3610-0176	3610-0216	3610-0264	3610-0316
3/4				3610-0104	3610-0146	3610-0178*	3610-0218	3610-0266	3610-0318
25/32				3610-0106	3610-0148	3610-0180	3610-0220	3610-0268	3610-0320
13/16				3610-0108	3610-0150	3610-0182	3610-0222	3610-0270	3610-0322
27/32				3610-0110	3610-0152	3610-0184	3610-0224	3610-0272	3610-0324
7/8				3610-0112	3610-0154	3610-0186	3610-0226	3610-0274	3610-0326
29/32						3610-0188	3610-0228	3610-0276	3610-0328
15/16						3610-0190	3610-0230	3610-0278	3610-0330
31/32						3610-0192	3610-0232	3610-0280	3610-0332
1						3610-0194	3610-0234	3610-0282	3610-0334
1-1/32							3610-0235		
1-1/16						3610-0196	3610-0236	3610-0284	3610-0336
1-3/32									
1-1/8						3610-0198	3610-0238	3610-0286	3610-0338
1-5/32									
1-3/16							3610-0240	3610-0288	3610-0340
1-7/32									
1-1/4							3610-0242	3610-0290	3610-0342
1-5/16							3610-0244	3610-0292	3610-0344
1-3/8							3610-0246	3610-0294	3610-0346
1-13/32									
1-7/16								3610-0296	3610-0348
1-1/2								3610-0298	3610-0350
1-9/16									3610-0352
1-5/8									3610-0354
1-11/16									3610-0356
1-3/4									3610-0358
1-13/16									3610-0360
1-7/8									3610-0362
1-15/16									3610-0364
2									3610-0366

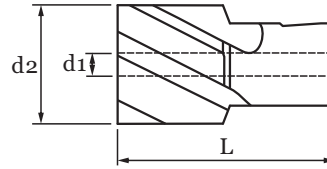
加粗字体为特殊型定做产品。

Counterbore Drill

Pilot

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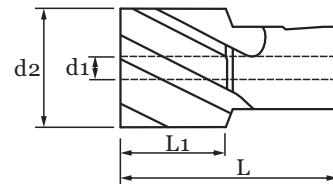
*Use for Interchangeable Counterbore



SIZE d2	HOLE SIZE d1	OVERALL LENGTH L	RANGE OF PILOT SIZE	ORDER #	Tin ORDER #
1/2	3/16	4-5/16	1/4~7/16	3607-0002	3607-1002
17/32	3/16	4-5/16	1/4~15/32	3607-0004	3607-1004
9/16	3/16	4-5/16	1/4~1/2	3607-0006	3607-1006
19/32	3/16	5-1/8	1/4~17/32	3607-0008	3607-1008
5/8	3/16	5-1/8	1/4~9/16	3607-0010	3607-1010
21/32	3/16	5-1/8	1/4~19/32	3607-0012	3607-1012
11/16	3/16	5-1/8	1/4~5/8	3607-0014	3607-1014
23/32	1/4	5-3/8	5/16~21/32	3607-0016	3607-1016
3/4	1/4	5-3/8	5/16~11/16	3607-0018	3607-1018
25/32	1/4	5-3/8	5/16~23/32	3607-0020	3607-1020
13/16	1/4	5-3/8	5/16~3/4	3607-0022	3607-1022
27/32	1/4	5-3/8	5/16~25/32	3607-0024	3607-1024
7/8	1/4	5-3/8	5/16~13/16	3607-0026	3607-1026
15/16	1/4	6-3/8	5/16~7/8	3607-0028	3607-1028
1	5/16	6-3/8	3/8~15/16	3607-0030	3607-1030
1-1/16	5/16	6-3/8	3/8~1	3607-0032	3607-1032
1-1/8	5/16	6-3/8	3/8~1	3607-0034	3607-1034
1-3/16	5/16	6-3/8	3/8~1-1/8	3607-0036	3607-1036
1-1/4	3/8	6-5/8	7/16~1-3/16	3607-0038	3607-1038
1-5/16	3/8	6-5/8	7/16~1-1/4	3607-0040	3607-1040
1-3/8	3/8	6-5/8	7/16~1-5/16	3607-0042	3607-1042
1-7/16	3/8	7-7/8	7/16~1-3/8	3607-0044	3607-1044
1-1/2	3/8	7-7/8	7/16~1-7/16	3607-0046	3607-1046
1-5/8	7/16	8-1/8	1/2~1-9/16	3607-0048	3607-1048
1-7/8	7/16	8-1/8	1/2~1-11/16	3607-0050	3607-1050
2	1/2	8-3/8	9/16~15/16	3607-0054	3607-1054
2-1/8	1/2	9-7/8	9/16~2-1/16	3607-0056	3607-1056
2-1/4	1/2	9-7/8	9/16~2-3/16	3607-0058	3607-1058
2-1/2	1/2	9-7/8	9/16~2-7/16	3607-0060	3607-1060
2-3/4	1/2	9-7/8	9/16~2-11/16	3607-0062	3607-1062
3	1/2	9-7/8	9/16~2-15/16	3607-0064	3607-1064

Interchangeable Pilot Counterbore Short Series

短系列可换导柱沉孔刀



SIZE d2	HOLE SIZE d1	FLUTE LENGTH L1	OVERALL LENGTH L	UN-Coated ORDER No.	Tin-Coated ORDER No.
7.0	4	19	41	3614-0070	3614-1070
7.5	4	19	41	3614-0075	3614-1075
8.0	4	19	41	3614-0080	3614-1080
8.5	4	19	41	3614-0085	3614-1085
9.0	4	19	41	3614-0090	3614-1090
9.5	4	19	41	3614-0095	3614-1095
10.0	4	19	41	3614-0100	3614-1100
10.5	4	19	41	3614-0105	3614-1105
11.0	4	19	41	3614-0110	3614-1110
11.5	4	19	41	3614-0115	3614-1115
12.0	4	19	41	3614-0120	3614-1120
12.5	4	19	41	3614-0125	3614-1125
13.0	4	19	41	3614-0130	3614-1130
13.5	4	19	41	3614-0135	3614-1135
14.0	4	19	41	3614-0140	3614-1140
14.5	4	19	41	3614-0145	3614-1145
15.0	4	19	41	3614-0150	3614-1150
15.5	4	19	41	3614-0155	3614-1155
16.0	4	19	41	3614-0160	3614-1160
16.5	4	19	41	3614-0165	3614-1165
14.0	6	22	49	3614-0141	3614-1141
14.5	6	22	49	3614-0146	3614-1146
15.0	6	22	49	3614-0151	3614-1151
15.5	6	22	49	3614-0156	3614-1156
16.0	6	22	49	3614-0161	3614-1161
16.5	6	22	49	3614-0166	3614-1166
17.0	6	22	49	3614-0170	3614-1170
17.5	6	22	49	3614-0175	3614-1175
18.0	6	22	49	3614-0180	3614-1180
18.5	6	22	49	3614-0185	3614-1185
19.0	6	22	49	3614-0190	3614-1190
19.5	6	22	49	3614-0195	3614-1195
20.0	6	22	49	3614-0200	3614-1200
20.5	6	22	49	3614-0205	3614-1205
21.0	6	22	49	3614-0210	3614-1210
21.5	6	22	49	3614-0215	3614-1215
22.0	6	22	49	3614-0220	3614-1220
22.5	6	22	49	3614-0225	3614-1225
23.0	6	22	49	3614-0230	3614-1230
23.5	6	22	49	3614-0235	3614-1235
24.0	6	22	49	3614-0240	3614-1240
24.5	6	22	49	3614-0245	3614-1245
25.0	6	22	49	3614-0250	3614-1250
25.5	6	22	49	3614-0255	3614-1255
26.0	6	22	49	3614-0260	3614-1260
26.5	6	22	49	3614-0265	3614-1265
27.0	6	22	49	3614-0270	3614-1270
27.5	6	22	49	3614-0275	3614-1275
24.0	10	27	61	3614-0241	3614-1241
24.5	10	27	61	3614-0246	3614-1246
25.0	10	27	61	3614-0251	3614-1251

Counterbore Drill

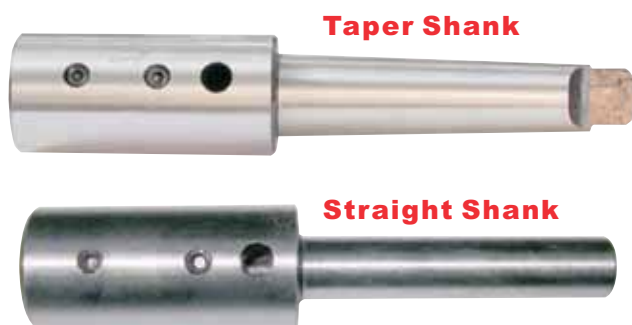
SIZE d2	HOLE SIZE d1	FLUTE LENGTH L1	OVERALL LENGTH L	UN-Coated ORDER No.	Tin-Coated ORDER No.
25.5	10	27	61	3614-0256	3614-1256
26.0	10	27	61	3614-0261	3614-1261
26.5	10	27	61	3614-0266	3614-1266
27.0	10	27	61	3614-0271	3614-1271
27.5	10	27	61	3614-0276	3614-1276
28.0	10	27	61	3614-0280	3614-1280
28.5	10	27	61	3614-0285	3614-1285
29.0	10	27	61	3614-0290	3614-1290
29.5	10	27	61	3614-0295	3614-1295
30.0	10	27	61	3614-0300	3614-1300
30.5	10	27	61	3614-0305	3614-1305
31.0	10	27	61	3614-0310	3614-1310
32.0	10	27	61	3614-0320	3614-1320
33.0	10	27	61	3614-0330	3614-1330
34.0	10	27	61	3614-0340	3614-1340
35.0	10	27	61	3614-0350	3614-1350
36.0	10	27	61	3614-0360	3614-1360
37.0	10	27	61	3614-0370	3614-1370
38.0	10	27	61	3614-0380	3614-1380
39.0	10	27	61	3614-0390	3614-1390
40.0	10	27	61	3614-0400	3614-1400
41.0	10	27	61	3614-0410	3614-1410
42.0	10	27	61	3614-0420	3614-1420
43.0	10	27	61	3614-0430	3614-1430
44.0	10	27	61	3614-0440	3614-1440
45.0	10	27	61	3614-0450	3614-1450
46.0	10	27	61	3614-0460	3614-1460
47.0	10	27	61	3614-0470	3614-1470
48.0	10	27	61	3614-0480	3614-1480
49.0	10	27	61	3614-0490	3614-1490
50.0	10	27	61	3614-0500	3614-1500
51.0	10	27	61	3614-0510	3614-1510
52.0	10	27	61	3614-0520	3614-1520
53.0	10	27	61	3614-0530	3614-1530
54.0	10	27	61	3614-0540	3614-1540
55.0	10	27	61	3614-0550	3614-1550
56.0	10	27	61	3614-0560	3614-1560
57.0	10	27	61	3614-0570	3614-1570
58.0	10	27	61	3614-0580	3614-1580
60.0	10	27	61	3614-0600	3614-1600
62.0	10	27	61	3614-0620	3614-1620
64.0	10	27	61	3614-0640	3614-1640
65.0	10	27	61	3614-0650	3614-1650
66.0	10	27	61	3614-0660	3614-1660

Interchangeable pilot counterbores Shank Holder

*For interchangeable pilots counterbores Short Series

*Straight shank & Taper shank Holder.

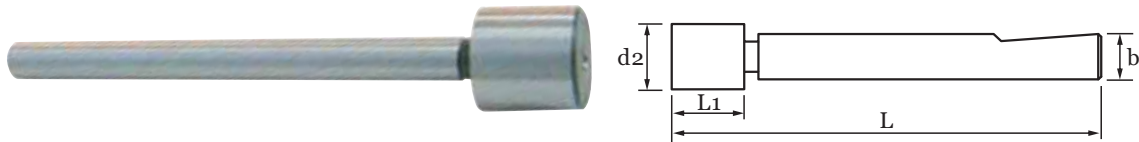
- 专为短系列可换导柱平底镗钻设计连接柄。
- 分直柄和锥柄两种形式，适合不同的设备使用。



SHANK Size	OVERALL LENGTH	HOLE DIA	ORDER No.
Φ10x50	82	10	3616-0010
Φ12x65	120	14	3616-0012
MT1	111	10	3616-0111
MT2	135	14	3616-0120
MT2	155	22	3616-0121
MT3	174	22	3616-0130
3/8	3-5/8	7/16	3622-0380

Pilot Counterbore long Series

加长导向柱



SIZE d2	SHANK DIA b	PILOT LENGTH L1	OVERALL LENGTH L	ORDER No.	SIZE d2	SHANK DIA b	PILOT LENGTH L1	OVERALL LENGTH L	ORDER No.
4.0	4	9	59	3615-0040	16.5	6	15	79	3615-0165
4.5	4	9	59	3615-0045	17.0	6	15	79	3615-0170
5.0	4	9	59	3615-0050	17.5	6	15	79	3615-0175
5.5	4	9	59	3615-0055	18.0	6	15	79	3615-0180
6.0	4	9	59	3615-0060	10.0	10	18	105	3615-0102
6.5	4	9	59	3615-0065	10.5	10	18	105	3615-0107
7.0	4	9	59	3615-0070	11.0	10	18	105	3615-0112
7.5	4	9	59	3615-0075	11.5	10	18	105	3615-0117
8.0	4	9	59	3615-0080	12.0	10	18	105	3615-0121
8.5	4	9	59	3615-0085	12.5	10	18	105	3615-0126
9.0	4	9	59	3615-0090	13.0	10	18	105	3615-0131
9.5	4	9	59	3615-0095	13.5	10	18	105	3615-0136
10.0	4	9	59	3615-0100	14.0	10	18	105	3615-0141
10.5	4	9	59	3615-0105	14.5	10	18	105	3615-0146
11.0	4	9	59	3615-0110	15.0	10	18	105	3615-0151
11.5	4	9	59	3615-0115	16.0	10	18	105	3615-0156
7.0	6	15	79	3615-0071	17.0	10	18	105	3615-0171
7.5	6	15	79	3615-0076	18.0	10	18	105	3615-0181
8.0	6	15	79	3615-0081	19.0	10	18	105	3615-0190
8.5	6	15	79	3615-0086	20.0	10	18	105	3615-0200
9.0	6	15	79	3615-0091	21.0	10	18	105	3615-0210
9.5	6	15	79	3615-0096	22.0	10	18	105	3615-0220
10.0	6	15	79	3615-0101	23.0	10	18	105	3615-0230
10.5	6	15	79	3615-0106	24.0	10	18	105	3615-0240
11.0	6	15	79	3615-0111	25.0	10	18	105	3615-0250
11.5	6	15	79	3615-0116	26.0	10	18	105	3615-0260
12.0	6	15	79	3615-0120	27.0	10	18	105	3615-0270
12.5	6	15	79	3615-0125	28.0	10	18	105	3615-0280
13.0	6	15	79	3615-0130	29.0	10	18	105	3615-0290
13.5	6	15	79	3615-0135	30.0	10	18	105	3615-0300
14.0	6	15	79	3615-0140	33.0	10	18	105	3615-0330
14.5	6	15	79	3615-0145	35.0	10	18	105	3615-0350
15.0	6	15	79	3615-0150	38.0	10	18	105	3615-0380
15.5	6	15	79	3615-0155	40.0	10	18	105	3615-0400
16.0	6	15	79	3615-0160					

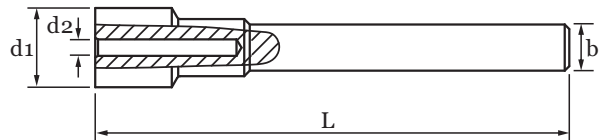
SIZE d2	SHANK DIA b	PILOT LENGTH L1	OVERALL LENGTH L	ORDER No.	SIZE d2	SHANK DIA b	PILOT LENGTH L1	OVERALL LENGTH L	ORDER No.
.187	5/32	3/8	2-1/4	3621-0020	5/16	5/32	3/8	2-1/4	3621-0034
.204	5/32	3/8	2-1/4	3621-0022	21/64	5/32	3/8	2-1/4	3621-0036
.213	5/32	3/8	2-1/4	3621-0024	11/32	5/32	3/8	2-1/4	3621-0038
.229	5/32	3/8	2-1/4	3621-0026	3/8	5/32	3/8	2-1/4	3621-0040
1/4	5/32	3/8	2-1/4	3621-0028	25/64	5/32	3/8	2-1/4	3621-0042
17/16	5/32	3/8	2-1/4	3621-0030	13/32	5/32	3/8	2-1/4	3621-0044
9/32	5/32	3/8	2-1/4	3621-0032	7/16	5/32	3/8	2-1/4	3621-0046

Counterbore Drill

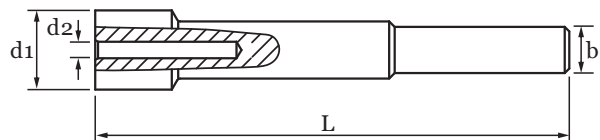
Aircraft Counterbore

航空平底铰钻

4Flute



SIZE d1	SHANK DIA b	HOLE SIZE d2	OVERALL LENGTH L	UN-Coated ORDER No.	Tin-Coated ORDER No.	SIZE d1	SHANK DIA b	HOLE SIZE d2	OVERALL LENGTH L	UN-Coated ORDER No.	Tin-Coated ORDER No.
3/16	7/32	3/32	4	3608-0316	3608-1316	11/16	1/2	3/16	5-3/8	3608-0111	3608-1111
7/32	7/32	3/32	4	3608-0732	3608-1732	23/32	1/2	3/16	5-3/8	3608-0233	3608-1233
1/4	15/64	3/32	4	3608-0140	3608-1140	3/4	1/2	3/16	5-3/8	3608-0340	3608-1340
9/32	17/64	3/32	4	3608-0932	3608-1932	25/32	1/2	3/16	5-3/8	3608-0253	3608-1253
5/16	19/64	3/32	4	3608-0516	3608-1516	13/16	1/2	3/16	5-3/8	3608-0131	3608-1131
11/32	5/16	3/32	4	3608-0113	3608-1113	7/8	1/2	3/16	5-1/8	3608-0780	3608-1780
3/8	5/16	3/32	4	3608-0380	3608-1380	15/16	1/2	3/16	5-3/8	3608-0151	3608-1151
13/32	3/8	1/8	4	3608-0133	3608-1133	1	1/2	3/16	5-3/8	3608-0200	3608-1200
7/16	3/8	1/8	4	3608-0716	3608-1716	1-1/16	1/2	3/16	5-1/2	3608-0216	3608-1216
15/32	7/16	1/8	4-1/4	3608-0153	3608-1153	1-1/8	1/2	3/16	5-1/2	3608-0218	3608-1218
1/2	7/16	1/8	4-1/4	3608-0120	3608-1120	1-3/16	1/2	3/16	5-1/2	3608-0236	3608-1236
17/32	1/2	1/8	4-1/4	3608-0173	3608-1173	1-1/4	1/2	1/4	5-1/2	3608-0214	3608-1214
9/16	1/2	1/8	4-1/4	3608-0916	3608-1916	1-5/16	1/2	1/4	5-1/2	3608-0251	3608-1251
19/32	1/2	1/8	4-1/4	3608-0193	3608-1193	1-3/8	1/2	1/4	5-1/2	3608-0238	3608-1238
5/8	1/2	1/8	4-1/4	3608-0580	3608-1580	1-7/16	1/2	1/4	5-1/2	3608-0271	3608-1271
21/32	1/2	3/16	5-3/8	3608-0213	3608-1213	1-1/2	1/2	1/4	5-1/2	3608-0212	3608-1212



SIZE d1	SHANK DIA b	HOLE SIZE d2	OVERALL LENGTH L	UN-Coated ORDER No.	Tin-Coated ORDER No.	SIZE d1	SHANK DIA b	HOLE SIZE d2	OVERALL LENGTH L	UN-Coated ORDER No.	Tin-Coated ORDER No.
1/4	1/4	3/32	2-3/8	3609-0140	3609-1140	23/32	1/4	3/16	3-1/8	3609-0233	3608-1233
9/32	1/4	3/32	2-3/8	3609-0932	3609-1932	3/4	1/4	3/16	3-1/8	3609-0340	3608-1340
5/16	1/4	3/32	2-3/8	3609-0516	3609-1516	25/32	1/4	3/16	3-1/8	3609-0253	3608-1253
11/32	1/4	3/32	2-3/8	3609-0113	3609-1113	13/16	1/4	3/16	3-1/8	3609-0131	3608-1131
3/8	1/4	3/32	2-3/8	3609-0380	3609-1380	27/32	1/4	3/16	3-1/8	3609-0273	3608-1273
13/32	1/4	1/8	2-13/16	3609-0133	3609-1133	7/8	1/4	3/16	3-1/8	3609-0780	3608-1780
7/16	1/4	1/8	2-13/16	3609-0716	3609-1716	15/16	1/4	3/16	3-1/8	3609-0151	3608-1151
15/32	1/4	1/8	2-13/16	3609-0153	3609-1153	31/32	1/4	3/16	3-1/8	3609-0313	3608-1313
1/2	1/4	1/8	2-13/16	3609-0120	3609-1120	1	1/2	3/16	3-1/8	3609-0200	3608-1200
17/32	1/4	1/8	2-13/16	3609-0173	3609-1173	1-1/16	1/2	3/16	4	3609-0216	3608-1216
9/16	1/4	1/8	2-13/16	3609-0916	3609-1916	1-1/8	1/2	3/16	4	3609-0218	3608-1218
19/32	1/4	1/8	2-13/16	3609-0193	3609-1193	1-1/4	1/2	3/16	4	3609-0214	3608-1214
5/8	1/4	1/8	2-13/16	3609-0580	3609-1580	1-3/8	1/2	3/16	4	3609-0238	3608-1238
21/32	1/4	3/16	3-1/8	3609-0213	3609-1213	1-1/2	1/2	3/16	4	3609-0212	3608-1212
11/16	1/4	3/16	3-1/8	3609-0111	3608-1111						

Interchangeable Pilot Sets

套装可换导柱平底铰钻



39Pcs/Set Inch 3Flute Counterbore

39pcs/set: Include

13Pcs Counterbores 1/4~1

26Pcs pilots: 1/8, 5/32, 3/16, 1/4 with 3/32 shank

3/16, 7/32, 1/4, 9/32, 5/16 with 5/32 shank

1/4, 5/16, 3/8, 7/16, 1/2 with 3/16 shank

5/16, 3/8, 7/16, 1/2, 9/16, 5/8 with 1/4 shank

3/8, 7/16, 1/2, 9/16, 5/8, 3/4, with 5/16 shank

Packed in wooden Case

UN-Coated Order No. 3606-0391

Tin-Coated Order No. 3606-1391

Taper Shank:

UN-Coated Order No. 3607-0391

Tin-Coated Order No. 3607-1391

21pcs/set Included one each of following:

14Pcs Pilots: 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 10.5mm

6Pcs Counterbore: 8.5, 9.5, 10.5, 11.5, 13.5, 16.5mm

1 Pcs Straight Shank or Taper Holder:



ORDER No. 3617-0121 (Straight Shank)

ORDER No. 3617-0221 (MT1 Shank)

21pcs/set Included one each of following:

14Pcs Pilots: 7, 7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 13, 14, 15mm

6Pcs Counterbore: 14.5, 16.5, 18.5, 20.5, 22.5, 24.5mm

1 Pcs MT2 Taper Shank Holder: 3616-0120



ORDER No. 3617-0421 (Taper Shank)

22pcs/set Included one each of following:

14Pcs Pilots: 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25mm

7Pcs Counterbore: 26, 28, 30, 32, 33, 34, 36mm

1 Pcs MT2 or MT3 Taper Shank Holder:



MT2 ORDER No. 3617-0222 (Taper Shank)

MT3 ORDER No. 3617-0223 (Taper Shank)

21pcs/set Included one each of following:

14Pcs Pilots: 0.187~7/16

6Pcs Counterbore: 5/16~5/8

1 Pcs Straight Shank or Taper Shank Holder

ORDER No. 3620-0121 (Straight Shank)

ORDER No. 3620-0221 (MT2 Shank)

Mills Cutter

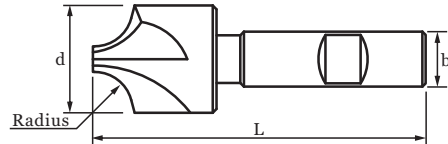
HSS Rounding End Mill

圆端刀

4Flute

*Relieved form can be resharpened many times without changing form.

*Used in milling rounded corners.



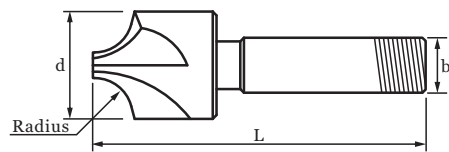
RADIUS SIZE	SHANK b	CUTTER d	OVERALL LENGTH L	UN-Coated ORDER No.	Tin-Coated ORDER No.
1/32	3/8	3/8	2-1/2	3700-0002	3700-1002
3/64	3/8	7/16	2-1/2	3700-0004	3700-1004
1/16	3/8	7/16	2-1/2	3700-0006	3700-1006
5/64	3/8	1/2	2-1/2	3700-0008	3700-1008
3/32	3/8	1/2	2-1/2	3700-0010	3700-1010
3/32	1/2	1/2	2-1/2	3700-0012	3700-1012
7/64	3/8	5/8	2-1/2	3700-0014	3700-1014
1/8	1/2	5/8	3	3700-0016	3700-1016
1/8	3/8	5/8	3	3700-0018	3700-1018
1/8	3/4	5/8	3	3700-0020	3700-1020
9/64	1/2	3/4	3	3700-0022	3700-1022
5/32	1/2	3/4	3	3700-0024	3700-1024
11/64	1/2	3/4	3	3700-0026	3700-1026
3/16	1/2	7/8	2-15/16	3700-0028	3700-1028
3/16	1/2	7/8	3	3700-0030	3700-1030
3/16	3/4	7/8	3-1/8	3700-0032	3700-1032
13/64	1/2	7/8	3-1/8	3700-0034	3700-1034
13/64	3/4	7/8	3-1/8	3700-0036	3700-1036
7/32	3/4	7/8	3-1/4	3700-0038	3700-1038
7/32	1/2	7/8	3-1/4	3700-0040	3700-1040
15/64	1/2	7/8	3-1/8	3700-0042	3700-1042
1/4	1/2	1	3	3700-0044	3700-1044
1/4	1/2	1	3-1/8	3700-0046	3700-1046
1/4	3/4	1	3-1/4	3700-0048	3700-1048
17/64	1/2	1	3-1/8	3700-0050	3700-1050
17/64	3/4	1	3-1/8	3700-0052	3700-1052
9/32	1/2	1-1/8	3-1/4	3700-0054	3700-1054
9/32	5/8	1	3	3700-0056	3700-1056
9/32	3/4	1-1/8	3-1/4	3700-0058	3700-1058
19/64	1/2	1-1/8	3-1/4	3700-0060	3700-1060
19/64	3/4	1-1/8	3-1/4	3700-0062	3700-1062
5/16	1/2	1-1/8	3-1/4	3700-0064	3700-1064
5/16	3/4	1-1/8	3-1/4	3700-0066	3700-1066
5/16	5/8	1-1/8	3-1/2	3700-0068	3700-1068
5/16	7/8	1-1/8	3-1/2	3700-0070	3700-1070
21/64	1/2	1-1/8	3-1/4	3700-0072	3700-1072
21/64	3/4	1-1/8	3-1/4	3700-0074	3700-1074
11/32	1/2	1-1/8	3-1/2	3700-0076	3700-1076
11/32	3/4	1-1/8	3-1/2	3700-0078	3700-1078
3/8	1/2	1-1/4	3-1/2	3700-0080	3700-1080

RADIUS SIZE	SHANK b	CUTTER d	OVERALL LENGTH L	UN-Coated ORDER No.	Tin-Coated ORDER No.
3/8	3/4	1-1/4	3-1/2	3700-0082	3700-1082
3/8	7/8	1-1/4	3-3/4	3700-0084	3700-1084
13/32	3/4	1-1/4	3-1/2	3700-0086	3700-1086
7/16	3/4	1-3/8	3-3/4	3700-0088	3700-1088
7/16	3/4	1-3/8	4	3700-0090	3700-1090
7/16	1	1-3/8	4	3700-0092	3700-1092
15/32	3/4	1-3/8	3-3/4	3700-0094	3700-1094
1/2	1/2	1-1/2	3-7/8	3700-0096	3700-1096
1/2	3/4	1-1/2	3-7/8	3700-0098	3700-1098
1/2	1	1-1/2	4-1/8	3700-0100	3700-1100
17/32	3/4	1-1/2	3-7/8	3700-0102	3700-1102
17/32	1	1-1/2	4-1/8	3700-0104	3700-1104
9/16	3/4	1-5/16	4	3700-0106	3700-1106
9/16	1	1-5/16	4-1/4	3700-0108	3700-1108
19/32	3/4	1-15/16	4	3700-0110	3700-1110
19/32	1	1-15/16	4-1/4	3700-0112	3700-1112
5/8	3/4	1-15/16	4	3700-0114	3700-1114
5/8	1	1-15/16	4-1/4	3700-0116	3700-1116
21/32	3/4	1-15/16	4	3700-0118	3700-1118
21/32	1	1-15/16	4-1/4	3700-0120	3700-1120
11/16	3/4	2-1/4	4-1/8	3700-0122	3700-1122
11/16	1	2-1/4	4-5/16	3700-0124	3700-1124
23/32	3/4	2-1/4	4-1/8	3700-0126	3700-1126
23/32	1	2-1/4	4-5/16	3700-0128	3700-1128
3/4	3/4	1-7/8	4	3700-0130	3700-1130
3/4	3/4	2-1/4	4-1/8	3700-0132	3700-1132
3/4	1	2-1/4	4-5/16	3700-0134	3700-1134
25/32	3/4	2-1/4	4-1/8	3700-0136	3700-1136
25/32	1	2-1/4	4-5/16	3700-0138	3700-1138
13/16	3/4	2-1/4	4-1/8	3700-0140	3700-1140
13/16	1	2-1/4	4-5/16	3700-0142	3700-1142
27/32	3/4	2-1/2	4-1/2	3700-0144	3700-1144
27/32	1	2-1/2	4-1/2	3700-0146	3700-1146
7/8	3/4	2-1/2	4-1/2	3700-0148	3700-1148
7/8	1	2-1/2	4-1/2	3700-0150	3700-1150
15/16	3/4	2-5/8	4-1/2	3700-0152	3700-1152
15/16	1	2-5/8	4-3/4	3700-0154	3700-1154
1	3/4	2-5/8	4-1/2	3700-0156	3700-1156
1	1	2-5/8	4-3/4	3700-0158	3700-1158

Mills Cutter

RADIUS SIZE	SHANK b	CUTTER d	OVERALL LENGTH L	UN-Coated ORDER No.	Tin-Coated ORDER No.
1.0	10	8	60	3702-0010	3702-1010
1.25	10	8.5	60	3702-0012	3702-1012
1.5	10	9	60	3702-0015	3702-1015
1.6	10	9.5	60	3702-0016	3702-1016
2.0	10	10	60	3702-0020	3702-1020
2.5	10	11	60	3702-0025	3702-1025
3.0	12	12	60	3702-0030	3702-1030
3.5	12	13	60	3702-0035	3702-1035
4.0	12	14	60	3702-0040	3702-1040
4.5	12	15	60	3702-0045	3702-1045
5.0	12	16	60	3702-0050	3702-1050
6.0	16	20	67	3702-0060	3702-1060

RADIUS SIZE	SHANK b	CUTTER d	OVERALL LENGTH L	UN-Coated ORDER No.	Tin-Coated ORDER No.
7.0	16	22	71	3702-0070	3702-1070
8.0	16	24	71	3702-0080	3702-1080
9.0	25	26	85	3702-0090	3702-1090
10.0	25	28	85	3702-0100	3702-1100
11.0	25	32	90	3702-0110	3702-1110
12.0	25	34	90	3702-0120	3702-1120
13.0	25	42	100	3702-0130	3702-1130
14.0	25	44	100	3702-0140	3702-1140
15.0	25	46	100	3702-0150	3702-1150
16.0	25	48	100	3702-0160	3702-1160
18.0	25	52	100	3702-0180	3702-1180
20.0	25	56	112	3702-0200	3702-1200



RADIUS SIZE	SHANK b	CUTTER d	OVERALL LENGTH L	UN-Coated ORDER No.	Tin-Coated ORDER No.
1.0	10	8	60	3703-0010	3703-1010
1.25	10	8.5	60	3703-0012	3703-1012
1.5	10	9	60	3703-0015	3703-1015
1.6	10	9.5	60	3703-0016	3703-1016
2.0	10	10	60	3703-0020	3703-1020
2.5	10	11	60	3703-0025	3703-1025
3.0	12	12	60	3703-0030	3703-1030
3.5	12	13	60	3703-0035	3703-1035
4.0	12	14	60	3703-0040	3703-1040
4.5	12	15	60	3703-0045	3703-1045
5.0	12	16	60	3703-0050	3703-1050
6.0	16	20	67	3703-0060	3703-1060

RADIUS SIZE	SHANK b	CUTTER d	OVERALL LENGTH L	UN-Coated ORDER No.	Tin-Coated ORDER No.
7.0	16	22	71	3703-0070	3703-1070
8.0	16	24	71	3703-0080	3703-1080
9.0	25	26	85	3703-0090	3703-1090
10.0	25	28	85	3703-0100	3703-1100
11.0	25	32	90	3703-0110	3703-1110
12.0	25	34	90	3703-0120	3703-1120
13.0	25	42	100	3703-0130	3703-1130
14.0	25	44	100	3703-0140	3703-1140
15.0	25	46	100	3703-0150	3703-1150
16.0	25	48	100	3703-0160	3703-1160
18.0	25	52	100	3703-0180	3703-1180
20.0	25	56	112	3703-0200	3703-1200

Mills Cutter

Corner Rounding End Mill Sets

套装圆端R立铣刀



4Pcs/Set Corner Rounding End Mill

4Pcs Includes:

1/2, 9/16, 5/8, 3/4 with 3/4 Shank

UN-Coated ORDER No. 3701-0001

Tin-Coated ORDER No. 3701-1001



8Pcs/Set Corner Rounding End Mill

8Pcs Includes:

1/16, 3/32, 1/8 With 3/8 Shank

3/16, 1/4, 5/16, 3/8 With 1/2 Shank

UN-Coated ORDER No. 3701-0004

Tin-Coated ORDER No. 3701-1004

8Pcs/Set Corner Rounding End Mill

8Pcs Includes:

3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4
With 3/4 Shank

UN-Coated ORDER No. 3701-0006

Tin-Coated ORDER No. 3701-1006

8Pcs/Set Corner Rounding End Mill

8Pcs Includes:

1, 2mm With 10mm Shank

3, 4, 5mm With 12mm Shank

6, 8, 10mm With 16mm Shank

UN-Coated ORDER No. 3702-0006

Tin-Coated ORDER No. 3702-1006

8Pcs/Set Corner Rounding End Mill

8Pcs Includes:

2mm With 10mm Shank

3, 4, 5mm With 12mm Shank

6, 8mm With 16mm Shank

10, 12mm With 25mm Shank

UN-Coated ORDER No. 3702-0002

Tin-Coated ORDER No. 3702-1002

8Pcs/Set Corner Rounding End Mill

8Pcs Includes:

6, 8mm With 16mm Shank

10, 12, 14, 16, 18, 20mm With 25mm Shank

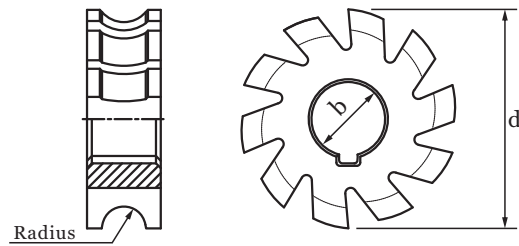
UN-Coated ORDER No. 3702-0004

Tin-Coated ORDER No. 3702-1004

Concave Milling Cutter

凹半圓銑刀

* Arbor Type
* Convex cutter produce a concave half circle and are form relieved.
* ANSI B94.19-1977



RADIUS SIZE	CUTTER d	HOLE b	HSS ORDER No.	HSS-Co ORDER No.
1/16	2-1/4	1	3711-0002	3711-1002
3/32	2-1/4	1	3711-0004	3711-1004
1/8	2	7/8	3711-0006	3711-1006
1/8	2-1/4	1	3711-0008	3711-1008
5/32	2-1/4	1	3711-0010	3711-1010
3/16	2	7/8	3711-0012	3711-1012
3/16	2-1/4	1	3711-0014	3711-1014
7/32	2-1/4	1	3711-0016	3711-1016
1/4	2	7/8	3711-0018	3711-1018
1/4	2-1/2	1	3711-0020	3711-1020
9/32	2-1/2	1	3711-0022	3711-1022
5/16	2-1/4	7/8	3711-0024	3711-1024
5/16	2-3/4	1	3711-0026	3711-1026
11/32	2-3/4	1	3711-0028	3711-1028
3/8	2-1/4	7/8	3711-0030	3711-1030
3/8	2-3/4	1	3711-0032	3711-1032
13/32	2-3/4	1	3711-0034	3711-1034
7/16	2-1/4	7/8	3711-0036	3711-1036
7/16	3	1	3711-0038	3711-1038
1/2	2-1/4	7/8	3711-0040	3711-1040
1/2	3	1	3711-0042	3711-1042
9/16	2-3/4	1	3711-0044	3711-1044

RADIUS SIZE	CUTTER d	HOLE b	HSS ORDER No.	HSS-Co ORDER No.
9/16	3	1	3711-0046	3711-1046
5/8	2-3/4	1	3711-0048	3711-1048
5/8	3-1/2	1-1/4	3711-0050	3711-1050
11/16	3	1	3711-0052	3711-1052
3/4	3	1	3711-0054	3711-1054
3/4	3-3/4	1-1/4	3711-0056	3711-1056
13/16	3-1/4	1	3711-0058	3711-1058
13/16	3-1/4	1-1/4	3711-0060	3711-1060
7/8	3-1/4	1	3711-0062	3711-1062
7/8	4	1-1/4	3711-0064	3711-1064
15/16	3-1/2	1	3711-0066	3711-1066
1	3-1/4	1	3711-0068	3711-1068
1	4-1/4	1-1/4	3711-0070	3711-1070
1-1/8	4	1-1/4	3711-0072	3711-1072
1-1/4	4	1-1/4	3711-0074	3711-1074
1-3/8	4-1/4	1-1/4	3711-0076	3711-1076
1-1/2	4-1/4	1-1/4	3711-0078	3711-1078
1-5/8	5-1/2	1-1/4	3711-0080	3711-1080
1-3/4	5-1/2	1-1/4	3711-0082	3711-1082
1-7/8	6	1-1/2	3711-0084	3711-1084
2	6	1-1/2	3711-0086	3711-1086

DIN855

RADIUS SIZE	CUTTER d	HOLE b	HSS ORDER No.	HSS-Co ORDER No.
1.0	50	16	3713-0010	3713-1010
1.25	50	16	3713-0012	3713-1012
1.6	50	16	3713-0016	3713-1016
2.0	50	16	3713-0020	3713-1020
2.5	63	22	3713-0025	3713-1025
3.0	63	22	3713-0030	3713-1030
3.15	63	22	3713-0031	3713-1031
4.0	63	22	3713-0040	3713-1040
5.0	63	22	3713-0050	3713-1050

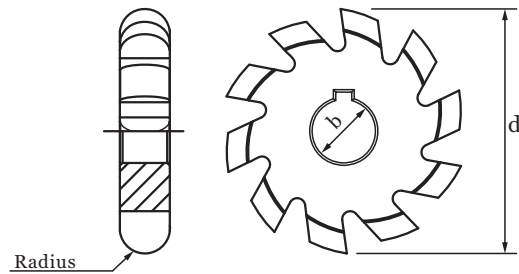
RADIUS SIZE	CUTTER d	HOLE b	HSS ORDER No.	HSS-Co ORDER No.
6.0	80	27	3713-0060	3713-1060
6.3	80	27	3713-0063	3713-1063
8	80	27	3713-0080	3713-1080
10	100	32	3713-0100	3713-1100
12	100	32	3713-0120	3713-1120
12.5	100	32	3713-0125	3713-1125
16	125	32	3713-0160	3713-1160
20	125	32	3713-0200	3713-1200

Mills Cutter

Convex Milling Cutter

凸半圆铣刀

* Arbor Type
* Convex cutter produce a concave half circle and are form relieved.
* ANSI B94.19-1977



RADIUS SIZE	CUTTER d	HOLE b	HSS ORDER No.	HSS-Co ORDER No.
1/16	2-1/4	1	3710-0002	3710-1002
3/32	2-1/4	1	3710-0004	3710-1004
1/8	2	7/8	3710-0006	3710-1006
1/8	2-1/4	1	3710-0008	3710-1008
5/32	2-1/4	1	3710-0010	3710-1010
3/16	2	7/8	3710-0012	3710-1012
3/16	2-1/4	1	3710-0014	3710-1014
7/32	2-1/4	1	3710-0016	3710-1016
1/4	2	7/8	3710-0018	3710-1018
1/4	2-1/2	1	3710-0020	3710-1020
9/32	2-1/2	1	3710-0022	3710-1022
5/16	2-1/4	7/8	3710-0024	3710-1024
5/16	2-3/4	1	3710-0026	3710-1026
11/32	2-3/4	1	3710-0028	3710-1028
3/8	2-1/4	7/8	3710-0030	3710-1030
3/8	2-3/4	1	3710-0032	3710-1032
13/32	2-3/4	1	3710-0034	3710-1034
7/16	2-1/4	7/8	3710-0036	3710-1036
7/16	3	1	3710-0038	3710-1038
1/2	2-1/4	7/8	3710-0040	3710-1040
1/2	3	1	3710-0042	3710-1042
9/16	2-3/4	1	3710-0044	3710-1044

RADIUS SIZE	CUTTER d	HOLE b	HSS ORDER No.	HSS-Co ORDER No.
9/16	3	1	3710-0046	3710-1046
5/8	2-3/4	1	3710-0048	3710-1048
5/8	3-1/2	1-1/4	3710-0050	3710-1050
11/16	3	1	3710-0052	3710-1052
3/4	3	1	3710-0054	3710-1054
3/4	3-3/4	1-1/4	3710-0056	3710-1056
13/16	3-1/4	1	3710-0058	3710-1058
13/16	3-1/4	1-1/4	3710-0060	3710-1060
7/8	3-1/4	1	3710-0062	3710-1062
7/8	4	1-1/4	3710-0064	3710-1064
15/16	3-1/2	1	3710-0066	3710-1066
1	3-1/4	1	3710-0068	3710-1068
1	4-1/4	1-1/4	3710-0070	3710-1070
1-1/8	4	1-1/4	3710-0072	3710-1072
1-1/4	4	1-1/4	3710-0074	3710-1074
1-3/8	4-1/4	1-1/4	3710-0076	3710-1076
1-1/2	4-1/4	1-1/4	3710-0078	3710-1078
1-5/8	5-1/2	1-1/4	3710-0080	3710-1080
1-3/4	5-1/2	1-1/4	3710-0082	3710-1082
1-7/8	6	1-1/2	3710-0084	3710-1084
2	6	1-1/2	3710-0086	3710-1086

DIN855

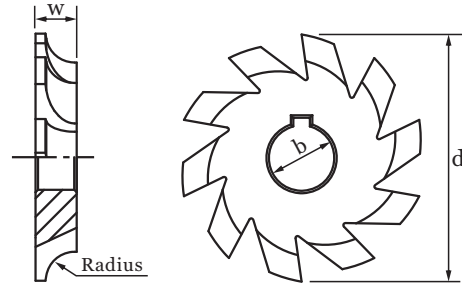
RADIUS SIZE	CUTTER d	HOLE b	HSS ORDER No.	HSS-Co ORDER No.
0.5	50	16	—	—
0.8	50	16	—	—
1.0	50	16	3712-0010	3712-1010
1.25	50	16	3712-0012	3712-1012
1.6	50	16	3712-0016	3712-1016
2.0	50	16	3712-0020	3712-1020
2.5	63	22	3712-0025	3712-1025
3.0	63	22	3712-0030	3712-1030
3.15	63	22	3712-0031	3712-1031
4.0	63	22	3712-0040	3712-1040

RADIUS SIZE	CUTTER d	HOLE b	HSS ORDER No.	HSS-Co ORDER No.
5.0	63	22	3712-0050	3712-1050
6.0	80	27	3712-0060	3712-1060
6.3	80	27	3712-0063	3712-1063
8	80	27	3712-0080	3712-1080
10	100	32	3712-0100	3712-1100
12	100	32	3712-0120	3712-1120
12.5	100	32	3712-0125	3712-1125
16	125	32	3712-0160	3712-1160
20	125	32	3712-0200	3712-1200

Corner Rounding Milling Cutter

1/4吋半圓銑刀

- * Arbor Type.
- * Right Hand And Left Hand.
- * Designed for radius milling on arbor type milling machines.
- * They have form relieved, straight gashed teeth and can be resharpened by grinding the faces without changing the form.
- * ANSI B94.19-1977



RADIUS SIZE	CUTTER d	FACE WIDTH w	HOLE b	HSS-Right ORDER No.	HSS-Co Right ORDER No.	HSS-Left ORDER No.	HSS-Co Left ORDER No.
1/8	2	1/4	7/8	3714-0010	3714-1010	3715-0010	3715-1010
1/8	2-1/2	1/4	1	3714-0015	3714-1015	3715-0015	3715-1015
3/16	2-1/2	5/16	1	3714-0020	3714-1020	3715-0020	3715-1020
1/4	2-1/4	13/32	7/8	3714-0025	3714-1025	3715-0025	3715-1025
1/4	3	13/32	1	3714-0030	3714-1030	3715-0030	3715-1030
5/16	2-3/4	1/2	1	3714-0035	3714-1035	3715-0035	3715-1035
5/16	3	1/2	1	3714-0040	3714-1040	3715-0040	3715-1040
3/8	3	9/16	1	3714-0045	3714-1045	3715-0045	3715-1045
3/8	3-3/4	9/16	1-1/4	3714-0050	3714-1050	3715-0050	3715-1050
7/16	3-1/4	3/4	1	3714-0055	3714-1055	3715-0055	3715-1055
1/2	3-1/4	3/4	1	3714-0060	3714-1060	3715-0060	3715-1060
1/2	4-1/4	3/4	1-1/4	3714-0065	3714-1065	3715-0065	3715-1065
9/16	3-1/2	13/16	1	3714-0070	3714-1070	3715-0070	3715-1070
5/8	3-1/2	15/16	1	3714-0075	3714-1075	3715-0075	3715-1075
5/8	4-1/4	15/16	1-1/4	3714-0080	3714-1080	3715-0080	3715-1080
3/4	3-3/4	1-1/8	1	3714-0085	3714-1085	3715-0085	3715-1085
7/8	4-1/2	1-1/4	1-1/4	3714-0090	3714-1090	3715-0090	3715-1090
1	4-1/2	1-3/8	1-1/4	3714-0095	3714-1095	3715-0095	3715-1095

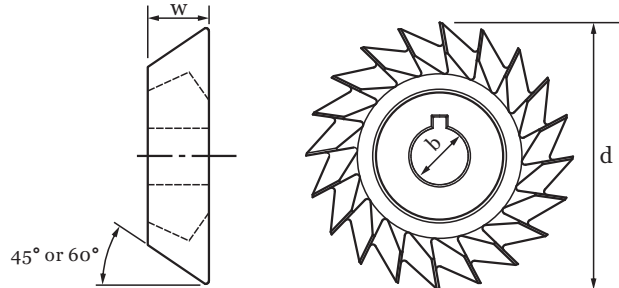
RADIUS SIZE	CUTTER d	FACE WIDTH w	HOLE b	HSS-Right ORDER No.	HSS-Co Right ORDER No.	HSS-Left ORDER No.	HSS-Co Left ORDER No.
1.0	50	3	16	3716-0010	3716-1010	3717-0010	3717-1010
1.25	50	3	16	3716-0012	3716-1012	3717-0012	3717-1012
1.6	50	4	16	3716-0016	3716-1016	3717-0016	3717-1016
2.0	50	4.5	16	3716-0020	3716-1020	3717-0020	3717-1020
2.5	63	5	22	3716-0025	3716-1025	3717-0025	3717-1025
3.0	63	6	22	3716-0030	3716-1030	3717-0030	3717-1030
3.15	63	6	22	3716-0031	3716-1031	3717-0031	3717-1031
4.0	63	8	22	3716-0040	3716-1040	3717-0040	3717-1040
5.0	63	10	22	3716-0050	3716-1050	3717-0050	3717-1050
6.0	80	12	27	3716-0060	3716-1060	3717-0060	3717-1060
6.3	80	12	27	3716-0063	3716-1063	3717-0063	3717-1063
8.0	80	16	27	3716-0080	3716-1080	3717-0080	3717-1080
10.0	100	18	32	3716-0100	3716-1100	3717-0100	3717-1100
12.0	100	20	32	3716-0120	3716-1120	3717-0120	3717-1120
12.5	100	20	32	3716-0125	3716-1125	3717-0125	3717-1125
16.0	125	25	32	3716-0160	3716-1160	3717-0160	3717-1160
20.0	125	30	32	3716-0200	3716-1200	3717-0200	3717-1200

Mills Cutter

Single Angle Milling Cutter

单角度铣刀

- * Arbor Type
- * Supplied with Corner Radius
- * For cutting dovetails and angles
- * Right Hand and Left Hand 45° & 60°



45°					
SIZE d	WIDTH FACE	HOLE b	TEETH No. OF	HSS-R ORDER No.	HSS-L ORDER No.
2-1/2	1/2	7/8	18	3720-0212	3720-1212
2-3/4	1/2	1	18	3720-0234	3720-1234
3	1/2	1-1/4	22	3720-0310	3720-1310
3	5/8	1	22	3720-0320	3720-1320
3	5/8	1-1/4	22	3720-0321	3720-1321
3	3/4	1	22	3720-0330	3720-1330
4	1/2	1	26	3720-0410	3720-1410
4	1/2	1-1/4	26	3720-0411	3720-1411
4	3/4	1	26	3720-0420	3720-1420

60°					
SIZE d	WIDTH FACE	HOLE b	TEETH No. OF	HSS-R ORDER No.	HSS-L ORDER No.
2-1/2	1/2	7/8	18	3720-0212	3720-1212
2-3/4	1/2	1	18	3720-0234	3720-1234
3	1/2	1-1/4	22	3720-0310	3720-1310
3	5/8	1	22	3720-0320	3720-1320
3	5/8	1-1/4	22	3720-0321	3720-1321
3	3/4	1	22	3720-0330	3720-1330
3	3/4	1-1/4	22	3720-0410	3720-1410
4	1/2	1	26	3720-0411	3720-1411
4	1/2	1-1/4	26	3720-0412	3720-1412

45°					
SIZE d	WIDTH FACE	HOLE b	TEETH No. OF	HSS-R ORDER No.	HSS-L ORDER No.
4	3/4	1-1/4	26	3720-0421	3720-1421
4	1	1-1/4	26	3720-0430	3720-1430
5	3/4	1-1/4	28	3720-0510	3720-1510
5	1	1-1/4	28	3720-0520	3720-1520
6	3/4	1-1/4	30	3720-0610	3720-1610
6	1	1-1/4	30	3720-0620	3720-1620

60°					
SIZE d	WIDTH FACE	HOLE b	TEETH No. OF	HSS-R ORDER No.	HSS-L ORDER No.
4	3/4	1	26	3720-0420	3720-1420
4	3/4	1-1/4	26	3720-0421	3720-1421
4	1	1-1/4	26	3720-0430	3720-1430
5	3/4	1-1/4	28	3720-0510	3720-1510
5	1	1-1/4	28	3720-0520	3720-1520
6	3/4	1-1/4	30	3720-0610	3720-1610
6	1	1-1/4	30	3720-0620	3720-1620

DIN 842

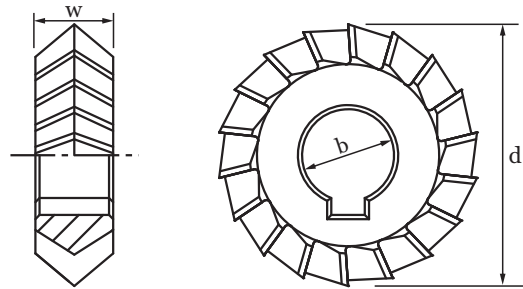
SIZE d	WIDTH FACE	HOLE b	ANGLE	HSS-R ORDER No.	HSS-L ORDER No.	HSS Co-R ORDER No.	HSS Co-L ORDER No.
32	8	10	45°	3722-0032	3722-1032	3722-4032	3722-5032
40	10	10	45°	3722-0040	3722-1040	3722-4040	3722-5040
50	13	13	45°	3722-0050	3722-1050	3722-4050	3722-5050
63	18	16	45°	3722-0063	3722-1063	3722-4063	3722-5063
80	22	22	45°	3722-0080	3722-1080	3722-4080	3722-5080
100	28	27	45°	3722-0100	3722-1100	3722-4100	3722-5100
125	36	32	45°	3722-0125	3722-1125	3722-4125	3722-5125
160	45	40	45°	3722-0160	3722-1160	3722-4160	3722-5160

SIZE d	WIDTH FACE	HOLE b	ANGLE	HSS-R ORDER No.	HSS-L ORDER No.	HSS Co-R ORDER No.	HSS Co-L ORDER No.
32	10	10	60°	3723-0032	3723-1032	3723-0032	3723-1032
40	13	10	60°	3723-0040	3723-1040	3723-0040	3723-1040
50	16	13	60°	3723-0050	3723-1050	3723-0050	3723-1050
63	20	16	60°	3723-0063	3723-1063	3723-0063	3723-1063
80	25	22	60°	3723-0080	3723-1080	3723-0080	3723-1080
100	32	27	60°	3723-0100	3723-1100	3723-0100	3723-1100
125	40	32	60°	3723-0125	3723-1125	3723-0125	3723-1125
160	50	40	60°	3723-0160	3723-1160	3723-0160	3723-1160

Double Angle Milling Cutter

对称双角度铣刀

* Arbor Type
* Import Supplied with Corner Radius
* 45°, 60°, 90° .



SIZE	WIDTH FACE	HOLE DIA	ANGLE	TEETH PER	ORDER No.
2-3/4	1/2	1	45°	18	3724-0410
2-3/4	1/2	1	60°	18	3724-0610
2-3/4	1/2	1	90°	18	3724-0910
3	5/8	1	45°	22	3724-0415
3	5/8	1	60°	22	3724-0615
3	5/8	1	90°	22	3724-0915
3	3/4	1	60°	22	3724-0620
3	3/4	1	90°	22	3724-0920
4	1/2	1-1/4	45°	26	3724-0425
4	1/2	1-1/4	60°	26	3724-0625
4	1/2	1-1/4	90°	26	3724-0925
4	3/4	1	45°	26	3724-0430
4	3/4	1	60°	26	3724-0630
4	3/4	1	90°	26	3724-0930
4	3/4	1-1/4	45°	26	3724-0435
4	3/4	1-1/4	60°	26	3724-0635
4	3/4	1-1/4	90°	26	3724-0935

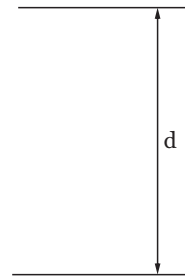
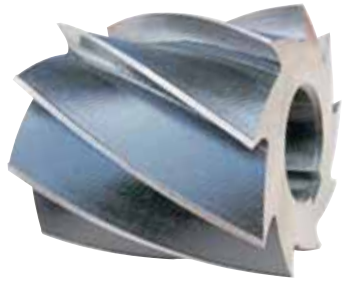
SIZE	WIDTH FACE	HOLE DIA	ANGLE	TEETH PER	ORDER No.
4	1	1-1/4	60°	26	3724-0640
4	1	1-1/4	90°	26	3724-0940
5	3/4	1-1/4	45°	28	3724-0445
5	3/4	1-1/4	60°	28	3724-0645
5	3/4	1-1/4	90°	28	3724-0945
5	1	1-1/4	45°	28	3724-0450
5	1	1-1/4	60°	28	3724-0650
5	1	1-1/4	90°	28	3724-0950
6	3/4	1-1/4	45°	30	3724-0455
6	3/4	1-1/4	60°	30	3724-0655
6	3/4	1-1/4	90°	30	3724-0955
6	1	1-1/4	45°	30	3724-0460
6	1	1-1/4	60°	30	3724-0660
6	1	1-1/4	90°	30	3724-0960
6	1-1/2	1-1/4	45°	30	3724-0470
6	1-1/2	1-1/4	60°	30	3724-0670
6	1-1/2	1-1/4	90°	30	3724-0970

SIZE	WIDTH FACE	HOLE DIA	ANGLE	ORDER No.
50	8	16	45°	3725-0450
50	10	16	60°	3725-0650
50	14	16	90°	3725-0950
63	10	22	45°	3725-0463
63	14	22	60°	3725-0663
63	20	22	90°	3725-0963
80	12	27	45°	3725-0480
80	18	27	60°	3725-0680
80	22	27	90°	3725-0980
100	18	32	45°	3725-0410
100	25	32	60°	3725-0610
100	32	32	90°	3725-0910

Mills Cutter

Plain Milling Cutter

圆柱铣刀



SIZE	WIDTH FACE	HOLE DIA	HSS ORDER No.
2-1/4	1/4	7/8	3730-0005
2-1/4	1/2	7/8	3730-0010
2-1/4	1	7/8	3730-0015
2-1/2	3/16	1	3730-0020
2-1/2	1/4	1	3730-0025
2-1/2	5/16	1	3730-0030
2-1/2	3/8	1	3730-0035
2-1/2	7/16	1	3730-0040
2-1/2	1/2	1	3730-0045
2-1/2	5/8	1	3730-0050
2-1/2	3/4	1	3730-0055
2-1/2	1	1	3730-0060
2-1/2	1-1/2	1	3730-0065
2-1/2	2	1	3730-0070
2-1/2	2-1/2	1	3730-0075
2-1/2	3	1	3730-0080
3	3/16	1	3730-0085
3	1/4	1	3730-0090
3	5/16	1	3730-0095
3	3/8	1	3730-0100
3	3/8	1-1/4	3730-0105
3	7/16	1-1/4	3730-0110
3	1/2	1	3730-0115
3	5/8	1-1/4	3730-0120

SIZE	WIDTH FACE	HOLE DIA	HSS ORDER No.
2-1/2	2	1	3731-0010
2-1/2	3	1	3731-0012
2-1/2	4	1	3731-0014
3	1/2	1	3731-0016
3	3/4	1	3731-0018
3	1	1	3731-0020
3	1-1/4	1-1/4	3731-0022
3	1-1/2	1-1/4	3731-0024
3	2	1-1/4	3731-0026

SIZE	WIDTH FACE	HOLE DIA	HSS ORDER No.
50	40	22	3732-0024
50	63	22	3732-0026
50	80	22	3732-0028
63	50	27	3732-0032

SIZE	WIDTH FACE	HOLE DIA	HSS ORDER No.
3	3/4	1	3730-0125
3	7/8	1-1/4	3730-0130
3	1	1	3730-0135
3	1	1-1/4	3730-0140
3	1-1/4	1-1/4	3730-0145
3	1-1/2	1-1/4	3730-0150
3	2	1-1/4	3730-0155
3	2-1/2	1-1/4	3730-0160
3	3	1-1/4	3730-0165
4	1/4	1	3730-0170
4	1/4	1-1/4	3730-0175
4	5/16	1	3730-0180
4	3/8	1	3730-0185
4	1	1	3730-0190
4	3/8	1-1/4	3730-0195
4	1/2	1-1/4	3730-0200
4	5/8	1-1/4	3730-0205
4	3/4	1-1/4	3730-0210
4	1	1-1/4	3730-0215
4	1-1/2	1-1/4	3730-0220
4	2	1-1/4	3730-0225
4	3	1-1/4	3730-0230
4	4	1-1/4	3730-0235

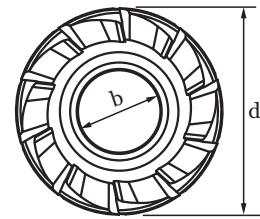
SIZE	WIDTH FACE	HOLE DIA	HSS ORDER No.
3	2-1/2	1-1/4	3731-0028
3	3	1-1/4	3731-0030
3	4	1-1/4	3731-0032
3	6	1-1/4	3731-0034
4	2	1-1/2	3731-0036
4	3	1-1/2	3731-0038
4	4	1-1/2	3731-0040
4	6	1-1/2	3731-0042
4-1/2	6	2	3731-0044

SIZE	WIDTH FACE	HOLE DIA	HSS ORDER No.
63	70	27	3732-0034
80	63	32	3732-0036
80	100	32	3732-0038
100	70	40	3732-0040

Shell End Milling Cutter

套式铣刀

* General Purpose
* Manufactured from High Speed Steel.



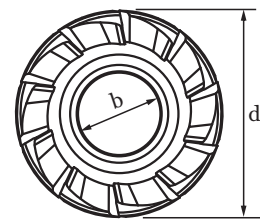
SIZE d	WIDTH FACE	HOLE b	FLUTES No. of	HSS-R ORDER No.	HSS-L ORDER No.
1-1/4	1	1/2	8	3733-0114	3733-1114
1-1/2	1-1/8	1/2	8	3733-0112	3733-1112
1-3/4	1-1/4	3/4	8	3733-0134	3733-1134
2	1-3/8	3/4	10	3733-0200	3733-1200
2-1/4	1-1/2	1	10	3733-0214	3733-1214
2-1/2	1-5/8	1	10	3733-0212	3733-1212
2-3/4	1-5/8	1	10	3733-0234	3733-1234

SIZE d	WIDTH FACE	HOLE b	FLUTES No. of	HSS-R ORDER No.	HSS-L ORDER No.
40	32	19	6	3734-0040	3734-1040
50	36	22	8	3734-0050	3734-1050
50	50	22	8	3734-0051	3734-1051
50	63	22	8	3734-0052	3734-1052
60	100	27	8	3734-0060	3734-1060
63	40	27	8	3734-0063	3734-1063
63	70	27	8	3734-0065	3734-1065

SIZE d	WIDTH FACE	HOLE b	FLUTES No. of	HSS-R ORDER No.	HSS-L ORDER No.
3	1-3/4	1-1/4	12	3733-0300	3733-1300
3-1/2	1-7/8	1-1/4	12	3733-0312	3733-1312
4	2-1/4	1-1/2	14	3733-0400	3733-1400
4-1/2	2-1/4	1-1/2	14	3733-0412	3733-1412
5	2-1/4	1-1/2	16	3733-0500	3733-1500
5-1/2	2-1/4	2	16	3733-0512	3733-1512
6	2-1/4	2	16	3733-0600	3733-1600

SIZE d	WIDTH FACE	HOLE b	FLUTES No. of	HSS-R ORDER No.	HSS-L ORDER No.
63	80	27	8	3734-0066	3734-1066
63	100	27	8	3734-0064	3734-1064
80	45	27	10	3734-0080	3734-1080
100	50	32	10	3734-0100	3734-1100
125	56	40	12	3734-0125	3734-1125
160	63	50	16	3734-0160	3734-1160

Shell Roughing End Milling Cutter



SIZE	WIDTH FACE	HOLE DIA	FLUTES No. of	HSS-R ORDER No.	HSS-L ORDER No.
2	2	3/4	8	3734-0202	3734-1202
2-1/4	2	1	8	3734-0216	3734-1216
2-1/2	1-5/8	1	8	3734-0212	3734-1212
2-3/4	2	1	10	3734-0236	3734-1236
3	1-3/4	1-1/4	10	3734-0300	3734-1300
3-1/2	2	1-1/4	10	3734-0314	3734-1314

SIZE	WIDTH FACE	HOLE DIA	FLUTES No. of	HSS-R ORDER No.	HSS-L ORDER No.
40	32	19	6	3735-0040	3735-1040
50	36	22	8	3735-0050	3735-1050
50	50	22	8	3735-0051	3735-1051
50	63	22	8	3735-0052	3735-1052
60	100	27	8	3735-0060	3735-1060
63	40	27	8	3735-0063	3735-1063
63	70	27	8	3735-0065	3735-1065

SIZE	WIDTH FACE	HOLE DIA	FLUTES No. of	HSS-R ORDER No.	HSS-L ORDER No.
4	2-1/4	1-1/2	10	3734-0400	3734-1400
4-1/2	2-1/4	1-1/2	12	3734-0412	3734-1412
5	2-1/4	1-1/2	12	3734-0500	3734-1500
5-1/2	2-1/4	2	14	3734-0512	3734-1512
6	2-1/4	2	14	3734-0600	3734-1600

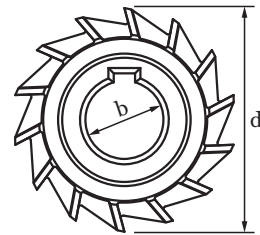
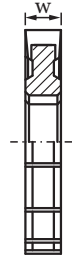
SIZE	WIDTH FACE	HOLE DIA	FLUTES No. of	HSS-R ORDER No.	HSS-L ORDER No.
63	80	27	8	3735-0066	3735-1066
63	100	27	8	3735-0064	3735-1064
80	45	27	10	3735-0080	3735-1080
100	50	32	10	3735-0100	3735-1100
125	56	40	12	3735-0125	3735-1125
160	63	50	16	3735-0160	3735-1160

Mills Cutter

Straight Tooth Side Milling Cutter

直齿三面刃铣刀

- * General Purpose Use
- * Extends tool life
- * Used for aggressive machining of steels



SIZE	WIDTH FACE	HOLE DIA	HSS ORDER #
2	3/16	1/2	3736-0002
2	1/4	1/2	3736-0004
2	5/16	1/2	3736-0006
2	3/8	1/2	3736-0008
2	3/16	5/8	3736-0010
2	1/4	5/8	3736-0012
2	5/16	5/8	3736-0014
2	3/8	5/8	3736-0016
2	1/4	7/8	3736-0018
2	5/16	7/8	3736-0020
2	3/8	7/8	3736-0022
2	7/16	7/8	3736-0024
2-1/2	3/16	7/8	3736-0026
2-1/2	1/4	7/8	3736-0028
2-1/2	5/16	7/8	3736-0030
2-1/2	3/8	7/8	3736-0032
2-1/2	7/16	7/8	3736-0034
2-1/2	1/2	7/8	3736-0036
2-1/2	9/16	7/8	3736-0038
2-1/2	5/8	7/8	3736-0040
2-1/2	3/16	1	3736-0042
2-1/2	1/4	1	3736-0044
2-1/2	5/16	1	3736-0046
2-1/2	3/8	1	3736-0048
2-1/2	7/16	1	3736-0050
2-1/2	1/2	1	3736-0052
2-1/2	9/16	1	3736-0054
2-1/2	5/8	1	3736-0056
3	3/16	1	3736-0058
3	7/32	1	3736-0060
3	1/4	1	3736-0062
3	9/32	1	3736-0064
3	5/16	1	3736-0066
3	11/32	1	3736-0068
3	3/8	1	3736-0070
3	13/32	1	3736-0072
3	7/16	1	3736-0074
3	1/2	1	3736-0076
3	9/16	1	3736-0078
3	5/8	1	3736-0080
3	11/16	1	3736-0082
3	3/4	1	3736-0084
3	13/16	1	3736-0086
3	7/8	1	3736-0088
3	15/16	1	3736-0090
3	1	1	3736-0092
3	3/16	1-1/4	3736-0094

SIZE	WIDTH FACE	HOLE DIA	HSS ORDER #
3	7/32	1-1/4	3736-0096
3	1/4	1-1/4	3736-0098
3	9/32	1-1/4	3736-0100
3	5/16	1-1/4	3736-0102
3	11/32	1-1/4	3736-0104
3	3/8	1-1/4	3736-0106
3	13/32	1-1/4	3736-0108
3	7/16	1-1/4	3736-0110
3	1/2	1-1/4	3736-0112
3	9/16	1-1/4	3736-0114
3	5/8	1-1/4	3736-0116
3	11/16	1-1/4	3736-0118
3	3/4	1-1/4	3736-0120
3	13/16	1-1/4	3736-0122
3	7/8	1-1/4	3736-0124
3	15/16	1-1/4	3736-0126
3	1	1-1/4	3736-0128
3-1/2	3/16	1	3736-0130
3-1/2	1/4	1	3736-0132
3-1/2	5/16	1	3736-0134
3-1/2	3/8	1	3736-0136
3-1/2	7/16	1	3736-0138
3-1/2	1/2	1	3736-0140
3-1/2	5/8	1	3736-0142
3-1/2	7/16	1-1/4	3736-0144
3-1/2	1/2	1-1/4	3736-0146
4	3/16	1	3736-0148
4	7/32	1	3736-0150
4	1/4	1	3736-0152
4	9/32	1	3736-0154
4	5/16	1	3736-0156
4	11/32	1	3736-0158
4	3/8	1	3736-0160
4	13/32	1	3736-0162
4	7/16	1	3736-0164
4	1/2	1	3736-0166
4	9/16	1	3736-0168
4	5/8	1	3736-0170
4	11/16	1	3736-0172
4	3/4	1	3736-0174
4	13/16	1	3736-0176
4	7/8	1	3736-0178
4	15/16	1	3736-0180
4	1	1	3736-0182
4	1-1/8	1	3736-0184
4	1-1/4	1	3736-0186
4	1-1/2	1	3736-0188

SIZE	WIDTH FACE	HOLE DIA	HSS ORDER #
4	3/16	1-1/4	3736-0190
4	7/32	1-1/4	3736-0192
4	1/4	1-1/4	3736-0194
4	9/32	1-1/4	3736-0196
4	5/16	1-1/4	3736-0198
4	11/32	1-1/4	3736-0200
4	3/8	1-1/4	3736-0202
4	13/32	1-1/4	3736-0204
4	7/16	1-1/4	3736-0206
4	1/2	1-1/4	3736-0208
4	9/16	1-1/4	3736-0210
4	5/8	1-1/4	3736-0212
4	11/16	1-1/4	3736-0214
4	3/4	1-1/4	3736-0216
4	13/16	1-1/4	3736-0218
4	7/8	1-1/4	3736-0220
4	15/16	1-1/4	3736-0222
4	1	1-1/4	3736-0224
4	1-1/8	1-1/4	3736-0226
4	1-1/4	1-1/4	3736-0228
4	1-1/2	1-1/4	3736-0230
4-1/2	3/8	1-1/4	3736-0232
4-1/2	7/16	1-1/4	3736-0234
4-1/2	1/2	1-1/4	3736-0236
5	1/4	1	3736-0238
5	9/32	1	3736-0240
5	5/16	1	3736-0242
5	11/32	1	3736-0244
5	3/8	1	3736-0246
5	13/32	1	3736-0248
5	7/16	1	3736-0250
5	1/2	1	3736-0252
5	9/16	1	3736-0254
5	5/8	1	3736-0256
5	11/16	1	3736-0258
5	3/4	1	3736-0260
5	13/16	1	3736-0262
5	7/8	1	3736-0264
5	15/16	1	3736-0266
5	1	1	3736-0268
5	1/4	1-1/4	3736-0270
5	9/32	1-1/4	3736-0272
5	5/16	1-1/4	3736-0274
5	11/32	1-1/4	3736-0276
5	3/8	1-1/4	3736-0278
5	13/32	1-1/4	3736-0280
5	7/16	1-1/4	3736-0282

Mills Cutter

SIZE	WIDTH FACE	HOLE DIA	HSS ORDER No.
5	1/2	1-1/4	3736-0284
5	9/16	1-1/4	3736-0286
5	5/8	1-1/4	3736-0288
5	11/16	1-1/4	3736-0290
5	3/4	1-1/4	3736-0292
5	13/16	1-1/4	3736-0294
5	7/8	1-1/4	3736-0296
5	15/16	1-1/4	3736-0298
5	1	1-1/4	3736-0300
5	1-1/4	1-1/4	3736-0302
6	1/4	1	3736-0304
6	5/16	1	3736-0306
6	3/8	1	3736-0308
6	7/16	1	3736-0310
6	1/2	1	3736-0312
6	9/16	1	3736-0314
6	5/8	1	3736-0316
6	11/16	1	3736-0318
6	3/4	1	3736-0320
6	13/16	1	3736-0322
6	7/8	1	3736-0324
6	15/16	1	3736-0326
6	1	1	3736-0328
6	1-1/4	1	3736-0330
6	1/4	1-1/4	3736-0332
6	9/32	1-1/4	3736-0334
6	5/16	1-1/4	3736-0336
6	11/32	1-1/4	3736-0338
6	3/8	1-1/4	3736-0340
6	13/32	1-1/4	3736-0342
6	7/16	1-1/4	3736-0344
6	1/2	1-1/4	3736-0346
6	9/16	1-1/4	3736-0348

SIZE	WIDTH FACE	HOLE DIA	HSS ORDER No.
6	5/8	1-1/4	3736-0350
6	11/16	1-1/4	3736-0352
6	3/4	1-1/4	3736-0354
6	13/16	1-1/4	3736-0356
6	7/8	1-1/4	3736-0358
6	15/16	1-1/4	3736-0360
6	1	1-1/4	3736-0362
6	1-1/8	1-1/4	3736-0364
6	1-1/4	1-1/4	3736-0366
7	1/4	1-1/4	3736-0368
7	5/16	1-1/4	3736-0370
7	3/8	1-1/4	3736-0372
7	7/16	1-1/4	3736-0374
7	1/2	1-1/4	3736-0376
7	9/16	1-1/4	3736-0378
7	5/8	1-1/4	3736-0380
7	11/16	1-1/4	3736-0382
7	3/4	1-1/4	3736-0384
7	13/16	1-1/4	3736-0386
7	7/8	1-1/4	3736-0388
7	15/16	1-1/4	3736-0390
7	1	1-1/4	3736-0392
8	1/4	1	3736-0394
8	5/16	1	3736-0396
8	3/8	1	3736-0398
8	7/16	1	3736-0400
8	1/2	1	3736-0402
8	1/4	1-1/4	3736-0404
8	5/16	1-1/4	3736-0406
8	3/8	1-1/4	3736-0408
8	7/16	1-1/4	3736-0410
8	1/2	1-1/4	3736-0412
8	9/16	1-1/4	3736-0414

SIZE	WIDTH FACE	HOLE DIA	HSS ORDER No.
8	5/8	1-1/4	3736-0416
8	11/16	1-1/4	3736-0418
8	3/4	1-1/4	3736-0420
8	13/16	1-1/4	3736-0422
8	7/8	1-1/4	3736-0424
8	15/16	1-1/4	3736-0426
8	1	1-1/4	3736-0428
8	1/4	1-1/2	3736-0430
9	1/4	1-1/4	3736-0432
9	3/8	1-1/4	3736-0434
9	1/2	1-1/4	3736-0436
9	5/8	1-1/4	3736-0448
9	3/4	1-1/4	3736-0440
9	1	1-1/4	3736-0442
10	5/8	1-1/4	3736-0444
10	3/4	1-1/4	3736-0446
10	1/4	1-1/2	3736-0448
10	5/16	1-1/2	3736-0450
10	3/8	1-1/2	3736-0452
10	7/16	1-1/2	3736-0454
10	1/2	1-1/2	3736-0456
10	9/16	1-1/2	3736-0458
10	5/8	1-1/2	3736-0460
10	11/16	1-1/2	3736-0462
10	3/4	1-1/2	3736-0464
10	13/16	1-1/2	3736-0466
10	7/8	1-1/2	3736-0468
10	15/16	1-1/2	3736-0470
10	1	1-1/2	3736-0472
10	1-1/8	1-1/2	3736-0474
10	1-1/4	1-1/2	3736-0476
10	1-1/2	1-1/2	3736-0478

SIZE	WIDTH FACE	HOLE DIA	HSS ORDER No.
50	4	16	3738-0054
50	5	16	3739-0055
50	6	16	3739-0056
50	8	16	3739-0058
50	10	16	3739-0060
63	4	22	3739-0064
63	5	22	3739-0065
63	6	22	3739-0066
63	8	22	3739-0068
63	10	22	3739-0070

SIZE	WIDTH FACE	HOLE DIA	HSS ORDER No.
63	12	22	3739-0072
63	14	22	3739-0074
63	16	22	3739-0076
80	5	27	3739-0085
80	6	27	3739-0086
80	8	27	3739-0088
80	10	27	3739-0090
80	12	27	3739-0092
80	14	27	3739-0094
80	16	27	3739-0096

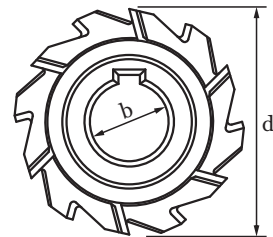
SIZE	WIDTH FACE	HOLE DIA	HSS ORDER No.
80	18	27	3739-0098
80	20	27	3739-0100
100	6	32	3739-0106
100	8	32	3739-0108
100	10	32	3739-0110
100	12	32	3739-0112
100	14	32	3739-0114
100	16	32	3739-0116
100	18	32	3739-0118
100	20	32	3739-0120

Mills Cutter

Staggered Tooth Side Milling Cutter

错齿三面刃铣刀

- * General Purpose Use
- * Extends tool life
- * Used for aggressive machining of steels



SIZE	WIDTH FACE	HOLE DIA	HSS ORDER No.
2-1/2	3/16	7/8	3737-0002
2-1/2	1/4	7/8	3737-0004
2-1/2	5/16	7/8	3737-0006
2-1/2	3/8	7/8	3737-0008
2-1/2	7/16	7/8	3737-0010
2-1/2	1/2	7/8	3737-0012
2-1/2	1/4	1	3737-0014
2-1/2	7/16	1	3737-0016
2-1/2	1/2	1	3737-0018
2-1/2	9/16	1	3737-0020
2-1/2	5/8	1	3737-0022
3	3/16	1	3737-0024
3	7/32	1	3737-0026
3	1/4	1	3737-0028
3	9/32	1	3737-0030
3	5/16	1	3737-0032
3	11/32	1	3737-0034
3	3/8	1	3737-0036
3	13/32	1	3737-0038
3	7/16	1	3737-0040
3	1/2	1	3737-0042
3	9/16	1	3737-0044
3	5/8	1	3737-0046
3	11/16	1	3737-0048
3	3/4	1	3737-0050
3	13/16	1	3737-0052
3	7/8	1	3737-0054
3	15/16	1	3737-0056
3	1	1	3737-0058
3	3/16	1-1/4	3737-0060
3	7/32	1-1/4	3737-0062
3	1/4	1-1/4	3737-0064
3	9/32	1-1/4	3737-0066
3	5/16	1-1/4	3737-0068
3	11/32	1-1/4	3737-0070
3	3/8	1-1/4	3737-0072
3	13/32	1-1/4	3737-0074
3	7/16	1-1/4	3737-0076
3	1/2	1-1/4	3737-0078
3	9/16	1-1/4	3737-0080
3	5/8	1-1/4	3737-0082
3	11/16	1-1/4	3737-0084
3	3/4	1-1/4	3737-0086
3	13/16	1-1/4	3737-0088
3	7/8	1-1/4	3737-0090
3	15/16	1-1/4	3737-0092
3	1	1-1/4	3737-0094

SIZE	WIDTH FACE	HOLE DIA	HSS ORDER No.
3-1/2	1/4	1	3737-0096
3-1/2	5/16	1	3737-0098
3-1/2	3/8	1	3737-0100
3-1/2	1/2	1	3737-0102
3-1/2	5/8	1	3737-0104
3-1/2	11/16	1	3737-0106
4	3/16	1	3737-0108
4	7/32	1	3737-0110
4	1/4	1	3737-0112
4	9/32	1	3737-0114
4	5/16	1	3737-0116
4	11/32	1	3737-0118
4	3/8	1	3737-0120
4	13/32	1	3737-0122
4	7/16	1	3737-0124
4	1/2	1	3737-0126
4	9/16	1	3737-0128
4	5/8	1	3737-0130
4	11/16	1	3737-0132
4	3/4	1	3737-0134
4	13/16	1	3737-0136
4	7/8	1	3737-0138
4	15/16	1	3737-0140
4	1	1	3737-0142
4	1-1/8	1	3737-0144
4	1-1/4	1	3737-0146
4	1-1/2	1	3737-0148
4	3/16	1-1/4	3737-0150
4	7/32	1-1/4	3737-0152
4	1/4	1-1/4	3737-0154
4	9/32	1-1/4	3737-0156
4	5/16	1-1/4	3737-0158
4	11/32	1-1/4	3737-0160
4	3/8	1-1/4	3737-0162
4	13/32	1-1/4	3737-0164
4	7/16	1-1/4	3737-0166
4	1/2	1-1/4	3737-0168
4	9/16	1-1/4	3737-0170
4	5/8	1-1/4	3737-0172
4	11/16	1-1/4	3737-0174
4	3/4	1-1/4	3737-0176
4	13/16	1-1/4	3737-0178
4	7/8	1-1/4	3737-0180
4	15/16	1-1/4	3737-0182
4	1	1-1/4	3737-0184
4	1-1/8	1-1/4	3737-0186
4	1-1/4	1-1/4	3737-0188

SIZE	WIDTH FACE	HOLE DIA	HSS ORDER No.
4	1-1/2	1-1/4	3737-0190
4-1/2	1/2	1	3737-0192
4-1/2	1/2	1-1/4	3737-0194
5	1/4	1	3737-0196
5	5/16	1	3737-0198
5	3/8	1	3737-0200
5	7/16	1	3737-0202
5	1/2	1	3737-0204
5	9/16	1	3737-0206
5	5/8	1	3737-0208
5	11/16	1	3737-0210
5	3/4	1	3737-0212
5	13/16	1	3737-0214
5	7/8	1	3737-0216
5	15/16	1	3737-0218
5	1/4	1-1/4	3737-0220
5	5/16	1-1/4	3737-0222
5	3/8	1-1/4	3737-0224
5	7/16	1-1/4	3737-0226
5	1/2	1-1/4	3737-0228
5	9/16	1-1/4	3737-0230
5	5/8	1-1/4	3737-0232
5	11/16	1-1/4	3737-0234
5	3/4	1-1/4	3737-0236
5	13/16	1-1/4	3737-0238
5	7/8	1-1/4	3737-0240
5	15/16	1-1/4	3737-0242
5	1	1-1/4	3737-0244
6	1/4	1	3737-0246
6	9/32	1	3737-0248
6	5/16	1	3737-0250
6	3/8	1	3737-0252
6	7/16	1	3737-0254
6	1/2	1	3737-0256
6	9/16	1	3737-0258
6	5/8	1	3737-0260
6	11/16	1	3737-0262
6	3/4	1	3737-0264
6	13/16	1	3737-0266
6	7/8	1	3737-0268
6	15/16	1	3737-0270
6	1	1	3737-0272
6	1/4	1-1/4	3737-0274
6	9/32	1-1/4	3737-0276
6	5/16	1-1/4	3737-0278
6	11/32	1-1/4	3737-0280
6	3/8	1-1/4	3737-0282

Mills Cutter

SIZE	WIDTH FACE	HOLE DIA	HSS ORDER No.
6	13/32	1-1/4	3737-0284
6	7/16	1-1/4	3737-0286
6	1/2	1-1/4	3737-0288
6	9/16	1-1/4	3737-0290
6	5/8	1-1/4	3737-0292
6	11/16	1-1/4	3737-0294
6	3/4	1-1/4	3737-0296
6	13/16	1-1/4	3737-0298
6	7/8	1-1/4	3737-0300
6	15/16	1-1/4	3737-0302
6	1	1-1/4	3737-0304
6	1-1/8	1-1/4	3737-0306
6	1-3/16	1-1/4	3737-0308
6	1	1-1/2	3737-0314
7	1/4	1-1/4	3737-0316
7	5/16	1-1/4	3737-0318
7	3/8	1-1/4	3737-0320
7	7/16	1-1/4	3737-0322
7	1/2	1-1/4	3737-0324
7	9/16	1-1/4	3737-0326
7	5/8	1-1/4	3737-0328
7	11/16	1-1/4	3737-0330
7	3/4	1-1/4	3737-0332
7	13/16	1-1/4	3737-0334
7	7/8	1-1/4	3737-0336
7	15/16	1-1/4	3737-0338
7	1	1-1/4	3737-0340
7	3/8	1-1/2	3737-0342
7	7/16	1-1/2	3737-0344
7	1/2	1-1/2	3737-0346
7	5/8	1-1/2	3737-0348
7	3/4	1-1/2	3737-0350

SIZE	WIDTH FACE	HOLE DIA	HSS ORDER No.
7	7/8	1-1/2	3737-0352
7	1	1-1/2	3737-0354
8	1/4	1	3737-0356
8	3/8	1	3737-0358
8	1/2	1	3737-0360
8	1/4	1-1/4	3737-0362
8	5/16	1-1/4	3737-0364
8	3/8	1-1/4	3737-0366
8	7/16	1-1/4	3737-0368
8	1/2	1-1/4	3737-0370
8	9/16	1-1/4	3737-0372
8	5/8	1-1/4	3737-0374
8	11/16	1-1/4	3737-0376
8	3/4	1-1/4	3737-0378
8	13/16	1-1/4	3737-0380
8	7/8	1-1/4	3737-0382
8	15/16	1-1/4	3737-0384
8	1	1-1/4	3737-0386
8	1/4	1-1/2	3737-0388
8	5/16	1-1/2	3737-0390
8	3/8	1-1/2	3737-0392
8	7/16	1-1/2	3737-0394
8	5/8	1-1/2	3737-0400
8	11/16	1-1/2	3737-0402
8	3/4	1-1/2	3737-0404
8	13/16	1-1/2	3737-0406
8	7/8	1-1/2	3737-0408
8	15/16	1-1/2	3737-0410
8	1	1-1/2	3737-0412
8	1-1/8	1-1/2	3737-0414
8	1-1/4	1-1/2	3737-0416
8	1-1/2	1-1/2	3737-0418

SIZE	WIDTH FACE	HOLE DIA	HSS ORDER No.
9	1/4	1-1/4	3737-0420
9	3/8	1-1/4	3737-0422
9	1/2	1-1/4	3737-0424
9	5/8	1-1/4	3737-0426
9	3/4	1-1/4	3737-0428
9	1	1-1/2	3737-0430
9	1/4	1-1/2	3737-0432
9	3/8	1-1/2	3737-0434
9	1/2	1-1/2	3737-0436
9	5/8	1-1/2	3737-0438
9	3/4	1-1/2	3737-0440
9	1	1-1/2	3737-0442
10	3/8	1-1/4	3737-0444
10	13/16	1-1/4	3737-0446
10	15/16	1-1/2	3737-0448
10	1/4	1-1/2	3737-0450
10	5/16	1-1/2	3737-0452
10	3/8	1-1/2	3737-0454
10	7/16	1-1/2	3737-0456
10	1/2	1-1/2	3737-0458
10	9/16	1-1/2	3737-0460
10	5/8	1-1/2	3737-0462
10	11/16	1-1/2	3737-0464
10	3/4	1-1/2	3737-0466
10	13/16	1-1/2	3737-0468
10	7/8	1-1/2	3737-0470
10	15/16	1-1/2	3737-0472
10	1	1-1/2	3737-0474
10	1-1/8	1-1/2	3737-0476
10	1-1/4	1-1/2	3737-0478
10	1-1/2	1-1/2	3737-0480

SIZE	WIDTH FACE	HOLE DIA	HSS ORDER No.
50	4	16	3738-0054
50	5	16	3738-0055
50	6	16	3738-0056
50	8	16	3738-0058
50	10	16	3738-0060
63	4	22	3738-0064
63	5	22	3738-0065
63	6	22	3738-0066
63	8	22	3738-0068
63	10	22	3738-0070

SIZE	WIDTH FACE	HOLE DIA	HSS ORDER No.
63	12	22	3738-0072
63	14	22	3738-0074
63	16	22	3738-0076
80	5	27	3738-0085
80	6	27	3738-0086
80	8	27	3738-0088
80	10	27	3738-0090
80	12	27	3738-0092
80	14	27	3738-0094
80	16	27	3738-0096

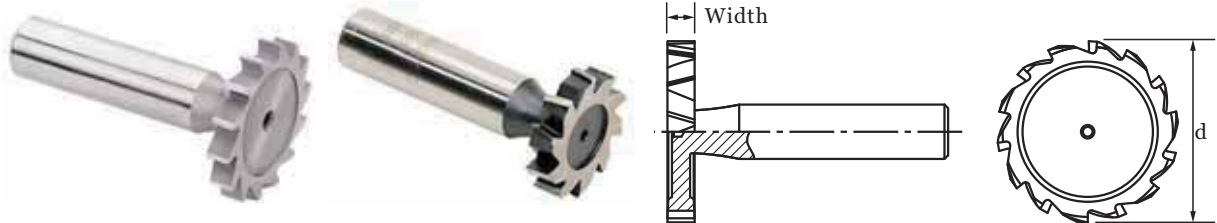
SIZE	WIDTH FACE	HOLE DIA	HSS ORDER No.
80	18	27	3738-0098
80	20	27	3738-0100
100	6	32	3738-0106
100	8	32	3738-0108
100	10	32	3738-0110
100	12	32	3738-0112
100	14	32	3738-0114
100	16	32	3738-0116
100	18	32	3738-0118
100	20	32	3738-0120

Mills Cutter

Woodruff Keyseat Cutter

直齿、错齿半圆键铣刀

- * Right Hand
- * Extremely versatile profile milling cutters.
- * 1/2 Shank.



Model No	CUTTER DIA	WIDTH	STAGGERED ORDER No.	STRAIGHT ORDER No.
202	1/4	1/16	3800-0020	3800-1020
202-1/2	5/16	1/16	3800-0022	3800-1022
302-1/2	5/16	3/32	3800-0024	3800-1024
203	3/8	1/16	3800-0026	3800-1026
303	3/8	3/32	3800-0028	3800-1028
403	3/8	1/8	3800-0030	3800-1030
204	1/2	1/16	3800-0032	3800-1032
304	1/2	3/32	3800-0034	3800-1034
404	1/2	1/8	3800-0036	3800-1036
305	5/8	3/32	3800-0038	3800-1038
405	5/8	1/8	3800-0040	3800-1040
505	5/8	5/32	3800-0042	3800-1042
605	5/8	3/16	3800-0044	3800-1044
406	3/4	1/8	3800-0046	3800-1046
506	3/4	5/32	3800-0048	3800-1048
606	3/4	3/16	3800-0050	3800-1050
806	3/4	1/4	3800-0052	3800-1052
507	7/8	5/32	3800-0054	3800-1054
607	7/8	3/16	3800-0056	3800-1056
707	7/8	7/32	3800-0058	3800-1058
807	7/8	1/4	3800-0060	3800-1060

Model No	CUTTER DIA	WIDTH	STAGGERED ORDER No.	STRAIGHT ORDER No.
608	1	3/16	3800-0062	3800-1062
708	1	7/32	3800-0064	3800-1064
808	1	1/4	3800-0066	3800-1066
1008	1	5/16	3800-0068	3800-1068
1208	1	3/8	3800-0070	3800-1070
609	1-1/8	3/16	3800-0072	3800-1072
709	1-1/8	7/32	3800-0074	3800-1074
809	1-1/8	1/4	3800-0076	3800-1076
1009	1-1/8	5/16	3800-0078	3800-1078
610	1-1/4	3/16	3800-0080	3800-1080
710	1-1/4	7/32	3800-0082	3800-1082
810	1-1/4	1/4	3800-0084	3800-1084
1010	1-1/4	5/16	3800-0086	3800-1086
1210	1-1/4	3/8	3800-0088	3800-1088
811	1-3/8	1/4	3800-0090	3800-1090
1011	1-3/8	5/16	3800-0092	3800-1092
1211	1-3/8	3/8	3800-0094	3800-1094
812	1-1/2	1/4	3800-0096	3800-1096
1012	1-1/2	5/16	3800-0098	3800-1098
1212	1-1/2	3/8	3800-0100	3800-1100

Model No	CUTTER DIA	WIDTH	STAGGERED ORDER No.	STRAIGHT ORDER No.
10.5	2	57	3801-2012	3801-3012
10.5	2.5	57	3801-2014	3801-3014
10.5	3	57	3801-2016	3801-3016
13.5	2	57	3801-2018	3801-3018
13.5	2.5	57	3801-2020	3801-3020
13.5	3	57	3801-2022	3801-3022
13.5	4	57	3801-2024	3801-3024
16.5	2.5	57	3801-2026	3801-3026
16.5	3	57	3801-2028	3801-3028
16.5	4	57	3801-2030	3801-3030
16.5	5	57	3801-2032	3801-3032
19.5	3	57	3801-2034	3801-3034
19.5	4	57	3801-2036	3801-3036
19.5	5	57	3801-2038	3801-3038
22.5	4	63.5	3801-2040	3801-3040
22.5	5	63.5	3801-2042	3801-3042
22.5	6	63.5	3801-2044	3801-3044
25.5	5	70	3801-2046	3801-3046
25.5	6	70	3801-2048	3801-3048

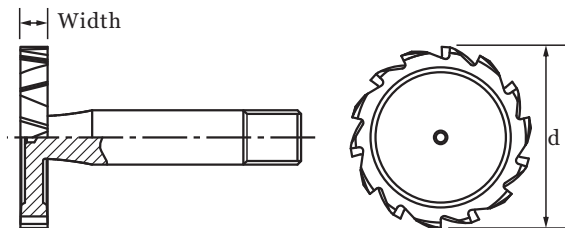
Model No	CUTTER DIA	WIDTH	STAGGERED ORDER No.	STRAIGHT ORDER No.
25.5	7	70	3801-2050	3801-3050
25.5	8	70	3801-2052	3801-3052
28.5	5	70	3801-2054	3801-3054
28.5	6	70	3801-2056	3801-3056
28.5	7	70	3801-2058	3801-3058
28.5	8	70	3801-2060	3801-3060
32.5	5	70	3801-2062	3801-3062
32.5	6	70	3801-2064	3801-3064
32.5	7	70	3801-2066	3801-3066
32.5	8	70	3801-2068	3801-3068
35.5	6	76	3801-2070	3801-3070
35.5	7	76	3801-2072	3801-3072
35.5	8	76	3801-2074	3801-3074
35.5	9	76	3801-2076	3801-3076
38.5	7	76	3801-2078	3801-3078
38.5	8	76	3801-2080	3801-3080
38.5	9	76	3801-2082	3801-3082
38.5	10	76	3801-2084	3801-3084
45.5	10	76	3801-2086	3801-3086

Mills Cutter

Woodruff Keyseat Cutter

直齿、锯齿螺纹柄半圆键铣刀

- * Right Hand
- * Extremely versatile profile milling cutters.
- * Screwed BSW Shank.



Model No	CUTTER DIA	WIDTH	STAGGERED ORDER No.	STRAIGHT ORDER No.
202	1/4	1/16	3802-0020	3802-1020
202-1/2	5/16	1/16	3802-0022	3802-1022
302-1/2	5/16	3/32	3802-0024	3802-1024
203	3/8	1/16	3802-0026	3802-1026
303	3/8	3/32	3802-0028	3802-1028
403	3/8	1/8	3802-0030	3802-1030
204	1/2	1/16	3802-0032	3802-1032
304	1/2	3/32	3802-0034	3802-1034
404	1/2	1/8	3802-0036	3802-1036
305	5/8	3/32	3802-0038	3802-1038
405	5/8	1/8	3802-0040	3802-1040
505	5/8	5/32	3802-0042	3802-1042
605	5/8	3/16	3802-0044	3802-1044
406	3/4	1/8	3802-0046	3802-1046
506	3/4	5/32	3802-0048	3802-1048
606	3/4	3/16	3802-0050	3802-1050
806	3/4	1/4	3802-0052	3802-1052
507	7/8	5/32	3802-0054	3802-1054
607	7/8	3/16	3802-0056	3802-1056
707	7/8	7/32	3802-0058	3802-1058
807	7/8	1/4	3802-0060	3802-1060

Model No	CUTTER DIA	WIDTH	STAGGERED ORDER No.	STRAIGHT ORDER No.
608	1	3/16	3802-0062	3802-1062
708	1	7/32	3802-0064	3802-1064
808	1	1/4	3802-0066	3802-1066
1008	1	5/16	3802-0068	3802-1068
1208	1	3/8	3802-0070	3802-1070
609	1-1/8	3/16	3802-0072	3802-1072
709	1-1/8	7/32	3802-0074	3802-1074
809	1-1/8	1/4	3802-0076	3802-1076
1009	1-1/8	5/16	3802-0078	3802-1078
610	1-1/4	3/16	3802-0080	3802-1080
710	1-1/4	7/32	3802-0082	3802-1082
810	1-1/4	1/4	3802-0084	3802-1084
1010	1-1/4	5/16	3802-0086	3802-1086
1210	1-1/4	3/8	3802-0088	3802-1088
811	1-3/8	1/4	3802-0090	3802-1090
1011	1-3/8	5/16	3802-0092	3802-1092
1211	1-3/8	3/8	3802-0094	3802-1094
812	1-1/2	1/4	3802-0096	3802-1096
1012	1-1/2	5/16	3802-0098	3802-1098
1212	1-1/2	3/8	3802-0100	3802-1100

Model No	CUTTER DIA	WIDTH	STAGGERED ORDER No.	STRAIGHT ORDER No.
10.5	2	57	3803-2012	3803-3012
10.5	2.5	57	3803-2014	3803-3014
10.5	3	57	3803-2016	3803-3016
13.5	2	57	3803-2018	3803-3018
13.5	2.5	57	3803-2020	3803-3020
13.5	3	57	3803-2022	3803-3022
13.5	4	57	3803-2024	3803-3024
16.5	2.5	57	3803-2026	3803-3026
16.5	3	57	3803-2028	3803-3028
16.5	4	57	3803-2030	3803-3030
16.5	5	57	3803-2032	3803-3032
19.5	3	57	3803-2034	3803-3034
19.5	4	57	3803-2036	3803-3036
19.5	5	57	3803-2038	3803-3038
22.5	4	63.5	3803-2040	3803-3040
22.5	5	63.5	3803-2042	3803-3042
22.5	6	63.5	3803-2044	3803-3044
25.5	5	70	3803-2046	3803-3046
25.5	6	70	3803-2048	3803-3048

Model No	CUTTER DIA	WIDTH	STAGGERED ORDER No.	STRAIGHT ORDER No.
25.5	7	70	3803-2050	3803-3050
25.5	8	70	3803-2052	3803-3052
28.5	5	70	3803-2054	3803-3054
28.5	6	70	3803-2056	3803-3056
28.5	7	70	3803-2058	3803-3058
28.5	8	70	3803-2060	3803-3060
32.5	5	70	3803-2062	3803-3062
32.5	6	70	3803-2064	3803-3064
32.5	7	70	3803-2066	3803-3066
32.5	8	70	3803-2068	3803-3068
35.5	6	76	3803-2070	3803-3070
35.5	7	76	3803-2072	3803-3072
35.5	8	76	3803-2074	3803-3074
35.5	9	76	3803-2076	3803-3076
38.5	7	76	3803-2078	3803-3078
38.5	8	76	3803-2080	3803-3080
38.5	9	76	3803-2082	3803-3082
38.5	10	76	3803-2084	3803-3084
45.5	10	76	3803-2086	3803-3086

Mills Cutter

Woodruff Keyseat Cutters Sets

套装半圆键

- * Straight or Staggered Tooth
- * With wooden case



10Pcs Woodruff Keyseat Cutter Sets

10Pcs/Set: Includes

Size:

403,204,404,305,505,406,606,806,608,808

Staggered ORDER No.3800-0101

Straight ORDER No.3800-1101

Staggered Tin-Coated ORDER No.3800-0201

Straight Tin-Coated ORDER No.3800-1201

41Pcs Woodruff Keyseat Cutter Sets

41Pcs/Set: Includes

Size:

All standard size from No.202 to 1212

Staggered ORDER No.3800-0411

Straight ORDER No.3800-1411

Staggered Tin-Coated ORDER No.3800-0511

Straight Tin-Coated ORDER No.3800-1511

8Pcs Woodruff Keyseat Cutter Sets

8Pcs/Set: Includes

Size:

204,304,305,406,605,606,608,806

Staggered ORDER No.3800-0081

Straight ORDER No.3800-1081

Staggered Tin-Coated ORDER No.3800-0181

Straight Tin-Coated ORDER No.3800-1181

9Pcs Woodruff Keyseat Cutter Sets

9Pcs/Set: Includes

Size:

204,404,406,606,806,608,808,610,1210

Staggered ORDER No.3800-0091

Straight ORDER No.3800-1091

Staggered Tin-Coated ORDER No.3800-0191

Straight Tin-Coated ORDER No.3800-1191

23Pcs Woodruff Keyseat Cutter Sets

23Pcs/Set: Includes

Size:

203,303,403,204,304,404,406,506,606,806

608,708,808,1008,1208,610,710,810,1010

1210,812,1012,1212

Staggered ORDER No.3800-0231

Straight ORDER No.3800-1231

Staggered Tin-Coated ORDER No.3800-0331

Straight Tin-Coated ORDER No.3800-1331

9Pcs Woodruff Keyseat Cutter Sets

9Pcs/Set: Includes

Size:

10.5x(2,3);19.5(4,5,6);22.5x(5);25.5x(6);28.5x(8)

32.5x(10)

Staggered ORDER No.3801-0191

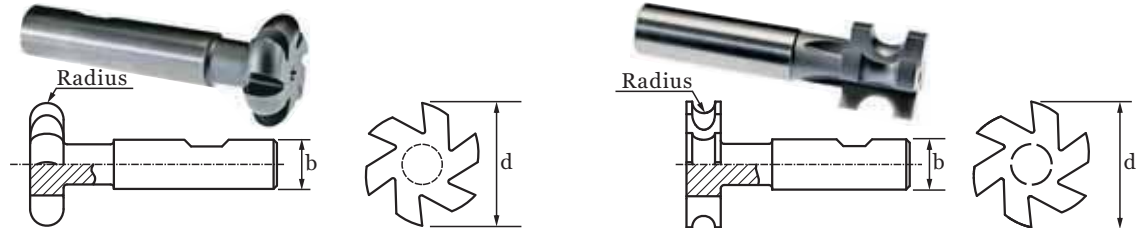
Straight ORDER No.3801-1191

Staggered Tin-Coated ORDER No.3801-2191

Straight Tin-Coated ORDER No.3801-3191

Convex and Concave Shank Type Cutter

四、凸半圆键铣刀

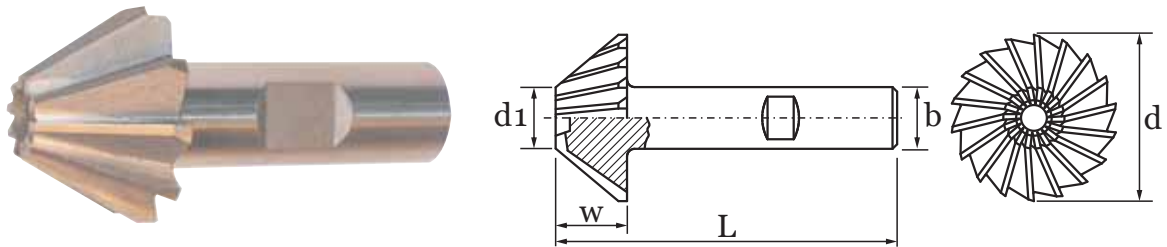


RADIUS	CUTTER d	SHANK b	No.Of Flutes	OVERALL LENGTH	HSS ORDER No.
1/32	3/4	1/2	6	3	3805-0010
1/16	3/4	1/2	6	3	3805-0015
3/32	7/8	1/2	6	3	3805-0020
1/8	1-1/4	3/4	6	3-1/2	3805-0025
5/32	1-5/16	3/4	6	3-1/2	3805-0030
3/16	1-3/8	3/4	6	3-1/2	3805-0035
1/4	1-1/2	3/4	4	4	3805-0040
5/16	1-3/4	3/4	4	4	3805-0045
3/8	1-7/8	3/4	4	4	3805-0050

RADIUS	CUTTER d	SHANK b	No.Of Flutes	OVERALL LENGTH	HSS ORDER No.
1/32	3/4	1/2	6	3	3806-0010
1/16	3/4	1/2	6	3	3806-0015
3/32	7/8	1/2	6	3	3806-0020
1/8	1-1/4	3/4	6	3-1/2	3806-0025
5/32	1-5/16	3/4	6	3-1/2	3806-0030
3/16	1-3/8	3/4	6	3-1/2	3806-0035
1/4	1-1/2	3/4	4	4	3806-0040
5/16	1-3/4	3/4	4	4	3806-0045
3/8	1-7/8	3/4	4	4	3806-0050

Facr Angle Shank Type Cutter

小面单角度铣刀



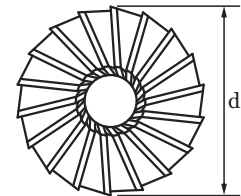
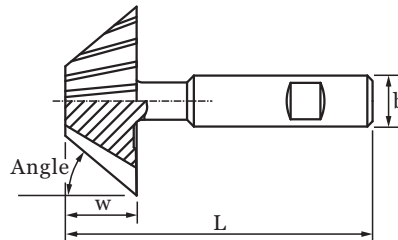
LARGE CUTTER d	SMALL CUTTER d1	CUTTER W	SHANK b	OVERALL LENGTH L	ANGLE	No.Of Flutes	UN-Coated ORDER No.	Tin-Coated ORDER No.	HSS-Co ORDER No.	HSS-Co Tin ORDER No.
3/4	5/16	17/32	3/8	2-3/32	60°	8	3808-0034	3808-1034	3808-3034	3808-5034
1	3/8	11/16	1/2	2-13/32	60°	8	3808-0100	3808-1100	3808-3100	3808-5100
1-1/4	1/2	25/32	5/8	2-21/32	60°	10	3808-0114	3808-1114	3808-3114	3808-5114
1-5/8	5/8	1-1/16	3/4	3-1/16	60°	10	3808-0158	3808-1158	3808-3158	3808-5158
3/4	5/16	3/8	3/8	1-15/16	90°	8	3808-4034	3808-2034	3808-6034	3808-7034
1	3/8	7/16	1/2	2-3/16	90°	8	3808-4100	3808-2100	3808-6100	3808-7100
1-1/4	1/2	17/32	5/8	2-13/32	90°	10	3808-4114	3808-2114	3808-6114	3808-7114
1-5/8	5/8	11/16	3/4	2-11/16	90°	10	3808-4158	3808-2158	3808-6158	3808-7158

Mills Cutter

Sing Angle Cutters Shank Type

圆柄单角度铣刀

* For all dovetail work, production & tool room work.
* Right hand , 45° or 60° .
* Weldon flats, Straight Tooth.

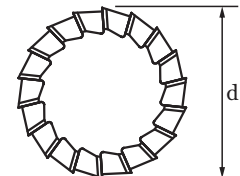
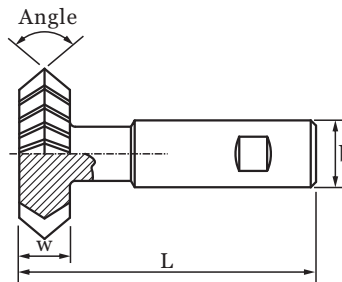


SIZE	CUTTER WIDTH	SHANK DIA	OAL	ANGLE	UN-Coated ORDER No.	Tin-Coated ORDER No.
1/2	1/8	3/8	2-1/8	45°	3807-0012	3807-1012
3/4	3/16	3/8	2-1/8	45°	3807-0034	3807-1034
1	5/16	1/2	2-1/2	45°	3807-0100	3807-1100
1-1/2	1/2	3/4	2-3/4	45°	3807-0112	3807-1112

SIZE	CUTTER WIDTH	SHANK DIA	OAL	ANGLE	UN-Coated ORDER No.	Tin-Coated ORDER No.
1/2	7/32	3/8	2-1/8	60°	3807-3012	3807-1012
3/4	5/16	3/8	2-1/8	60°	3807-3034	3807-1034
1	7/16	1/2	2-1/2	60°	3807-3100	3807-1100
1-1/2	5/8	3/4	2-3/4	60°	3807-3112	3807-1112

Double Angle Cutters Shank Type

圆柄双角度铣刀



SIZE d	CUTTER WIDTH w	SHANK b	OAL L	ANGLE	UN-Coated ORDER No.	Tin-Coated ORDER No.
3/4	3/16	3/8	2-3/8	60°	3819-0005	3819-1005
1	5/16	1/2	2-27/32	60°	3819-0015	3819-1015
1-3/8	7/16	5/8	3-7/32	60°	3819-0020	3819-1020
1-1/2	1/2	5/8	3-3/8	60°	3819-0025	3819-1025
1-7/8	5/8	3/4	3-25/32	60°	3819-0030	3819-1030
2-1/4	3/4	7/8	4-5/32	60°	3819-0035	3819-1035

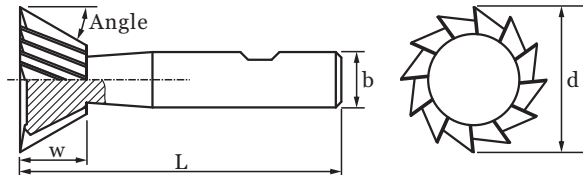
SIZE d	CUTTER WIDTH w	SHANK b	OAL L	ANGLE	UN-Coated ORDER No.	Tin-Coated ORDER No.
3/4	1/4	3/8	2-3/8	90°	3819-0045	3819-1045
1	3/8	1/2	2-29/32	90°	3819-0055	3819-1055
1-3/8	1/2	5/8	3-9/32	90°	3819-0060	3819-1060
1-1/2	9/16	5/8	3-7/16	90°	3819-0065	3819-1065
1-7/8	5/8	3/4	3-25/32	90°	3819-0070	3819-1070
2-1/4	3/4	7/8	4-5/32	90°	3819-0075	3819-1075

Mills Cutter

Dovetail Angular Cutters

燕尾槽铣刀

* For dovetail and angle cutting.
* Right hand, 45° or 60°.



SIZE d	CUTTER WIDTH w	SHANK b	OAL L	ANGLE	UN-Coated ORDER No.	Tin-Coated ORDER No.
3/8	1/8	3/8	2-1/8	45°	3814-0038	3814-0039
1/2	5/32	3/8	2-1/8	45°	3814-0012	3814-0013
3/4	1/4	3/8	2-1/8	45°	3814-0034	3814-0035
1-3/8	7/16	5/8	2-7/8	45°	3814-0138	3814-0139
1-7/8	9/16	7/8	3-1/4	45°	3814-0178	3814-0179
2-1/4	5/8	1	3-3/4	45°	3814-0214	3814-0215

SIZE d	CUTTER WIDTH w	SHANK b	OAL L	ANGLE	UN-Coated ORDER No.	Tin-Coated ORDER No.
3/8	3/16	3/8	2-1/8	60°	3814-1038	3814-1039
1/2	1/4	3/8	2-1/8	60°	3814-1012	3814-1013
3/4	5/16	3/8	2-1/8	60°	3814-1034	3814-1035
1-3/8	9/16	5/8	2-7/8	60°	3814-1138	3814-1139
1-7/8	13/16	7/8	3-1/4	60°	3814-1178	3814-1179
2-1/4	1-1/16	1	3-3/4	60°	3814-1214	3814-1215

SIZE d	CUTTER WIDTH w	SHANK b	OAL L	ANGLE	UN-Coated ORDER No.	Tin-Coated ORDER No.
13	4	12	54	45°	3816-0013	3816-0113
16	4	12	60	45°	3816-0016	3816-0116
19	5	12	63	45°	3816-0019	3816-0119
25	6.3	12	67	45°	3816-0025	3816-0125
32	8	16	71	45°	3816-0032	3816-0132

SIZE d	CUTTER WIDTH w	SHANK b	OAL L	ANGLE	UN-Coated ORDER No.	Tin-Coated ORDER No.
13	5.8	12	54	60°	3816-1013	3816-1113
16	6.3	12	60	60°	3816-1016	3816-1116
19	8	12	63	60°	3816-1019	3816-1119
25	10	12	67	60°	3816-1025	3816-1125
32	12.5	16	71	60°	3816-1032	3816-1132

Dovetail Angular Cutters Screwed Shank

螺纹柄燕尾槽铣刀



SIZE	CUTTER WIDTH	SHANK DIA	OAL	ANGLE	UN-Coated ORDER No.	Tin-Coated ORDER No.
1/2	1/8	1/2	2-5/8	45°	3815-0010	3815-0110
5/8	5/32	1/2	2-5/8	45°	3815-0012	3815-0112
3/4	7/32	1/2	2-5/8	45°	3815-0014	3815-0114
7/8	1/4	1/2	2-11/16	45°	3815-0016	3815-0116
1	5/16	1/2	2-3/4	45°	3815-0018	3815-0118
1-1/8	11/32	5/8	2-15/16	45°	3815-0020	3815-0120
1-1/4	11/32	5/8	2-15/16	45°	3815-0022	3815-0122
1-3/8	3/8	1	3-1/16	45°	3815-0024	3815-0124
1-1/2	13/32	1	3-3/32	45°	3815-0026	3815-0126

SIZE	CUTTER WIDTH	SHANK DIA	OAL	ANGLE	UN-Coated ORDER No.	Tin-Coated ORDER No.
1/2	5/32	1/2	2-1/2	60°	3815-0032	3815-0132
5/8	7/32	1/2	2-5/8	60°	3815-0034	3815-0134
3/4	9/32	1/2	2-21/32	60°	3815-0036	3815-0136
7/8	3/8	1/2	2-21/32	60°	3815-0038	3815-0138
1	15/32	1/2	2-3/4	60°	3815-0040	3815-0140
1-1/8	1/2	5/8	2-7/8	60°	3815-0042	3815-0142
1-1/4	17/32	5/8	2-15/16	60°	3815-0044	3815-0144
1-3/8	9/16	1	3-1/4	60°	3815-0046	3815-0146
1-1/2	5/8	1	3-5/16	60°	3815-0048	3815-0148

SIZE	CUTTER WIDTH	SHANK DIA	OAL	ANGLE	UN-Coated ORDER No.	Tin-Coated ORDER No.
13	3	12	63.5	45°	3817-0013	3817-0113
16	4	12	66.5	45°	3817-0016	3817-0116
19	5	12	66.5	45°	3817-0019	3817-0119
22	6.5	12	68.5	45°	3817-0022	3817-0122
25	7.5	12	70	45°	3817-0025	3817-0125
28	8.5	16	71.5	45°	3817-0028	3817-0128
32	8.5	16	74.5	45°	3817-0032	3817-0132
35	9.5	25	79.5	45°	3817-0035	3817-0135
38	10.5	25	80	45°	3817-0038	3817-0138

SIZE	CUTTER WIDTH	SHANK DIA	OAL	ANGLE	UN-Coated ORDER No.	Tin-Coated ORDER No.
13	4	12	63.5	60°	3817-1013	3817-1113
16	5.5	12	66.5	60°	3817-1016	3817-1116
19	7	12	66.5	60°	3817-1019	3817-1119
22	9.5	12	68.5	60°	3817-1022	3817-1122
25	12	12	70	60°	3817-1025	3817-1125
28	12.5	16	71.5	60°	3817-1028	3817-1128
32	13.5	16	74.5	60°	3817-1032	3817-1132
35	14.5	25	84	60°	3817-1035	3817-1135
38	18	25	85.5	60°	3817-1038	3817-1138

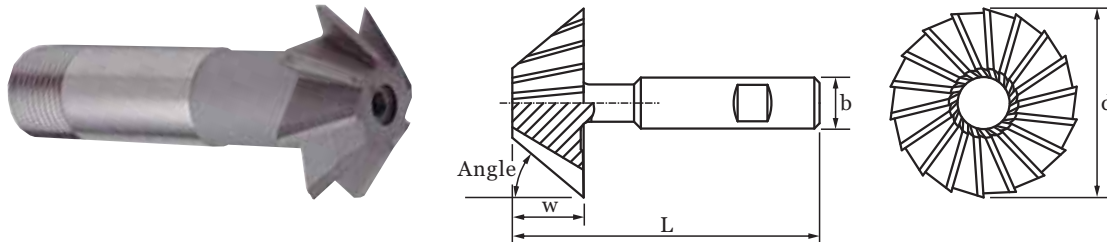
Tolerances: Dia: +0.25/-0.00

Mills Cutter

Inverted Dovetail Angle Screwed Shank Type

螺纹柄反燕尾铣刀

* For all dovetail work, production & tool room work.
* Right hand , 45° or 60° .
* Weldon flats, Straight Tooth.



SIZE d	CUTTER WIDTH w	SHANK b	OAL L	ANGLE	UN-Coated ORDER No.	Tin-Coated ORDER No.
1	5/16	1/2	2-3/4	45°	3807-1113	3807-2113
1-1/2	13/32	1	3-5/32	45°	3807-1114	3807-2114

SIZE d	CUTTER WIDTH w	SHANK b	OAL L	ANGLE	UN-Coated ORDER No.	Tin-Coated ORDER No.
1	15/32	1/2	2-3/4	60°	3807-1115	3807-2115
1-1/2	5/8	1	3-3/8	60°	3807-1116	3807-2116

13*	3.7	12	58	45°	3807-4200	3807-5200
16	4	12	66.5	45°	3807-4201	3807-5201
19	5.5	12	66.5	45°	3807-4202	3807-5202
20*	5	12	63	45°	3807-4240	3807-5240
22	7.5	12	68.5	45°	3807-4203	3807-5203
25	8.5	12	70	45°	3807-4204	3807-5204
28	8.5	16	71.5	45°	3807-4205	3807-5205
32	8.5	16	74.5	45°	3807-4206	3807-5206

13*	4.3	12	58	60°	3807-4241	3807-5241
16	5.5	12	66.5	60°	3807-4207	3807-5201
19	7	12	66.5	60°	3807-4208	3807-5202
20*	8	12	63	60°	3807-4242	3807-5242
22	12	12	68.5	60°	3807-4209	3807-5203
25	12.5	12	70	60°	3807-4210	3807-5204
28	13.5	16	71.5	60°	3807-4211	3807-5205
32	13.5	16	74.5	60°	3807-4212	3807-5206

Dovetail Angular Cutters Sets

套装燕尾铣刀



4Pcs/Set Dovetail Cutters

4pcs/set: Include

3/8, 1/2, 3/4 and 1-3/8

1 Packed in wooden Case

Screwed Shank

45° UN-Coated Order No.3818-0045 (Order No.3823-0045)

45° Tin-Coated Order No. 3818-0145 (Order No.3823-0145)

60° UN-Coated Order No.3818-1045 (Order No.3823-1045)

60° Tin-Coated Order No. 3818-1145 (Order No.3823-1145)

5Pcs/Set Dovetail Cutters

5pcs/set: Include

3/8, 1/2, 3/4, 1-3/8 and 1-7/8

1 Packed in wooden Case

Screwed Shank

45° UN-Coated Order No.3818-0050 (Order No.3823-0050)

45° Tin-Coated Order No. 3818-0150 (Order No.3823-0150)

60° UN-Coated Order No.3818-1050 (Order No.3823-1050)

60° Tin-Coated Order No. 3818-1150 (Order No.3823-1150)

5Pcs/Set Dovetail Cutters

5pcs/set: Include

13, 16, 19, 25 and 32mm

1 Packed in wooden Case

Screwed Shank

45° UN-Coated Order No.3818-0051 (Order No.3823-0051)

45° Tin-Coated Order No. 3818-0151 (Order No.3823-0151)

60° UN-Coated Order No.3818-1051 (Order No.3823-1051)

60° Tin-Coated Order No. 3818-1151 (Order No.3823-1151)

5Pcs/Set Dovetail Cutters

5pcs/set: Include

1/2, 3/4, 1-3/8, 1-7/8 and 2-1/4

1 Packed in wooden Case

Screwed Shank

45° UN-Coated Order No.3818-0055 (Order No.3823-0055)

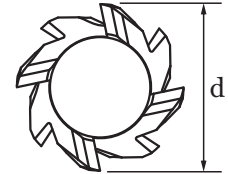
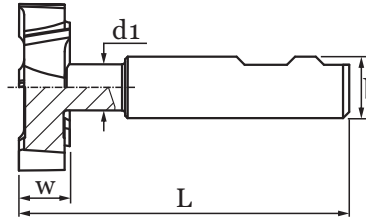
45° Tin-Coated Order No. 3818-0155 (Order No.3823-0155)

60° UN-Coated Order No.3818-1055 (Order No.3823-1055)

60° Tin-Coated Order No. 3818-1155 (Order No.3823-1155)

T-Slot Cutters

T型槽铣刀



BOLT SIZE	CUTTER DIA d	CUTTER WIDTH w	NECK DIA d1	SHANK b	OAL L	UN-Coated ORDER No.	Tin-Coated ORDER No.
1/4	9/16	15/64	17/64	1/2	2-19/32	3810-0041	3810-1041
5/16	21/32	17/64	21/64	1/2	2-11/16	3810-0071	3810-1071
3/8	25/32	21/64	13/32	3/4	3-1/4	3810-0072	3810-1072
1/2	31/32	25/64	17/32	3/4	3-7/16	3810-0120	3810-1120
5/8	1-1/4	31/64	21/32	1	3-15/16	3810-0125	3810-1125
3/4	1-15/32	5/8	25/32	1	4-7/16	3810-0130	3810-1130
1	1-27/32	53/64	1-1/32	1-1/4	4-13/16	3810-0133	3810-1133
1-1/4	2-7/32	1-3/32	1-9/32	1-1/4	5-3/8	3810-0134	3810-1134
1-1/2	2-21/32	1-11/32	1-17/32	1-1/4	5-29/32	3810-0163	3810-1163

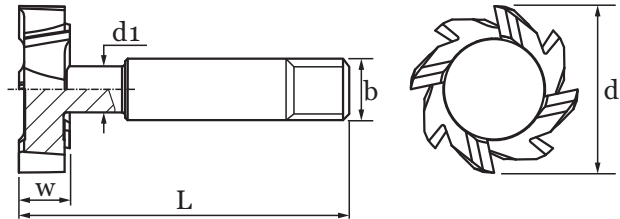
BOLT SIZE	CUTTER DIA d	CUTTER WIDTH w	NECK DIA d1	SHANK b	OAL L	UN-Coated ORDER No.	Tin-Coated ORDER No.
5	11	3.5	4	10	53.5	3812-4050	3812-5050
6	12.5	6	5	10	57	3812-4060	3812-5060
8	16	8	7	10	62	3812-4080	3812-5080
10	18	8	8	12	70	3812-4100	3812-5100
12	21	9	10	12	74	3812-4120	3812-5120
14	25	11	12	16	82	3812-4140	3812-5140
16*	29	12.5	13	16	85	3812-4160	3812-5160
18	32	14	15	16	90	3812-4180	3812-5180
20*	36	15.5	17	25	101	3812-4200	3812-5200
22	40	18	19	25	108	3812-4220	3812-5220
24*	45	20	21	25	112	3812-4240	3812-5240
28	50	22	25	32	124	3812-4280	3812-5280
32*	57	24	28	32	131	3812-4320	3812-5320
36	60	28	30	32	139	3812-4360	3812-5360

Mills Cutter

T-Slot Cutters Screwed Shank Type

螺纹柄T型槽铣刀

* For all dovetail work, production & tool room work.
* Right hand , 45° or 60° .
* Weldon flats, Straight Tooth.



BOLT SIZE	CUTTER DIA d	CUTTER WIDTH w	NECK DIA d1	SHANK b	OAL L	UN-Coated ORDER No.	Tin-Coated ORDER No.
5	11	3.5	4	10	53.5	3812-0050	3812-1050
6	12.5	6	5	10	57	3812-0060	3812-1060
8	16	8	7	10	62	3812-0080	3812-1080
10	18	8	8	12	70	3812-0100	3812-1100
12	21	9	10	12	74	3812-0120	3812-1120
14	25	11	12	16	82	3812-0140	3812-1140
16*	29	12.5	13	16	85	3812-0160	3812-1160
18	32	14	15	16	90	3812-0180	3812-1180
20*	36	15.5	17	25	101	3812-0200	3812-1200
22	40	18	19	25	108	3812-0220	3812-1220
24*	45	20	21	25	112	3812-0240	3812-1240
28	50	22	25	32	124	3812-0280	3812-1280
32*	57	24	28	32	131	3812-0320	3812-1320
36	60	28	30	32	139	3812-0360	3812-1360

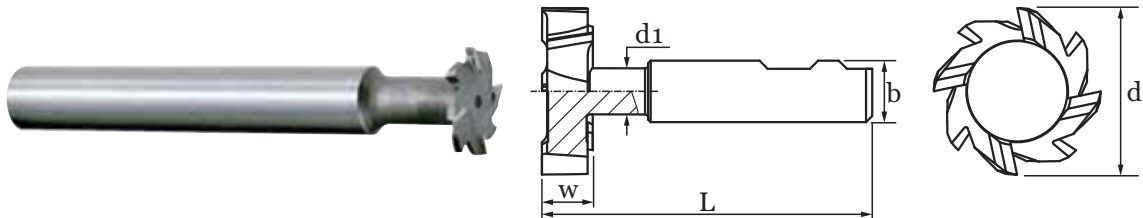
BOLT SIZE	CUTTER DIA d	CUTTER WIDTH w	NECK DIA d1	SHANK b	OAL L	UN-Coated ORDER No.	Tin-Coated ORDER No.
1/4	37/64	1/4	1/4	1/2	2-3/8	3812-0005	3812-1005
5/16	45/64	5/16	9/32	1/2	2-9/16	3812-0010	3812-1010
3/8	53/64	23/64	11/32	1/2	2-11/16	3812-0015	3812-1015
7/16	61/64	27/64	3/8	1/2	2-7/8	3812-0020	3812-1020
1/2	1-5/64	15/32	15/32	1/2	3	3812-0025	3812-1025
5/8	1-21/64	37/64	9/16	1	4	3812-0030	3812-1030
3/4	1-33/64	11/16	11/16	1	4-5/16	3812-0035	3812-1035
7/8	1-45/64	51/64	13/16	1	4-5/8	3812-0040	3812-1040
1	1-61/64	29/32	15/16	1	5	3812-0045	3812-1045

Mills Cutter

Long Shank T-Slot Cutters

加长柄T型槽铣刀

*Use for a wide variety of slotting and milling operations in both ferrous and non-ferrous materials
*For use on manual and CNC machines



CUTTER d	CUTTER WIDTH w	NECK DIA d1	SHANK b	OAL L	UN-Coated ORDER No.
1	1/8	7/16	5/8	4-15/16	3811-0002
1	3/16	7/16	5/8	4-15/16	3811-0004
1	1/4	7/16	5/8	4-15/16	3811-0006
1	5/16	7/16	5/8	4-15/16	3811-0008
1	3/8	7/16	5/8	4-15/16	3811-0010
1	1/2	7/16	5/8	4-15/16	3811-0012
1	5/8	7/16	5/8	4-15/16	3811-0014
1-1/4	1/8	19/32	3/4	5-1/8	3811-0016
1-1/4	3/16	19/32	3/4	5-1/8	3811-0018
1-1/4	1/4	19/32	3/4	5-1/8	3811-0020
1-1/4	5/16	19/32	3/4	5-1/8	3811-0022
1-1/4	3/8	19/32	3/4	5-1/8	3811-0024
1-1/4	1/2	19/32	3/4	5-1/8	3811-0026
1-1/4	5/8	19/32	3/4	5-1/8	3811-0028
1-1/2	1/8	23/32	1	5-5/16	3811-0030
1-1/2	3/16	23/32	1	5-5/16	3811-0032
1-1/2	1/4	23/32	1	5-5/16	3811-0034
1-1/2	5/16	23/32	1	5-5/16	3811-0036

CUTTER d	CUTTER WIDTH w	NECK DIA d1	SHANK b	OAL L	UN-Coated ORDER No.
1-1/2	3/8	23/32	1	5-5/16	3811-0038
1-1/2	1/2	23/32	1	5-5/16	3811-0040
1-1/2	5/8	23/32	1	5-5/16	3811-0042
2	3/16	25/32	1	5-11/16	3811-0044
2	1/4	25/32	1	5-11/16	3811-0046
2	5/16	25/32	1	5-11/16	3811-0048
2	3/8	25/32	1	5-11/16	3811-0050
2	1/2	25/32	1	5-11/16	3811-0052
2	5/8	25/32	1	5-11/16	3811-0054
2	3/4	25/32	1	5-11/16	3811-0056
2-1/2	1/4	29/32	1	6-5/8	3811-0058
2-1/2	5/16	29/32	1	6-5/8	3811-0060
2-1/2	3/8	29/32	1	6-5/8	3811-0062
2-1/2	1/2	29/32	1	6-5/8	3811-0064
2-1/2	5/8	29/32	1	6-5/8	3811-0066
2-1/2	3/4	29/32	1	6-5/8	3811-0068
2-1/2	7/8	29/32	1	6-5/8	3811-0070
2-1/2	1	29/32	1	6-5/8	3811-0072

T-Slot Cutters Sets

套装T型槽铣刀



6Pcs/set T-Slot Cutter

6Pcs/Set:Include

1/4, 5/16, 3/8, 1/2, 5/8, and 3/4

ORDE R No.3822-0006

ORDE R No.3822-1006(TIN-Coated)

7Pcs/set T-Slot Cutter

7Pcs/Set:Include

1/4, 5/16, 3/8, 1/2, 5/8, 3/4, and 1

ORDE R No.3822-0007

ORDE R No.3822-1007(TIN-Coated)

Broaches

Hexagon Push Broaches

内六角推刀

- * For cutting hexagonal shaped holes in undersized round machined holes.
- * Used to re-cut a round hole into a hole having a hexagonal shape in a single pass though the workpiece.
- * This design allows broach to start in a plain round hole and cut a precisely shaped hexagonal hole in a single pass through the hole.

- * Designed to be used manually with an arbor pass to produce the hexagonal holes.
- * Well suited for use in a variety of ferrous and non-ferrous materials.



Metric-ANSI4.2-1978

Size	Tolerance	Length	PILOT Dia	DRILL Size	Length of cut Mini	Length of cut Max	ORDER No.
6mm	.2367~.2377	6-1/2	.2362	6mm	1/4	3/4	5003-0012
7	.2760~.2770	7-3/4	.2756	7	3/8	1	5003-0014
8	.3155~.3165	8-1/4	.3150	8	3/8	1	5003-0016
10	.3942~.3952	10	.3937	10	1/2	1-3/8	5003-0018
12	.4729~.4739	12-3/8	.4724	12	1/2	1-3/8	5003-0020
14	.5517~.5527	14-1/4	.5512	14	1/2	1-1/2	5003-0022
16	.6310~.6320	16-7/8	.6230	16	5/8	1-5/8	5003-0024
18	.7092~.7102	17	.7087	18	5/8	1-5/8	5003-0026
20	.7879~.7889	17-7/8	.7874	20	5/8	1-5/8	5003-0028
22	.8666~.8676	18-7/8	.8661	22	5/8	1-5/8	5003-0030
24	.9454~.9464	19-7/8	.9449	24	5/8	1-5/8	5003-0032
25	.9848~.9858	19-7/8	.9842	25	5/8	1-5/8	5003-0034

INCH-ANSI4.2-1978

Size	Tolerance	Length	PILOT Dia	DRILL Size	Length of cut Mini	Length of cut Max	ORDER No.
1/4	.2505~.2515	6	1/4	1/4	1/4	3/4	5002-0022
9/32	.2815~.2825	7-1/4	9/32	9/32	5/16	1	5002-0024
5/16	.3130~.3140	7-3/4	5/16	5/16	3/8	1	5002-0026
11/32	.3440~.3450	7-3/4	11/32	11/32	3/8	1-1/4	5002-0028
3/8	.3755~.3765	8-1/2	3/8	3/8	3/8	1-1/4	5002-0030
13/32	.4065~.4075	9-5/8	13/32	13/32	1/2	1-3/8	5002-0032
7/16	.4385~.4395	10-5/8	7/16	7/16	1/2	1-3/8	5002-0034
15/32	.4690~.4700	11-7/8	15/32	15/32	1/2	1-3/8	5002-0036
1/2	.5005~.5015	11-7/8	1/2	1/2	1/2	1-3/8	5002-0038
9/16	.5630~.5640	13-3/4	9/16	9/16	1/2	1-5/8	5002-0040
5/8	.6260~.6270	16-1/4	5/8	5/8	5/8	2	5002-0042
11/16	.6880~.6890	16-3/4	11/16	11/16	5/8	2	5002-0044
3/4	.7510~.7520	17-1/4	3/4	3/4	5/8	2	5002-0046
7/8	.8755~.8765	18-1/2	7/8	7/8	5/8	2	5002-0048
1	1.002~1.003	19-3/4	1	1	5/8	2	5002-0050

Square Push Broaches



Metric-ANSI4.2-1978

Size	Tolerance	Length	PILOT Dia	DRILL Size	Length of cut Mini	Length of cut Max	ORDER No.
6mm	.2367~.2377	7	.2500	6.35	3/8	3/4	5005-0012
8	.3155~.3165	8-3/16	.3267	8.3	7/16	7/8	5005-0014
10	.3942~.3952	10-7/8	.4057	10.3	1/2	1	5005-0016
12	.4729~.4739	12-1/2	.4921	12.5	5/8	1-1/4	5005-0018
14	.5517~.5527	14-7/8	.5905	15	3/4	1-1/2	5005-0020
16	.6310~.6320	16-13/16	.6693	17	7/8	1-3/4	5005-0022
18	.7092~.7102	18-1/2	.7874	20	7/8	1-3/4	5005-0024
20	.7879~.7889	18-7/8	.8661	22	7/8	1-3/4	5005-0026
22	.8666~.8676	23-1/4	.9448	24	7/8	1-3/4	5005-0028
24	.9454~.9464	24-9/16	1.0236	26	7/8	1-3/4	5005-0030
25	.9848~.9858	24-9/16	1.0630	27	7/8	1-3/4	5005-0032

INCH-ANSI4.2-1978

Size	Tolerance	Length	PILOT Dia	DRILL Size	Length of cut Mini	Length of cut Max	ORDER No.
1/4	.2505~.2515	6-1/2	.2656	17/64	1/4	3/4	5004-0012
9/32	.2815~.2825	7-3/4	.2969	19/64	5/16	1	5004-0014
5/16	.3130~.3140	7-7/8	.3281	21/64	3/8	1	5004-0016
11/32	.3440~.3450	9-3/8	.3594	23/64	3/8	1-1/4	5004-0018
3/8	.3755~.3765	9-3/8	.3906	25/64	3/8	1-1/4	5004-0020
13/32	.4065~.4075	10-5/8	.4219	27/64	1/2	1-3/8	5004-0022
7/16	.4385~.4395	10-7/8	.4531	29/64	1/2	1-3/8	5004-0024
15/32	.4690~.4700	12	.5000	1/2	1/2	1-3/8	5004-0026
1/2	.5005~.5015	12	.5312	17/32	1/2	1-3/8	5004-0028
9/16	.5630~.5640	14-3/4	.5938	19/32	1/2	1-1/2	5004-0030
5/8	.6260~.6270	16-5/16	.6562	21/32	5/8	1-5/8	5004-0032
11/16	.6880~.6890	17-3/4	.7500	3/4	5/8	1-5/8	5004-0034
3/4	.7510~.7520	17-3/4	.8125	13/16	5/8	1-5/8	5004-0036
7/8	.8755~.8765	22-3/4	.9395	15/16	1/2	2	5004-0038
1	1.002~1.003	24-1/8	1.0938	1-3/32	1/2	2	5004-0040

Keyway Broaches

键槽推刀

TECHNICAL DATA:

- * Manufactured from H.S.S.
- * Ground from solid.
- * Straight teeth on one edge of broach.
- * Made to cut either inch or millimeter size keyways.
- * Bright finish.

FEATURES:

- * Hardened and ground bars with cutting teeth on one side.
- * Sized and proportioned to afford a good cutting range and ample rigidity.
- * Replacement shims are also available.

APPLICATIONS:

- * Specialty tools designed for cutting keyways in machined holes.
- * Typically used manually with a arbor press to produce the keyways.
- * Well suited for use in a variety of ferr-ous and non-ferr-ous materials.



BROACH Size	TYPE	TOLERANCES Dec.Squiv.	DIMENSIONS	SHIMS* REQ'D	LENGTH OF CUT	UN-Coated ORDER	Tin-Coated ORDER
1/16	A	.0625~.0635	1/8x5	0	13/64~1-1/8	5000-0002	5000-1002
3/32	A	.0938~.0948	1/8x5	0	13/64~1-1/8	5000-0004	5000-1004
1/8	A	.1252~.1262	1/8x5	1	13/64~1-1/8	5000-0006	5000-1006
3/32	B	.0938~.0948	3/16x6-3/4	0	19/64~1-11/16	5000-0008	5000-1008
1/8	B	.1252~.1262	3/16x6-3/4	1	19/64~1-11/16	5000-0010	5000-1010
5/32	B	.1564~.1574	3/16x6-3/4	1	19/64~1-11/16	5000-0012	5000-1012
3/16	B	.1877~.1887	3/16x6-3/4	1	19/64~1-11/16	5000-0014	5000-1014
3/16	C	.1877~.1887	3/8x11-3/4	1	25/46~2-1/2	5000-0016	5000-1016
1/4	C	.2502~.2512	3/8x11-3/4	1	25/46~2-1/2	5000-0018	5000-1018
5/16	C	.3127~.3137	3/8x11-3/4	1	25/46~2-1/2	5000-0020	5000-1020
3/8	C	.3755~.3765	3/8x11-3/4	2	25/46~2-1/2	5000-0022	5000-1022
5/16	D	.3127~.3137	9/16x13-7/8	1	1~6	5000-0024	5000-1024
3/8	D	.3755~.3765	9/16x13-7/8	2	1~6	5000-0026	5000-1026
7/16	D	.4380~.4390	9/16x13-7/8	2	1~6	5000-0028	5000-1028
1/2	D	.5006~.5016	9/16x13-7/8	3	1~6	5000-0030	5000-1030
5/8	E	.6260~.6270	3/4x15-1/2	4	1~6	5000-0032	5000-1032
3/4	E	.7515~.7525	3/4x15-1/2	5	1~6	5000-0034	5000-1034
7/8	F	.8765~.8775	1x20-1/4	6	1~6	5000-0036	5000-1036
1	F	1.0015~1.002	1x20-1/4	7	1~6	5000-0038	5000-1038
1-1/8		1.1265~1.1275	1-1/8x20-1/4	8	1~6	5000-0040	5000-1040
1-1/4		1.252~1.253	1-1/4x20-1/4	9	1-1/2~8	5000-0042	5000-1042
1-3/8		1.377~1.378	1-3/8x20-1/4	10**	1-1/2~8	5000-0044	5000-1044
1-1/2		1.502~1.503	1-1/2x20-1/4	11**	1-1/2~8	5000-0046	5000-1046

BROACH Size	TYPE	TOLERANCES Dec.Squiv.	DIMENSIONS	SHIMS* REQ'D	LENGTH OF CUT	UN-Coated ORDER	Tin-Coated ORDER
2mm	A	.0782~.0791	1/8x5	0	13/64~1-1/8	5001-0002	5001-1002
3	A	.1176~.1185	1/8x5	1	13/64~1-1/8	5001-0004	5001-1004
4	B	.1569~.1579	1/4x6-3/4	1	19/64~1-11/16	5001-0006	5001-1006
5	B	.1963~.1972	1/4x6-3/4	1	19/64~1-11/16	5001-0008	5001-1008
5	C	.1963~.1972	3/8x11-3/4	1	25/46~2-1/2	5001-0010	5001-1010
6	C	.2356~.2366	3/8x11-3/4	1	25/46~2-1/2	5001-0012	5001-1012
8	C	.3143~.3155	3/8x11-3/4	2	25/46~2-1/2	5001-0014	5001-1014
10	D	.3930~.3942	9/16x13-7/8	2	1~6	5001-0016	5001-1016
12	D	.4716~.4730	9/16x13-7/8	2	1~6	5001-0018	5001-1018
14	D	.5503~.5517	9/16x13-7/8	2	1~6	5001-0020	5001-1020
16	E	.6290~.6304	3/4x15-1/2	3	1~6	5001-0022	5001-1022
18	E	.7078~.7092	3/4x15-1/2	3	1~6	5001-0024	5001-1024
20	F	.7864~.7880	1x20-1/4	3	1~6	5001-0026	5001-1026
22	F	.8651~.8667	1x20-1/4	4	1~6	5001-0028	5001-1028
24	F	.9434~.9455	1x20-1/4	5	1~6	5001-0030	5001-1030
25	F	.9832~.9848	1x20-1/4	4	1~6	5001-0032	5001-1032

Broaches

Keyway Bushing

推套

- * Imperial or Metric size.
- * Specialty tools designed to be used in conjunction with standard keyway broaches for cutting.
- * These tools are hardened and ground cylinders with slots cut into one side.
- * Designed to be used manually with an arbor press and broaches to produce the keyways.
- * Designed to act as guides to position and direct the keyway broach through the cutting stroke.



Collared



Plain

Size	OVERALL LENGTH	ORDER #
1/4-A	1-1/8	5050-0111
5/16-A	1-1/8	5050-0112
3/8-A	1-1/8	5050-0113
7/16-A	1-1/8	5050-0114
1/2-A	1-1/8	5050-0115
1/2-B	1-11/16	5050-0211
9/16-B	1-11/16	5050-0212
5/8-B	1-11/16	5050-0213
11/16-B	1-11/16	5050-0214
3/4-B	1-11/16	5050-0215
13/16-B	1-11/16	5050-0216
7/8-B	1-11/16	5050-0217
3/4-C	2-1/2	5050-0311
13/16-C	2-1/2	5050-0312
7/8-C	2-1/2	5050-0313
15/16-C	2-1/2	5050-0314
1-C	2-1/2	5050-0315
1-1/16-C	2-1/2	5050-0316
1-1/8-C	2-1/2	5050-0317
1-3/16-C	2-1/2	5050-0318
1-1/4-C	2-1/2	5050-0319
1-5/16-C	2-1/2	5050-0320
1-3/8-C	2-1/2	5050-0321
1-7/16-C	2-1/2	5050-0322
1-1/2-C	2-1/2	5050-0323
1-9/16-C	2-1/2	5050-0324
1-7/16-D	4	5050-0411
1-1/2-D	4	5050-0412
1-9/16-D	4	5050-0413
1-5/8-D	4	5050-0414
1-11/16-D	4	5050-0415
1-3/4-D	4	5050-0416
1-13/16-D	5	5050-0417
1-7/8-D	5	5050-0418
1-15/16-D	5	5050-0419
2-D	5	5050-0420
2-1/16-D	5	5050-0421
2-1/8-D	5	5050-0422
2-3/16-D	5	5050-0423
2-1/4-D	5	5050-0424
2-5/16-D	5	5050-0425
2-3/8-D	6	5050-0426
2-7/16-D	6	5050-0427
2-1/2-D	6	5050-0428
2-9/16-D	6	5050-0429
2-5/8-D	6	5050-0430
2-11/16-D	6	5050-0431
2-3/4-D	6	5050-0432
2-13/16-D	6	5050-0433
2-7/8-D	6	5050-0434
2-15/16-D	6	5050-0435
3-D	6	5050-0436

Size	OVERALL LENGTH	ORDER #
2-5/16-E	6	5050-0511
2-3/8-E	6	5050-0512
2-7/16-E	6	5050-0513
2-1/2-E	6	5050-0514
2-9/16-E	6	5050-0515
2-5/8-E	6	5050-0516
2-11/16-E	6	5050-0517
2-3/4-E	6	5050-0518
2-13/16-E	6	5050-0519
2-7/8-E	6	5050-0520
2-15/16-E	6	5050-0521
3-E	6	5050-0522

Size	OVERALL LENGTH	ORDER #
6-A	28	5051-0111
7-A	28	5051-0112
8-A	28	5051-0113
9-A	28	5051-0114
10-A	28	5051-0115
11-B	43	5051-0211
12-B	43	5051-0212
13-B	43	5051-0213
14-B	43	5051-0214
15-B	43	5051-0215
16-B	43	5051-0216
17-B	43	5051-0217
18-B	43	5051-0218
19-B	43	5051-0219
17-C	63	5051-0311
18-C	63	5051-0312
19-C	63	5051-0313
20-C	63	5051-0314
22-C	63	5051-0315
24-C	63	5051-0316
25-C	63	5051-0317
26-C	63	5051-0318
27-C	63	5051-0319
28-C	63	5051-0320
30-C	63	5051-0321
32-C	63	5051-0322
34-C	63	5051-0323
35-C	63	5051-0324
36-C	63	5051-0325
32-D	101	5051-0411
34-D	101	5051-0412
35-D	101	5051-0413
36-D	101	5051-0414
38-D	101	5051-0415
40-D	101	5051-0416
42-D	101	5051-0417

Size	OVERALL LENGTH	ORDER #
44-D	101	5051-0418
45-D	127	5051-0419
46-D	127	5051-0420
48-D	127	5051-0421
50-D	127	5051-0422
52-D	127	5051-0423
54-D	127	5051-0424
55-D	127	5051-0425
56-D	127	5051-0426
52-E	127	5051-0511
54-E	127	5051-0512
55-E	127	5051-0513
56-E	127	5051-0514
58-E	127	5051-0515
60-E	152	5051-0516
62-E	152	5051-0517
64-E	152	5051-0518
65-E	152	5051-0519
66-E	152	5051-0520
68-E	152	5051-0521
70-E	152	5051-0522
72-E	152	5051-0523

Keyway Shims

推刀垫片

Imperial or Metric size.

APPLICATIONS:

* These shims are placed between the broach and bushing to permit the broach to cut deeper slots in succeeding passes through the hole.

* For optimal performance and the best tool life the correct cutting setups and operations must be used and suitable lubricating / cutting oils or appropriate coolant fluids are recommended.



Imperial

Size	Thickness	ORDER #
1/8-A	.031	5052-0100
1/8-B	.031	5052-0101
5/32-B	.042	5052-0102
3/16-B	.05	5052-0103
3/16-C	.05	5052-0104
1/4-C	.0625	5052-0105
5/16-C	.055	5052-0106
3/8-C	.0625	5052-0107
5/16-D	.056	5052-0108
3/8-D	.0625	5052-0109
7/16-D	.056	5052-0110
1/2-D	.0625	5052-0111
5/8-E	.0625	5052-0112
3/4-E	.0625	5052-0113
7/8-F	.0625	5052-0114
1-F	.0625	5052-0115
1-1/8	.0625	5052-0116
1-1/4	.0625	5052-0116

Metric

Size	Thickness	ORDER #
3mmA	.031	5053-0102
4B-1	.038	5053-0104
5B-1	.050	5053-0106
5C	.047	5053-0108
6C-1	.062	5053-0110
8C-1	.078	5053-0112
10D-1	.056	5053-0114
12D-1	.056	5053-0116
14D-1	.062	5053-0118
16E-1	.062	5053-0120
18E-1	.062	5053-0122
20F-1	.062	5053-0124
22F-1	.062	5053-0126
24F	.062	5053-0128
25F-1	.062	5053-0130

Broaches

Metric Keyway Broaches Sets

*All sets come with wooden case

No.60# Metric Set

The most common metric keyway combinations for small keyways and bores.



No.60#

MODEL	Keyway Size	Bushing DIA BORE SIZE Plain Only	ORDER #
No.60#	2A	6,8,10	5100-0060
	3A		

No.70# Metric Set

Our most popular metric broach set.



No.70#

	Keyway	Bushing DIA	ORDER
MODEL	Size	BORE SIZE Plain Only	#
No.70#	4B	12,14,15,16	5100-0070
	5B		
	6C	18,19,20,22,24	
	8C		

No.80 Metric Set

The most common metric keyway combinations for medium-sized keyway and bores.

MODEL	Keyway Size	Bushing DIA BORE SIZE Plain Only	ORDER #
No.80#	10D	32,34,35,36	5100-0080
	12D	38,40,42,44	
	14D	45,46,48,50	

No.90# Metric Set

The most common metric keyway combinations for large keyway and bores.



No.90#

MODEL	Keyway Size	Bushing DIA BORE SIZE Plain Only	ORDER #
No.90#	16E	52,54,55,56	5100-0090
	18E	58,60,62,65	

No.110# Metric Set

The most common metric keyway combinations for large keyway and bores.

MODEL	Keyway Size	Bushing DIA BORE SIZE	ORDER #
No.110#	2A	6A,8A,10A	5100-0110
	3A		
	4B	12B,14B,15B,16B	
	5B		
	6C	18C,19C,20C,22C,24C,25C,28C,30C	
	8C		
	10D	32D,34D,35D,36D,38D,40D,42D,44D,	
	14D	45D,46D,48D,50D	
	16E	52E,54E,55E,56E,58E,60E,62E	
	18E	,65E,66E,68E	
	20F	70F,72F	

MODEL	Keyway Size	Bushing DIA BORE SIZE	ORDER #
No.110A	2A	6A,8A,10A	5100-0111
	3A		
	4B	12B,14B,15B,16B	
	5B		
	6C	18C,19C,20C,22C,24C,25C,26C,28C,30C	
	8C		
	10D	32D,34D,35D,36D,38D,40D,42D,44D,45D	
	14D		
	16E	46D,48D,50D	
	18E		
	52E,54E,55E,56E,58E,60E,62E,65E		

Inch Keyway Broaches Sets

英制套装键槽推刀



No.00#

No.00# Precision Set

The most common keyway combinations for keyways and bores

	Keyway Size	Bushing DIA BORE SIZE Collared Only	ORDER #
No.00#	1/16-A 3/32-A 1/8-A	1/4, 5/16, 3/8, 7/16, 1/2	5100-0001

No.10# Standard Set

	Keyway Size	Bushing DIA BORE SIZE Collared Only	ORDER #
No.10#	1/8-B 3/16-B 1/4-C 3/8-C	1/2, 5/8, 3/4, 7/8 1, 1-1/8, 1-1/4 1-3/8, 1-1/2	5100-0010

No.10A Standard Set

Same No.10 Set, but for sixteenth-sized bores.

	Keyway Size	Bushing DIA BORE SIZE Collared Only	ORDER #
No.10A	1/8-B 3/16-B 1/4-C 3/8-C	9/16, 11/16, 13/16 15/16, 1-1/16, 1-3/16 1-5/16, 1-7/16, 1-9/16	5100-0012

No.10-10A Combination Set

Combines 10 and 10A sets.

	Keyway Size	Bushing DIA BORE SIZE Collared Only	ORDER #
No.10-10A	1/8-B 3/16-B 1/4-C 3/8-C	1/2, 5/8, 3/4, 7/8 9/16, 11/16, 13/16 15/16, 1, 1-1/16, 1-1/8, 1-3/16, 1-1/4, 1-5/16, 1-3/8, 1-7/16, 1-1/2, 1-9/16	5100-0014

No.20# Combination Set

Same No.10-10A combination set, but adds a 5/16 keyway for 11 extra combinations.

	Keyway Size	Bushing DIA BORE SIZE Collared Only	ORDER #
No.20#	1/8-B 3/16-B 1/4-C 5/16-C 3/8-C	1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8 15/16, 1, 1-1/16, 1-1/8, 1-3/16, 1-1/4, 1-5/16, 1-3/8, 1-7/16, 1-1/2, 1-9/16	5100-0020

No.40# Set

Same No.40A Set, but for sixteenth-sized bores.

	Keyway Size	Bushing DIA BORE SIZE Plain Only	ORDER #
No.40#	5/16-D 3/8-D 7/16-D 1/2-D	1-7/16, 1-9/16, 1-11/16 1-13/16, 1-15/16, 2-3/16 2-7/16, 2-15/16	5100-0040

No.40A Set

The most common keyway combinations for keyways and bores

	Keyway Size	Bushing DIA BORE SIZE Plain Only	ORDER #
No.40A	5/16-D 3/8-D 7/16-D 1/2-D	1-1/2, 1-5/8, 1-3/4, 1-7/8, 2-1/8, 2-1/4, 2-1/2	5100-0042

No.40½A Heavy Duty Set

The most common keyway combinations for large keyway

	Keyway Size	Bushing DIA BORE SIZE Plain Only	ORDER #
No.40½A	5/8-E 3/4-E	2-3/8, 2-1/2, 2-5/8 2-3/4, 2-7/8, 3	5100-0046

No.40½ Heavy Duty Set

Same No.40½ A Set, but for Sixteenth-sized bores.

	Keyway Size	Bushing DIA BORE SIZE Plain Only	ORDER #
No.40½	5/8-E 3/4-E	2-5/16, 2-7/16, 2-9/16, 2-11/16, 2-13/16, 2-15/16	5100-0044

No.50# Heavy Duty Set

	Keyway Size	Bushing DIA BORE SIZE Collared Only	ORDER #
No.50#	1/2-D 5/8-E 3/4-E	2, 2-1/16, 2-1/8, 2-3/16, 2-1/4 2-5/16, 2-3/8, 2-7/16, 2-1/2, 2-9/16, 2-5/8, 2-11/16, 2-3/4, 2-7/8, 2-15/16, 3	5100-0050

No.100# Heavy Duty Combination Set

Includes all popular combinations without duplication. Furnished in a handsome varnished wood box for convenient handling and storage, with broaches, slotted bushing, and shims.

Collared Bushings for B & C Style Broaches
Plain Bushings for D & E Style Broaches

	Keyway Size	Bushing DIA BORE SIZE	ORDER #
No.100#	1/8-B 3/16-B 1/4-C 5/16-C 3/8-D 7/16-D 1/2-D 5/8-E 3/4-E	1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8 15/16, 1, 1-1/16, 1-1/8, 1-3/16, 1-1/4, 1-5/16, 1-3/8, 1-7/16, 1-1/2, 1-9/16 1-7/16, 1-1/2, 1-9/16, 1-5/8, 1-11/16, 1-3/4, 1-13/16, 1-7/8, 1-15/16, 2, 2-1/16, 2-1/8, 2-3/16, 2-1/4 2-5/16, 2-3/8, 2-7/16, 2-1/2, 2-9/16, 2-5/8, 2-11/16, 2-3/4, 2-7/8, 2-15/16, 3	5100-0100

Bit Tools

8PC Solid Hss Tool Bit Set

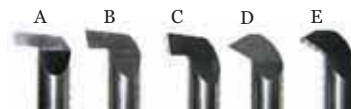
- *Contains several commonly used tools, mainly used for Nonferrous Metals or soft metal, plastic processing
- *80° Lathe tool (Left Hand)
- *80° Lathe tool (Right Hand)
- *60° Lathe too (Left Hand)
- *60° Lathe tool (Right Hand)
- *60° External thread tool
- *60° Inside threading tool
- *External cutter
- *Boring Bar



Size	Size	Metric		Inch	
		UN-Coated Order No.	Tin-Coated Order No.	UN-Coated Order No.	Tin-Coated Order No.
4mm	5/32	2662-1000	2662-1020	2662-2000	2662-2020
6mm	1/4	2662-1001	2662-1021	2662-2001	2662-2021
8mm	5/16	2662-1002	2662-1022	2662-2002	2662-2022
10mm	3/8	2662-1003	2662-1023	2662-2003	2662-2023
12mm	1/2	2662-1004	2662-1024	2662-2004	2662-2024
14mm	9/16	2662-1005	2662-1025	2662-2005	2662-2025
16mm	5/8	2662-1006	2662-1026	2662-2006	2662-2026
20mm	3/4	2662-1007	2662-1027	2662-2007	2662-2027

6PC Internal Threading & Boring Tool Sets

- A:Boring Bar
- B:Boring Bar
- C:Boring Bar
- D:60° External Thread
- E:55° Inside Threading
- Tool Blocks



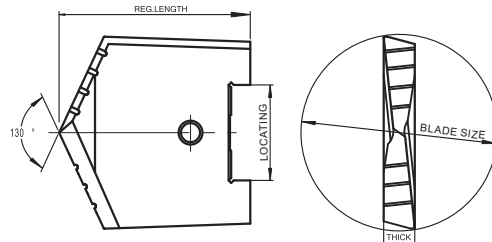
Size	Size	Metric		Inch	
		UN-Coated Order No.	Tin-Coated Order No.	UN-Coated Order No.	Tin-Coated Order No.
4mm	5/32	2663-1000	2663-1020	2663-2000	2663-2020
6mm	1/4	2663-1001	2663-1021	2663-2001	2663-2021
8mm	5/16	2663-1002	2663-1022	2663-2002	2663-2022
10mm	3/8	2663-1003	2663-1023	2663-2003	2663-2023
12mm	1/2	2663-1004	2663-1024	2663-2004	2663-2024

Spade Drill Blades

板钻

FEATURES:

- * Longer tool life.
- * Ability to take heavy feeds.
- * High torsional & axial strength.
- * Blades interchangeable with most leading manufacturers.



SERIES	BLADE	THICK	LOCATING	REG.	UN-Coated	Tin-Coated
#	SIZE	NESS	AREA	LENGTH	ORDER No	ORDER No
AA	1	1/4	13/16	1-5/32	6010-0100	6010-1100
AA	1-1/32	1/4	13/16	1-5/32	6010-0101	6010-1101
AA	1-1/16	1/4	13/16	1-5/32	6010-0102	6010-1102
AA	1-3/32	1/4	13/16	1-5/32	6010-0103	6010-1103
AA	1-1/8	1/4	13/16	1-5/32	6010-0104	6010-1104
AA	1-5/32	1/4	13/16	1-5/32	6010-0105	6010-1105
AA	1-3/16	1/4	13/16	1-5/32	6010-0106	6010-1106
AA	1-7/32	1/4	13/16	1-5/32	6010-0107	6010-1107
AA	1-1/4	1/4	13/16	1-5/32	6010-0108	6010-1108
AA	1-9/32	1/4	13/16	1-5/32	6010-0109	6010-1109
AA	1-5/16	1/4	13/16	1-5/32	6010-0110	6010-1110
AA	1-11/32	1/4	13/16	1-5/32	6010-0111	6010-1111
AA	1-3/8	1/4	13/16	1-5/32	6010-0112	6010-1112
A	31/32	3/16	3/4	1-5/32	6010-0200	6010-1200
A	1	3/16	3/4	1-5/32	6010-0201	6010-1201
A	1-1/32	3/16	3/4	1-5/32	6010-0202	6010-1202
A	1-1/16	3/16	3/4	1-5/32	6010-0203	6010-1203
A	1-3/32	3/16	3/4	1-5/32	6010-0204	6010-1204
A	1-1/8	3/16	3/4	1-5/32	6010-0205	6010-1205
A	1-5/32	3/16	3/4	1-5/32	6010-0206	6010-1206
A	1-3/16	3/16	3/4	1-5/32	6010-0207	6010-1207
A	1-7/32	3/16	3/4	1-5/32	6010-0208	6010-1208
A	1-1/4	3/16	3/4	1-5/32	6010-0209	6010-1209
A	1-9/32	3/16	3/4	1-5/32	6010-0210	6010-1210
A	1-5/16	3/16	3/4	1-5/32	6010-0211	6010-1211
A	1-11/32	3/16	3/4	1-5/32	6010-0212	6010-1212
A	1-3/8	3/16	3/4	1-5/32	6010-0213	6010-1213
B	1-1/4	9/32	1-1/16	1-13/32	6010-0300	6010-1300
B	1-9/32	9/32	1-1/16	1-13/32	6010-0301	6010-1301
B	1-5/16	9/32	1-1/16	1-13/32	6010-0302	6010-1302
B	1-11/32	9/32	1-1/16	1-13/32	6010-0303	6010-1303
B	1-3/8	9/32	1-1/16	1-13/32	6010-0304	6010-1304
B	1-13/32	9/32	1-1/16	1-13/32	6010-0305	6010-1305
B	1-7/16	9/32	1-1/16	1-13/32	6010-0306	6010-1306
B	1-15/16	9/32	1-1/16	1-13/32	6010-0307	6010-1307
B	1-1/2	9/32	1-1/16	1-13/32	6010-0308	6010-1308
B	1-17/32	9/32	1-1/16	1-13/32	6010-0309	6010-1309
B	1-9/16	9/32	1-1/16	1-13/32	6010-0310	6010-1310
B	1-19/32	9/32	1-1/16	1-13/32	6010-0311	6010-1311
B	1-5/8	9/32	1-1/16	1-13/32	6010-0312	6010-1312
B	1-21/32	9/32	1-1/16	1-13/32	6010-0313	6010-1313
B	1-11/16	9/32	1-1/16	1-13/32	6010-0314	6010-1314
B	1-23/32	9/32	1-1/16	1-13/32	6010-0315	6010-1315
B	1-3/4	9/32	1-1/16	1-13/32	6010-0316	6010-1316
C	1-1/2	5/16	1-1/4	2	6010-0400	6010-1400
C	1-17/32	5/16	1-1/4	2	6010-0401	6010-1401
C	1-9/16	5/16	1-1/4	2	6010-0402	6010-1402
C	1-19/32	5/16	1-1/4	2	6010-0403	6010-1403
C	1-5/8	5/16	1-1/4	2	6010-0404	6010-1404
C	1-21/32	5/16	1-1/4	2	6010-0405	6010-1405
C	1-11/16	5/16	1-1/4	2	6010-0406	6010-1406
C	1-23/32	5/16	1-1/4	2	6010-0407	6010-1407
C	1-3/4	5/16	1-1/4	2	6010-0408	6010-1408
C	1-25/32	5/16	1-1/4	2	6010-0409	6010-1409
C	1-13/16	5/16	1-1/4	2	6010-0410	6010-1410
C	1-27/32	5/16	1-1/4	2	6010-0411	6010-1411
C	1-7/8	5/16	1-1/4	2	6010-0412	6010-1412
C	1-29/32	5/16	1-1/4	2	6010-0413	6010-1413
C	1-15/16	5/16	1-1/4	2	6010-0414	6010-1414
C	1-31/32	5/16	1-1/4	2	6010-0415	6010-1415
C	2	5/16	1-1/4	2	6010-0416	6010-1416
C	2-1/32	5/16	1-1/4	2	6010-0417	6010-1417
C	2-1/16	5/16	1-1/4	2	6010-0418	6010-1418
C	2-3/32	5/16	1-1/4	2	6010-0419	6010-1419
C	2-1/8	5/16	1-1/4	2	6010-0420	6010-1420

SERIES	BLADE #	BLADE SIZE	THICK NESS	LOCATING AREA	REG. LENGTH	UN-Coated ORDER No	Tin-Coated ORDER No
D	2	2-1/16	3/8	1-3/4	2-3/8	6010-0502	6010-1502
D	2	2-3/32	3/8	1-3/4	2-3/8	6010-0503	6010-1503
D	2	2-1/8	3/8	1-3/4	2-3/8	6010-0504	6010-1504
D	2	2-5/32	3/8	1-3/4	2-3/8	6010-0505	6010-1505
D	2	2-3/16	3/8	1-3/4	2-3/8	6010-0506	6010-1506
D	2	2-7/32	3/8	1-3/4	2-3/8	6010-0507	6010-1507
D	2	2-1/4	3/8	1-3/4	2-3/8	6010-0508	6010-1508
D	2	2-9/32	3/8	1-3/4	2-3/8	6010-0509	6010-1509
D	2	2-5/16	3/8	1-3/4	2-3/8	6010-0510	6010-1510
D	2	2-11/16	3/8	1-3/4	2-3/8	6010-0511	6010-1511
D	2	2-3/8	3/8	1-3/4	2-3/8	6010-0512	6010-1512
D	2	2-13/32	3/8	1-3/4	2-3/8	6010-0513	6010-1513
D	2	2-7/16	3/8	1-3/4	2-3/8	6010-0514	6010-1514
D	2	2-15/16	3/8	1-3/4	2-3/8	6010-0515	6010-1515
D	2	2-1/2	3/8	1-3/4	2-3/8	6010-0516	6010-1516
D	2	2-17/32	3/8	1-3/4	2-3/8	6010-0517	6010-1517
D	2	2-9/16	3/8	1-3/4	2-3/8	6010-0518	6010-1518
D	2	2-19/32	3/8	1-3/4	2-3/8	6010-0519	6010-1519
D	2	2-5/8	3/8	1-3/4	2-3/8	6010-0520	6010-1520
D	2	2-21/32	3/8	1-3/4	2-3/8	6010-0521	6010-1521
D	2	2-11/16	3/8	1-3/4	2-3/8	6010-0522	6010-1522
D	2	2-23/32	3/8	1-3/4	2-3/8	6010-0523	6010-1523
D	2	2-3/4	3/8	1-3/4	2-3/8	6010-0524	6010-1524
D	2	2-25/32	3/8	1-3/4	2-3/8	6010-0525	6010-1525
D	2	2-13/16	3/8	1-3/4	2-3/8	6010-0526	6010-1526
D	2	2-27/32	3/8	1-3/4	2-3/8	6010-0527	6010-1527
D	2	2-7/8	3/8	1-3/4	2-3/8	6010-0528	6010-1528
E	2	2-1/2	7/16	2-1/16	2-5/8	6010-0600	6010-1600
E	2	2-17/32	7/16	2-1/16	2-5/8	6010-0601	6010-1601
E	2	2-9/16	7/16	2-1/16	2-5/8	6010-0602	6010-1602
E	2	2-19/32	7/16	2-1/16	2-5/8	6010-0603	6010-1603
E	2	2-5/8	7/16	2-1/16	2-5/8	6010-0604	6010-1604
E	2	2-21/32	7/16	2-1/16	2-5/8	6010-0605	6010-1605
E	2	2-11/16	7/16	2-1/16	2-5/8	6010-0606	6010-1606
E	2	2-23/32	7/16	2-1/16	2-5/8	6010-0607	6010-1607
E	2	2-3/4	7/16	2-1/16	2-5/8	6010-0608	6010-1608
E	2	2-25/32	7/16	2-1/16	2-5/8	6010-0609	6010-1609
E	2	2-13/16	7/16	2-1/16	2-5/8	6010-0610	6010-1610
E	2	2-27/32	7/16	2-1/16	2-5/8	6010-0611	6010-1611
E	2	2-7/8	7/16	2-1/16	2-5/8	6010-0612	6010-1612
E	2	2-29/32	7/16	2-1/16	2-5/8	6010-0613	6010-1613
E	2	2-15/16	7/16	2-1/16	2-5/8	6010-0614	6010-1614
E	2	2-31/32	7/16	2-1/16	2-5/8	6010-0615	6010-1615
E	2	3	7/16	2-1/16	2-5/8	6010-0616	6010-1616
E	2	3-1/32	7/16	2-1/16	2-5/8	6010-0617	6010-1617
E	2	3-1/16	7/16	2-1/16	2-5/8	6010-0618	6010-1618
E	2	3-3/32	7/16	2-1/16	2-5/8	6010-0619	6010-1619
E	2	3-1/8	7/16	2-1/16	2-5/8	6010-0620	6010-1620
E	2	3-5/32	7/16	2-1/16	2-5/8	6010-0621	6010-1621
E	2	3-3/16	7/16	2-1/16	2-5/8	6010-0622	6010-1622
E	2	3-7/32	7/16	2-1/16	2-5/8	6010-0623	6010-1623
E	2	3-1/4	7/16	2-1/16	2-5/8	6010-0624	6010-1624
E	2	3-9/32	7/16	2-1/16	2-5/8	6010-0625	6010-1625
E	2	3-5/16	7/16	2-1/16	2-5/8	6010-0626	6010-1626
E	2	3-11/32	7/16	2-1/16	2-5/8	6010-0627	6010-1627
E	2	3-3/8	7/16	2-1/16	2-5/8	6010-0628	6010-1628
F	3	3-1/2	1/2	2-5/8	3-1/8	6010-0700	6010-1700
F	3	3-1/32	1/2	2-5/8	3-1/8	6010-0701	6010-1701
F	3	3-1/16	1/2	2-5/8	3-1/8	6010-0702	6010-1702
F	3	3-3/32	1/2	2-5/8	3-1/8	6010-0703	6010-1703
F	3	3-1/8	1/2	2-5/8	3-1/8	6010-0704	6010-1704
F	3	3-5/32	1/2	2-5/8	3-1/8	6010-0705	6010-1705
F	3	3-3/16	1/2	2-5/8	3-1/8	6010-0706	6010-1706
F	3	3-7/32	1/2	2-5/8	3-1/8	6010-0707	6010-1707
F	3	3-1/4	1/2	2-5/8	3-1/8	6010-0708	6010-1708

Bit Tools

SERIES #	BLADE SIZE	THICK NESS	LOCATING AREA	REG. LENGTH	UN-Coated ORDER No	Tin-Coated ORDER No
C	2-5/32	5/16	1-1/4	2	6010-0421	6010-1421
C	2-3/16	5/16	1-1/4	2	6010-0422	6010-1422
C	2-7/32	5/16	1-1/4	2	6010-0423	6010-1423
C	2-1/4	5/16	1-1/4	2	6010-0424	6010-1424
C	2-9/32	5/16	1-1/4	2	6010-0425	6010-1425
C	2-5/16	5/16	1-1/4	2	6010-0426	6010-1426
C	2-11/32	5/16	1-1/4	2	6010-0427	6010-1427
C	2-3/8	5/16	1-1/4	2	6010-0428	6010-1428
D	2	3/8	1-3/4	2-3/8	6010-0500	6010-1500
D	2-1/32	3/8	1-3/4	2-3/8	6010-0501	6010-1501
F	3-19/32	1/2	2-5/8	3-1/8	6010-0719	6010-1719
F	3-5/8	1/2	2-5/8	3-1/8	6010-0720	6010-1720
F	3-21/32	1/2	2-5/8	3-1/8	6010-0721	6010-1721
F	3-11/16	1/2	2-5/8	3-1/8	6010-0722	6010-1722
F	3-23/32	1/2	2-5/8	3-1/8	6010-0723	6010-1723
F	3-3/4	1/2	2-5/8	3-1/8	6010-0724	6010-1724
F	3-25/32	1/2	2-5/8	3-1/8	6010-0725	6010-1725
F	3-13/16	1/2	2-5/8	3-1/8	6010-0726	6010-1726
F	3-27/32	1/2	2-5/8	3-1/8	6010-0727	6010-1727
F	3-7/8	1/2	2-5/8	3-1/8	6010-0728	6010-1728
G	3-1/2	5/8	3-1/16	3-3/8	6010-0800	6010-1800
G	3-17/32	5/8	3-1/16	3-3/8	6010-0801	6010-1801
G	3-9/16	5/8	3-1/16	3-3/8	6010-0802	6010-1802
G	3-19/32	5/8	3-1/16	3-3/8	6010-0803	6010-1803
G	3-5/8	5/8	3-1/16	3-3/8	6010-0804	6010-1804
G	3-21/32	5/8	3-1/16	3-3/8	6010-0805	6010-1805
G	3-11/16	5/8	3-1/16	3-3/8	6010-0806	6010-1806
G	3-23/32	5/8	3-1/16	3-3/8	6010-0807	6010-1807
G	3-3/4	5/8	3-1/16	3-3/8	6010-0808	6010-1808
G	3-25/32	5/8	3-1/16	3-3/8	6010-0809	6010-1809
G	3-13/16	5/8	3-1/16	3-3/8	6010-0810	6010-1810
G	3-27/32	5/8	3-1/16	3-3/8	6010-0811	6010-1811
G	3-7/8	5/8	3-1/16	3-3/8	6010-0812	6010-1812
G	3-29/32	5/8	3-1/16	3-3/8	6010-0813	6010-1813
G	3-15/16	5/8	3-1/16	3-3/8	6010-0814	6010-1814
G	3-31/32	5/8	3-1/16	3-3/8	6010-0815	6010-1815
G	4	5/8	3-1/16	3-3/8	6010-0816	6010-1816
G	4-1/16	5/8	3-1/16	3-3/8	6010-0817	6010-1817
G	4-1/8	5/8	3-1/16	3-3/8	6010-0818	6010-1818
G	4-3/16	5/8	3-1/16	3-3/8	6010-0819	6010-1819

SERIES #	BLADE SIZE	THICK NESS	LOCATING AREA	REG. LENGTH	UN-Coated ORDER No	Tin-Coated ORDER No
F	3-9/32	1/2	2-5/8	3-1/8	6010-0709	6010-1709
F	3-5/16	1/2	2-5/8	3-1/8	6010-0710	6010-1710
F	3-11/32	1/2	2-5/8	3-1/8	6010-0711	6010-1711
F	3-3/8	1/2	2-5/8	3-1/8	6010-0712	6010-1712
F	3-13/32	1/2	2-5/8	3-1/8	6010-0713	6010-1713
F	3-7/16	1/2	2-5/8	3-1/8	6010-0714	6010-1714
F	3-15/32	1/2	2-5/8	3-1/8	6010-0715	6010-1715
F	3-1/2	1/2	2-5/8	3-1/8	6010-0716	6010-1716
F	3-17/32	1/2	2-5/8	3-1/8	6010-0717	6010-1717
F	3-9/16	1/2	2-5/8	3-1/8	6010-0718	6010-1718
G	4-1/4	5/8	3-1/16	3-3/8	6010-0820	6010-1820
G	4-5/16	5/8	3-1/16	3-3/8	6010-0821	6010-1821
G	4-3/8	5/8	3-1/16	3-3/8	6010-0822	6010-1822
G	4-7/16	5/8	3-1/16	3-3/8	6010-0823	6010-1823
G	4-1/2	5/8	3-1/16	3-3/8	6010-0824	6010-1824
H	4	11/16	3-1/2	3-11/16	6010-0900	6010-1900
H	4-1/16	11/16	3-1/2	3-11/16	6010-0901	6010-1901
H	4-1/8	11/16	3-1/2	3-11/16	6010-0902	6010-1902
H	4-3/16	11/16	3-1/2	3-11/16	6010-0903	6010-1903
H	4-1/4	11/16	3-1/2	3-11/16	6010-0904	6010-1904
H	4-5/16	11/16	3-1/2	3-11/16	6010-0905	6010-1905
H	4-3/8	11/16	3-1/2	3-11/16	6010-0906	6010-1906
H	4-7/16	11/16	3-1/2	3-11/16	6010-0907	6010-1907
H	4-1/2	11/16	3-1/2	3-11/16	6010-0908	6010-1908
H	4-9/16	11/16	3-1/2	3-11/16	6010-0909	6010-1909
H	4-5/8	11/16	3-1/2	3-11/16	6010-0910	6010-1910
H	4-11/16	11/16	3-1/2	3-11/16	6010-0911	6010-1911
H	4-3/4	11/16	3-1/2	3-11/16	6010-0912	6010-1912
H	4-13/16	11/16	3-1/2	3-11/16	6010-0913	6010-1913
H	4-7/8	11/16	3-1/2	3-11/16	6010-0914	6010-1914
H	4-15/16	11/16	3-1/2	3-11/16	6010-0915	6010-1915
H	5	11/16	3-1/2	3-11/16	6010-0916	6010-1916
H	5-1/8	11/16	3-1/2	3-11/16	6010-0917	6010-1917
H	5-1/4	11/16	3-1/2	4-11/16	6010-0918	6010-1918
H	5-3/8	11/16	3-1/2	4-11/16	6010-0919	6010-1919
H	5-1/2	11/16	3-1/2	4-11/16	6010-0920	6010-1920
H	5-5/8	11/16	3-1/2	4-11/16	6010-0921	6010-1921
H	5-3/4	11/16	3-1/2	4-11/16	6010-0922	6010-1922
H	5-7/8	11/16	3-1/2	4-11/16	6010-0923	6010-1923
H	6	11/16	3-1/2	4-11/16	6010-0924	6010-1924

Shell Reamers Arbors

Taper Shank



Straight Shank



SIZE	FITS SHELL REAMER	OVERALL LENGTH	SHANK Ta	Str	Straight ORDER	Taper ORDER
4	21/32~25/32	9	2	1/2	4040-0040	4040-1040
5	13/16~1-1/32	9-1/2	2	5/8	4040-0050	4040-1050
6	1-1/16~1-9/32	10	3	3/4	4040-0060	4040-1060
7	1-5/16~1-21/32	11	3	7/8	4040-0070	4040-1070
8	1-11/16~2	12	4	1-1/8	4040-0080	4040-1080
9	2-1/16~2-1/2	13	4	1-3/8	4040-0090	4040-1090
10	2-9/16~3	14	5	1-5/8	4040-0100	4040-1100
11	3-1/16~3-1/2	15	5	2	4040-0110	4040-1110
12	3-9/16~4	16	5	2-1/8	4040-0120	4040-1120

SIZE	FITS SHELL REAMER	OVERALL LENGTH	SHANK Ta	Taper ORDER
10	20~23	250	3	4041-1010
13	23.6~30	250	3	4041-1013
16	30~35.5	261	3	4041-1016
19	35.5~42.5	298	4	4041-1019
22	42.5~50.8	312	4	4041-1022
27	50.8~60	359	5	4041-1027
32	60~71	376	5	4041-1032
40	71~85	396	5	4041-1040
50	85~101.6	416	5	4041-1050

Hand Reamers

手用铰刀



SIZE	FLUTE LENGTH	OVERALL LENGTH	Straight ORDER No.	Spiral ORDER No.
13/64	1-7/8	3-3/4	4008-0002	4008-1002
7/32	1-7/8	3-3/4	4008-0004	4008-1004
15/64	2	4	4008-0006	4008-1006
1/4	2	4	4008-0008	4008-1008
17/64	2-1/8	4-1/4	4008-0010	4008-1010
9/32	2-1/8	4-1/4	4008-0012	4008-1012
19/64	2-1/4	4-1/2	4008-0014	4008-1014
5/16	2-1/4	4-1/2	4008-0016	4008-1016
11/32	2-3/8	4-3/4	4008-0018	4008-1018
3/8	2-1/2	5	4008-0020	4008-1020
13/32	2-5/8	5-1/4	4008-0022	4008-1022
7/16	2-3/4	5-1/2	4008-0024	4008-1024
15/32	2-7/8	5-3/4	4008-0026	4008-1026
1/2	3	6	4008-0028	4008-1028
17/32	3-1/8	6-1/4	4008-0030	4008-1030
9/16	3-1/4	6-1/2	4008-0032	4008-1032
19/32	3-3/8	6-3/4	4008-0034	4008-1034
5/8	3-1/2	7	4008-0036	4008-1036
21/32	3-11/16	7-3/8	4008-0038	4008-1038
43/64	3-7/8	7-3/4	4008-0040	4008-1040
11/16	3-7/8	7-3/4	4008-0042	4008-1042

SIZE	FLUTE LENGTH	OVERALL LENGTH	Straight ORDER No.	Spiral ORDER No.
23/32	4-1/16	8-1/8	4008-0044	4008-1044
3/4	4-3/16	8-3/8	4008-0046	4008-1046
25/32	4-3/8	8-3/4	4008-0048	4008-1048
13/16	4-9/16	9-1/8	4008-0050	4008-1050
53/64	4-11/16	9-3/8	4008-0052	4008-1052
27/32	4-11/16	9-3/8	4008-0054	4008-1054
7/8	4-7/8	9-3/4	4008-0056	4008-1056
29/32	5	10	4008-0058	4008-1058
15/16	5-1/8	10-1/4	4008-0060	4008-1060
31/32	5-5/16	10-5/8	4008-0062	4008-1062
63/64	5-7/16	10-7/8	4008-0064	4008-1064
1	5-7/16	10-7/8	4008-0066	4008-1066
1-1/16	5-5/8	11-1/4	4008-0068	4008-1068
1-1/8	5-13/16	11-5/8	4008-0070	4008-1070
1-3/16	6	12	4008-0072	4008-1072
1-1/4	6-1/8	12-1/4	4008-0074	4008-1074
1-5/16	6-1/4	12-1/2	4008-0076	4008-1076
1-3/8	6-5/16	12-5/8	4008-0078	4008-1078
1-7/16	6-7/16	12-7/8	4008-0080	4008-1080
1-1/2	6-1/2	13	4008-0082	4008-1082

SIZE	FLUTE LENGTH	OVERALL LENGTH	Straight ORDER No.	Spiral ORDER No.
5	44	87	4009-0032	4009-1032
5.5	47	93	4009-0034	4009-1034
6	47	93	4009-0036	4009-1036
7	54	107	4009-0038	4009-1038
8	58	115	4009-0040	4009-1040
9	62	124	4009-0042	4009-1042
10	66	133	4009-0044	4009-1044
11	71	142	4009-0046	4009-1046
12	76	152	4009-0048	4009-1048
13	76	152	4009-0050	4009-1050
14	81	163	4009-0052	4009-1052
15	81	163	4009-0054	4009-1054
16	87	175	4009-0056	4009-1056
17	87	175	4009-0058	4009-1058
18	93	188	4009-0060	4009-1060
19	93	188	4009-0062	4009-1062
20	100	201	4009-0064	4009-1064
22	107	215	4009-0066	4009-1066
24	115	231	4009-0068	4009-1068
25	115	231	4009-0070	4009-1070

SIZE	FLUTE LENGTH	OVERALL LENGTH	Straight ORDER No.	Spiral ORDER No.
26	115	231	4009-0072	4009-1072
28	124	247	4009-0074	4009-1074
30	124	247	4009-0076	4009-1076
32	133	265	4009-0078	4009-1078
34	142	284	4009-0080	4009-1080
35	142	284	4009-0082	4009-1082
36	142	284	4009-0084	4009-1084
38	152	305	4009-0086	4009-1086
40	152	305	4009-0088	4009-1088
42	152	305	4009-0090	4009-1090
44	163	326	4009-0092	4009-1092
45	163	326	4009-0094	4009-1094
46	163	326	4009-0096	4009-1096
48	174	347	4009-0098	4009-1098
50	174	347	4009-0100	4009-1100
52	174	347	4009-0102	4009-1102
55	184	367	4009-0104	4009-1104
58	184	367	4009-0106	4009-1106
60	184	367	4009-0108	4009-1108

Reamers

Machine Reamers

机用铰刀



SIZE	FLUTE LENGTH	OVERALL LENGTH	Straight ORDER No.	Spiral ORDER No.
11/64	1-1/8	4-1/2	4000-0002	4000-1002
3/16	1-1/8	4-1/2	4000-0004	4000-1004
13/64	1-1/4	5	4000-0006	4000-1006
7/32	1-1/4	5	4000-0008	4000-1008
15/64	1-1/2	6	4000-0010	4000-1010
1/4	1-1/2	6	4000-0012	4000-1012
17/64	1-1/2	6	4000-0014	4000-1014
9/32	1-1/2	6	4000-0016	4000-1016
19/64	1-1/2	6	4000-0018	4000-1018
5/16	1-1/2	6	4000-0020	4000-1020
21/64	1-1/2	6	4000-0022	4000-1022
11/32	1-1/2	6	4000-0024	4000-1024
23/64	1-1/2	7	4000-0026	4000-1026
3/8	1-3/4	7	4000-0028	4000-1028
25/64	1-3/4	7	4000-0030	4000-1030
13/32	1-3/4	7	4000-0032	4000-1032
27/64	1-3/4	7	4000-0034	4000-1034
7/16	1-3/4	7	4000-0036	4000-1036
29/64	1-3/4	7	4000-0038	4000-1038
15/32	1-3/4	7	4000-0040	4000-1040
31/64	1-3/4	8	4000-0042	4000-1042
1/2	2	8	4000-0044	4000-1044
33/64	2	8	4000-0046	4000-1046
17/32	2	8	4000-0048	4000-1048
35/64	2	8	4000-0050	4000-1050
9/16	2	8	4000-0052	4000-1052
37/64	2	8	4000-0054	4000-1054
19/32	2	8	4000-0056	4000-1056
39/64	2-1/4	8	4000-0058	4000-1058
5/8	2-1/4	9	4000-0060	4000-1060
41/64	2-1/4	9	4000-0062	4000-1066
21/32	2-1/4	9	4000-0064	4000-1008
43/64	2-1/4	9	4000-0066	4000-1010
11/16	2-1/4	9	4000-0068	4000-1068
45/64	2-1/4	9	4000-0070	4000-1070
23/32	2-1/4	9	4000-0072	4000-1072

SIZE	FLUTE LENGTH	OVERALL LENGTH	Straight ORDER No.	Spiral ORDER No.
47/64	2-1/2	9	4000-0074	4000-1074
3/4	2-1/2	9-1/2	4000-0076	4000-1076
49/64	2-1/2	9-1/2	4000-0078	4000-1078
25/32	2-1/2	9-1/2	4000-0080	4000-1080
51/64	2-1/2	9-1/2	4000-0082	4000-1082
13/16	2-1/2	9-1/2	4000-0084	4000-1084
53/64	2-1/2	9-1/2	4000-0086	4000-1086
27/32	2-1/2	9-1/2	4000-0088	4000-1088
55/64	2-5/8	9-1/2	4000-0090	4000-1090
7/8	2-5/8	10	4000-0092	4000-1092
57/64	2-5/8	10	4000-0094	4000-1094
29/32	2-5/8	10	4000-0096	4000-1096
59/64	2-5/8	10	4000-0098	4000-1098
15/16	2-5/8	10	4000-0100	4000-1100
61/64	2-5/8	10	4000-0102	4000-1102
31/32	2-5/8	10	4000-0104	4000-1104
63/64	2-3/4	10	4000-0106	4000-1106
1	2-3/4	10-1/2	4000-0108	4000-1108
1-1/32	2-3/4	10-1/2	4000-0110	4000-1110
1-1/16	2-3/4	10-1/2	4000-0112	4000-1112
1-3/32	2-3/4	10-1/2	4000-0114	4000-1114
1-1/8	2-7/8	11	4000-0116	4000-1116
1-5/32	2-7/8	11	4000-0118	4000-1118
1-3/16	2-7/8	11	4000-0120	4000-1120
1-7/32	2-7/8	11	4000-0124	4000-1124
1-1/4	3	11-1/2	4000-0126	4000-1126
1-5/16	3	11-1/2	4000-0128	4000-1128
1-3/8	3-1/4	12	4000-0130	4000-1130
1-7/16	3-1/4	12	4000-0132	4000-1132
1-1/2	3-1/2	12-1/2	4000-0134	4000-1134
1-9/16	3-1/2	12-1/2	4000-0136	4000-1136
1-5/8	3-1/2	13	4000-0138	4000-1138
1-11/16	3-1/2	13	4000-0140	4000-1140
1-3/4	4	13-1/2	4000-0142	4000-1142
1-7/8	4	14	4000-0144	4000-1144
2	4	14	4000-0146	4000-1146

SIZE	FLUTE LENGTH	OVERALL LENGTH	Straight ORDER No.	Spiral ORDER No.
5.0	23	86	4004-0050	4004-1050
5.5	26	93	4004-0055	4004-1055
6.0	26	93	4004-0060	4004-1060
6.5	28	101	4004-0065	4004-1065
7.0	31	109	4004-0070	4004-1070
7.5	31	109	4004-0075	4004-1075
8.0	33	117	4004-0080	4004-1080
8.5	33	117	4004-0085	4004-1085
9.0	36	125	4004-0090	4004-1090
9.5	36	125	4004-0095	4004-1095
10.0	38	133	4004-0100	4004-1100
10.5	38	133	4004-0105	4004-1105

SIZE	FLUTE LENGTH	OVERALL LENGTH	Straight ORDER No.	Spiral ORDER No.
11.0	41	142	4004-0110	4004-1110
11.5	41	142	4004-0115	4004-1115
12.0	44	151	4004-0120	4004-1120
12.5	44	151	4004-0125	4004-1125
13.0	44	151	4004-0130	4004-1130
13.5	44	151	4004-0135	4004-1135
14.0	47	160	4004-0140	4004-1140
14.5	50	162	4004-0145	4004-1145
15.0	50	162	4004-0150	4004-1150
15.5	52	170	4004-0155	4004-1155
16.0	52	170	4004-0160	4004-1160
16.5	54	175	4004-0165	4004-1165

SIZE	FLUTE LENGTH	OVERALL LENGTH	Straight ORDER No.	Spiral ORDER No.
17.0	54	175	4004-0170	4004-1170
17.5	54	182	4004-0175	4004-1175
18.0	56	182	4004-0180	4004-1180
18.5	56	182	4004-0185	4004-1185
19.0	58	189	4004-0190	4004-1190
19.5	58	189	4004-0195	4004-1195
20.0	60	195	4004-0200	4004-1200
20.5	60	215	4004-0205	4004-1205
21.0	60	215	4004-0210	4004-1210

SIZE	FLUTE LENGTH	OVERALL LENGTH	Straight ORDER No.	Spiral ORDER No.
21.5	60	225	4004-0215	4004-1215
22.0	60	225	4004-0220	4004-1220
22.5	60	230	4004-0225	4004-1225
23.0	60	230	4004-0230	4004-1230
23.5	60	240	4004-0235	4004-1235
24.0	60	240	4004-0240	4004-1240
24.5	60	245	4004-0245	4004-1245
25.0	60	245	4004-0250	4004-1250

Taper Shank Machine Reamers



SIZE	FLUTE LENGTH	OVERALL LENGTH	Straight ORDER No.	Spiral ORDER No.
1/4	1-1/2	6×MT1	4010-0002	4010-1002
9/32	1-1/2	6×MT1	4010-0004	4010-1004
5/16	1-1/2	6×MT1	4010-0006	4010-1006
11/32	1-1/2	6×MT1	4010-0008	4010-1008
3/8	1-3/4	7×MT1	4010-0010	4010-1010
13/32	1-3/4	7×MT1	4010-0012	4010-1012
7/16	1-3/4	7×MT1	4010-0014	4010-1014
15/32	1-3/4	7×MT1	4010-0016	4010-1016
1/2	2	8×MT1	4010-0018	4010-1018
17/32	2	8×MT1	4010-0020	4010-1020
9/16	2	8×MT1	4010-0022	4010-1022
19/32	2	8×MT1	4010-0024	4010-1024
5/8	2-1/4	9×MT2	4010-0026	4010-1026
21/32	2-1/4	9×MT2	4010-0028	4010-1028
11/16	2-1/4	9×MT2	4010-0030	4010-1030
23/32	2-1/4	9×MT2	4010-0032	4010-1032
3/4	2-1/2	9-1/2×MT2	4010-0034	4010-1034

DIN208 H7				
SIZE	FLUTE LENGTH	OVERALL LENGTH	Straight ORDER No.	Spiral ORDER No.
5mm	23	133×MT1	4010-0001	4010-1001
6	26	138×MT1	4010-0003	4010-1003
7	31	150×MT1	4010-0005	4010-1005
8	33	156×MT1	4010-0007	4010-1007
9	36	162×MT1	4010-0009	4010-1009
10	38	168×MT1	4010-0011	4010-1011
11	41	175×MT1	4010-0013	4010-1013
12	44	182×MT1	4010-0015	4010-1015
13	44	182×MT1	4010-0017	4010-1017
14	47	189×MT1	4010-0019	4010-1019
15	50	204×MT2	4010-0021	4010-1021
16	52	210×MT2	4010-0023	4010-1023
17	54	214×MT2	4010-0025	4010-1025
18	56	219×MT2	4010-0027	4010-1027
19	58	223×MT2	4010-0029	4010-1029
20	60	228×MT2	4010-0031	4010-1031
21	62	232×MT2	4010-0033	4010-1033

SIZE	FLUTE LENGTH	OVERALL LENGTH	Straight ORDER No.	Spiral ORDER No.
25/32	2-1/2	9-1/2×MT2	4010-0036	4010-1036
13/16	2-1/2	9-1/2×MT2	4010-0038	4010-1038
27/32	2-1/2	9-1/2×MT2	4010-0040	4010-1040
7/8	2-5/8	10×MT2	4010-0042	4010-1042
29/32	2-5/8	10×MT2	4010-0044	4010-1044
15/16	2-5/8	10×MT3	4010-0046	4010-1046
31/32	2-5/8	10×MT3	4010-0048	4010-1048
1	2-3/4	10-1/2×MT3	4010-0050	4010-1050
1-1/16	2-3/4	10-1/2×MT3	4010-0052	4010-1052
1-1/8	2-7/8	11×MT3	4010-0054	4010-1054
1-3/16	2-7/8	11×MT3	4010-0056	4010-1056
1-1/4	3	11-1/2×MT4	4010-0058	4010-1058
1-5/16	3	11-1/2×MT4	4010-0060	4010-1060
1-3/8	3-1/4	12×MT4	4010-0062	4010-1062
1-7/16	3-1/4	12×MT4	4010-0064	4010-1064
1-1/2	3-1/4	12-1/2×MT4	4010-0066	4010-1066

DIN208 H7				
SIZE	FLUTE LENGTH	OVERALL LENGTH	Straight ORDER No.	Spiral ORDER No.
22	64	237×MT2	4010-0035	4010-1035
23	66	241×MT2	4010-0037	4010-1037
24	68	268×MT2	4010-0039	4010-1039
25	68	268×MT2	4010-0041	4010-1041
26	70	273×MT3	4010-0043	4010-1043
27	71	277×MT3	4010-0045	4010-1045
28	71	277×MT3	4010-0047	4010-1047
29	73	281×MT3	4010-0049	4010-1049
30	73	281×MT3	4010-0051	4010-1051
31	75	285×MT3	4010-0053	4010-1053
32	77	317×MT4	4010-0055	4010-1055
34	78	321×MT4	4010-0057	4010-1057
35	78	321×MT4	4010-0059	4010-1059
36	79	325×MT4	4010-0061	4010-1061
38	81	329×MT4	4010-0063	4010-1063
40	81	329×MT4	4010-0065	4010-1065

Reamers

Morse Reamers

莫氏绞刀



Roughing					
SIZE	SMALL DIA	LARGE DIA	FLUTE LENGTH	OVERALL LENGTH	ORDER No.
0	.2503	.3673	2-1/4	3-3/4	4014-0102
1	.3674	.5170	3	5	4014-0104
2	.5696	.7444	3-1/2	6	4014-0106
3	.7748	.9881	4-1/4	7-1/4	4014-0108
4	1.0167	1.2893	5-1/4	8-1/2	4014-0110
5	1.4717	1.8005	6-1/4	9-3/4	4014-0112
6	2.1120	2.5550	8-1/2	12-1/4	4014-0114

Finishing					
SIZE	SMALL DIA	LARGE DIA	FLUTE LENGTH	OVERALL LENGTH	ORDER No.
0	.2503	.3673	2-1/4	3-3/4	4014-0202
1	.3674	.5170	3	5	4014-0204
2	.5696	.7444	3-1/2	6	4014-0206
3	.7748	.9881	4-1/4	7-1/4	4014-0208
4	1.0167	1.2893	5-1/4	8-1/2	4014-0210
5	1.4717	1.8005	6-1/4	9-3/4	4014-0212
6	2.1120	2.5550	8-1/2	12-1/4	4014-0214

Roughing					
SIZE	SMALL DIA	LARGE DIA	FLUTE LENGTH	OVERALL LENGTH	ORDER No.
0	6.547	9.722	61	93	4015-0102
1	9.571	12.863	66	102	4015-0104
2	14.733	18.679	79	121	4015-0106
3	20.010	24.829	96	146	4015-0108
4	26.229	32.410	119	179	4015-0110
5	37.873	45.767	150	222	4015-0112
6	54.172	65.016	208	300	4015-0114

Finishing					
SIZE	SMALL DIA	LARGE DIA	FLUTE LENGTH	OVERALL LENGTH	ORDER No.
0	6.547	9.722	61	93	4015-0202
1	9.571	12.863	66	102	4015-0204
2	14.733	18.679	79	121	4015-0206
3	20.010	24.829	96	146	4015-0208
4	26.229	32.410	119	179	4015-0210
5	37.873	45.767	150	222	4015-0212
6	54.172	65.016	208	300	4015-0214



Roughing					
SIZE	SMALL DIA	LARGE DIA	FLUTE LENGTH	OVERALL LENGTH	ORDER No.
0	.2503	.3673	2-1/4	3-3/4×MT1	4014-0302
1	.3674	.5170	3	5×MT1	4014-0304
2	.5696	.7444	3-1/2	6×MT2	4014-0306
3	.7748	.9881	4-1/4	7-1/4×MT3	4014-0308
4	1.0167	1.2893	5-1/4	8-1/2×MT4	4014-0310
5	1.4717	1.8005	6-1/4	9-3/4×MT5	4014-0312
6	2.1120	2.5550	8-1/2	12-1/4×MT5	4014-0314

Finishing					
SIZE	SMALL DIA	LARGE DIA	FLUTE LENGTH	OVERALL LENGTH	ORDER No.
0	.2503	.3673	2-1/4	3-3/4×MT1	4014-0402
1	.3674	.5170	3	5×MT1	4014-0404
2	.5696	.7444	3-1/2	6×MT2	4014-0406
3	.7748	.9881	4-1/4	7-1/4×MT3	4014-0408
4	1.0167	1.2893	5-1/4	8-1/2×MT4	4014-0410
5	1.4717	1.8005	6-1/4	9-3/4×MT5	4014-0412
6	2.1120	2.5550	8-1/2	12-1/4×MT5	4014-0414

Roughing					
SIZE	SMALL DIA	LARGE DIA	FLUTE LENGTH	OVERALL LENGTH	ORDER No.
0	6.547	9.722	61×6T	137×MT1	4015-0302
1	9.571	12.863	66×7T	142×MT1	4015-0304
2	14.733	18.679	79×8T	173×MT2	4015-0306
3	20.010	24.829	96×8T	212×MT3	4015-0308
4	26.229	32.410	119×10T	263×MT4	4015-0310
5	37.873	45.767	150×12T	331×MT5	4015-0312
6	54.172	65.016	208×14T	389×MT5	4015-0314

Finishing					
SIZE	SMALL DIA	LARGE DIA	FLUTE LENGTH	OVERALL LENGTH	ORDER No.
0	6.547	9.722	61×6T	137×MT1	4015-0402
1	9.571	12.863	66×7T	142×MT1	4015-0404
2	14.733	18.679	79×8T	173×MT2	4015-0406
3	20.010	24.829	96×8T	212×MT3	4015-0408
4	26.229	32.410	119×10T	263×MT4	4015-0410
5	37.873	45.767	150×12T	331×MT5	4015-0412
6	54.172	65.016	208×14T	389×MT5	4015-0414

Taper Shank Bridge Reamers

莫氏桥梁铰刀



SIZE	FLUTE LENGTH	OVERALL LENGTH	MORSE TAPER	ORDER No.
17/64	2-3/4	5-1/2	1	4020-0010
19/64	2	5-1/4	1	4020-0020
5/16	4-3/8	8-1/4	1	4020-0030
11/32	4	7-1/4	1	4020-0040
3/8	4-3/8	8-1/4	2	4020-0050
13/32	4-3/8	8-1/4	2	4020-0060
27/64	4-3/8	8-1/4	2	4020-0070
7/16	4-3/8	8-1/4	2	4020-0080
15/32	5-1/8	9	2	4020-0090
1/2	5-1/8	9	2	4020-0100
17/32	5-1/8	9	2	4020-0110
9/16	5-1/8	9	2	4020-0120
19/32	6-1/8	10-7/8	2	4020-0130
5/8	6-3/8	10	2	4020-0140
21/32	7	12	2	4020-0150
11/16	7-1/8	11-3/4	2	4020-0160
11/16	7-1/8	11-3/4	3	4020-0170
23/32	7-1/8	11-3/4	3	4020-0180
3/4	7-3/8	12	3	4020-0190
25/32	7-3/8	12	3	4020-0200
13/16	7-3/8	12	3	4020-0210
7/8	7-3/8	12	3	4020-0220

DIN 311				
SIZE	FLUTE LENGTH	OVERALL LENGTH	MORSE TAPER	ORDER No.
6.4	75	151	1	4021-0010
7.4	80	156	1	4021-0020
8	85	161	1	4021-0030
8.4	85	161	1	4021-0040
9	90	166	1	4021-0050
9.5	90	166	1	4021-0060
10	95	171	1	4021-0070
11	100	176	1	4021-0080
12	105	199	2	4021-0090
13	105	199	2	4021-0100
14	115	209	2	4021-0110
15	125	219	2	4021-0120
16	135	229	2	4021-0130
17	135	251	3	4021-0140
18	145	261	3	4021-0150
19	145	261	3	4021-0160
20	155	271	3	4021-0170
21	155	271	3	4021-0180
22	165	281	3	4021-0190

SIZE	FLUTE LENGTH	OVERALL LENGTH	MORSE TAPER	ORDER No.
15/16	7-3/8	12	3	4020-0230
1	7-3/8	12	3	4020-0240
1-1/32	7-1/2	12-1/4	4	4020-0250
1-1/16	7-3/8	12	3	4020-0260
1-3/32	6-13/16	11-1/2	3	4020-0270
1-1/8	7-3/8	12	3	4020-0280
1-5/32	7-1/2	11-1/2	3	4020-0290
1-3/16	7-3/8	12	3	4020-0300
1-1/4	7-3/8	13	4	4020-0310
1-5/16	7-3/8	13	4	4020-0320
1-3/8	7-3/8	13	4	4020-0330
1-7/16	7-3/8	13	4	4020-0340
1-15/32	6-7/8	13	4	4020-0350
1-1/2	7-3/8	13	4	4020-0360
1-9/16	7-3/8	13	4	4020-0370
1-5/8	7-3/8	13	4	4020-0380
1-11/16	7-3/8	13	4	4020-0390
1-3/4	7-3/8	13	4	4020-0400
1-13/16	7-3/8	13	4	4020-0410
1-7/8	7-3/8	13	4	4020-0420
1-15/16	7-3/8	13	4	4020-0430
2	7-3/8	13	4	4020-0440

SIZE	FLUTE LENGTH	OVERALL LENGTH	MORSE TAPER	ORDER No.
23	165	281	3	4021-0200
24	180	296	3	4021-0210
25	180	296	3	4021-0220
26	180	296	3	4021-0230
27	195	311	3	4021-0240
28	195	311	3	4021-0250
29	195	311	3	4021-0260
30	195	311	3	4021-0270
31	210	326	3	4021-0280
32	210	354	4	4021-0290
33	210	354	4	4021-0300
34	220	364	4	4021-0310
35	220	364	4	4021-0320
36	220	364	4	4021-0330
37	220	364	4	4021-0340
38	230	374	4	4021-0350
39	230	374	4	4021-0360
40	230	374	4	4021-0370

Reamers

HSS Shell Reamers

套式铰刀

FEATURES:

- * Used with shell Reamer Arbors.
- * One size arbor fits a range of sizes.
- * More economical, particularly where larger size are concerned.

KEY BENEFITS:

- * Shell reamers are designed as a sizing or finishing reamer and are held on an arbor with driving lugs.



Imperial

SIZE	OVERALL LENGTH	HOLE DIA	Straight ORDER	Spiral ORDER	SIZE	OVERALL LENGTH	HOLE DIA	Straight ORDER	Spiral ORDER
3/4	2-1/4	3/8	4038-0002	4038-1002	2-7/16	3-3/4	1-1/4	4038-0056	4038-1056
13/16	2-1/2	1/2	4038-0004	4038-1004	2-1/2	3-3/4	1-1/4	4038-0058	4038-1058
7/8	2-1/2	1/2	4038-0006	4038-1006	2-9/16	4	1-1/2	4038-0060	4038-1060
15/16	2-1/2	1/2	4038-0008	4038-1008	2-5/8	4	1-1/2	4038-0062	4038-1062
1	2-1/2	1/2	4038-0010	4038-1010	2-11/16	4	1-1/2	4038-0064	4038-1064
1-1/16	2-3/4	5/8	4038-0012	4038-1012	2-3/4	4	1-1/2	4038-0066	4038-1066
1-1/8	2-3/4	5/8	4038-0014	4038-1014	2-13/16	4	1-1/2	4038-0068	4038-1068
1-3/16	2-3/4	5/8	4038-0016	4038-1016	2-7/8	4	1-1/2	4038-0070	4038-1070
1-1/4	2-3/4	5/8	4038-0018	4038-1018	2-15/16	4	1-1/2	4038-0072	4038-1072
1-5/16	3	3/4	4038-0020	4038-1020	3	4	1-1/2	4038-0074	4038-1074
1-3/8	3	3/4	4038-0022	4038-1022	3-1/16	4-1/2	1-3/4	4038-0076	4038-1076
1-7/16	3	3/4	4038-0024	4038-1024	3-1/8	4-1/2	1-3/4	4038-0078	4038-1078
1-1/2	3	3/4	4038-0026	4038-1026	3-3/16	4-1/2	1-3/4	4038-0080	4038-1080
1-9/16	3	3/4	4038-0028	4038-1028	3-1/4	4-1/2	1-3/4	4038-0082	4038-1082
1-5/8	3	3/4	4038-0030	4038-1030	3-5/16	4-1/2	1-3/4	4038-0084	4038-1084
1-11/16	3-1/2	1	4038-0032	4038-1032	3-3/8	4-1/2	1-3/4	4038-0086	4038-1086
1-3/4	3-1/2	1	4038-0034	4038-1034	3-7/16	4-1/2	1-3/4	4038-0088	4038-1088
1-13/16	3-1/2	1	4038-0036	4038-1036	3-1/2	4-1/2	1-3/4	4038-0090	4038-1090
1-7/8	3-1/2	1	4038-0038	4038-1038	3-9/16	5	2	4038-0092	4038-1092
1-15/16	3-1/2	1	4038-0040	4038-1040	3-5/8	5	2	4038-0094	4038-1094
2	3-1/2	1	4038-0042	4038-1042	3-11/16	5	2	4038-0096	4038-1096
2-1/16	3-3/4	1-1/4	4038-0044	4038-1044	3-3/4	5	2	4038-0098	4038-1098
2-1/8	3-3/4	1-1/4	4038-0046	4038-1046	3-13/16	5	2	4038-0100	4038-1100
2-3/16	3-3/4	1-1/4	4038-0048	4038-1048	3-7/8	5	2	4038-0102	4038-1102
2-1/4	3-3/4	1-1/4	4038-0050	4038-1050	3-15/16	5	2	4038-0104	4038-1104
2-5/16	3-3/4	1-1/4	4038-0052	4038-1052	4	5	2	4038-0106	4038-1106
2-3/8	3-3/4	1-1/4	4038-0054	4038-1054					

Metric-DIN219

SIZE	OVERALL LENGTH	HOLE DIA	Straight ORDER	Spiral ORDER	SIZE	OVERALL LENGTH	HOLE DIA	Straight ORDER	Spiral ORDER
20	40	10	4039-0002	4039-1002	47	63	22	4039-0048	4039-1048
21	40	10	4039-0004	4039-1004	48	63	22	4039-0050	4039-1050
22	40	10	4039-0006	4039-1006	50	63	22	4039-0052	4039-1052
23	40	10	4039-0008	4039-1008	52	71	27	4039-0054	4039-1054
24	45	13	4039-0010	4039-1010	55	71	27	4039-0056	4039-1056
25	45	13	4039-0012	4039-1012	58	71	27	4039-0058	4039-1058
26	45	13	4039-0014	4039-1014	60	71	27	4039-0060	4039-1060
27	45	13	4039-0016	4039-1016	62	80	32	4039-0062	4039-1062
28	45	13	4039-0018	4039-1018	65	80	32	4039-0064	4039-1064
29	45	13	4039-0020	4039-1020	68	80	32	4039-0066	4039-1066
30	45	13	4039-0022	4039-1022	70	80	32	4039-0068	4039-1068
31	50	16	4039-0024	4039-1024	72	90	40	4039-0070	4039-1070
32	50	16	4039-0026	4039-1026	75	90	40	4039-0072	4039-1072
34	50	16	4039-0028	4039-1028	78	90	40	4039-0074	4039-1074
35	50	16	4039-0030	4039-1030	80	90	40	4039-0076	4039-1076
36	56	19	4039-0032	4039-1032	82	90	40	4039-0078	4039-1078
37	56	19	4039-0034	4039-1034	85	90	40	4039-0080	4039-1080
38	56	19	4039-0036	4039-1036	88	100	50	4039-0082	4039-1082
40	56	19	4039-0038	4039-1038	90	100	50	4039-0084	4039-1084
42	56	22	4039-0040	4039-1040	92	100	50	4039-0086	4039-1086
44	63	22	4039-0042	4039-1042	95	100	50	4039-0088	4039-1088
45	63	22	4039-0044	4039-1044	98	100	50	4039-0090	4039-1090
46	63	22	4039-0046	4039-1046	100	100	50	4039-0092	4039-1092

HSS Reamers Sets 套装铰刀



16Pcs/Sets Taper Shank Machine Reamers

Size: 6, 8, 10, 12, 13, 14, 15, 16, 17, 18, 20, 21, 22, 23, 24, 25mm
Spiral Order No.-----4010-0160
Straight Order No.---4010-1160



16Pcs/Sets Straight Shank Machine Reamers

Size: 6, 8, 10, 12, 13, 14, 15, 16, 17, 18, 20, 21, 22, 23, 24, 25mm
Spiral Order No.-----4004-0016
Straight Order No.---4004-1016



15Pcs/Sets Hand Reamers

Size: 6, 8, 10, 12, 13, 14, 15, 16, 18, 20, 21, 22, 23, 24, 25mm
Spiral Order No.-----4008-0150
Straight Order No.---4008-1150



14Pcs/Sets Machine Reamers

Size: .124~ .501
Spiral Order No.-----4002-1001
Straight Order No.---4002-0001

A~Z Chucking Reamers

Size: A~Z
Spiral Order No.-----4002-1002
Straight Order No.---4002-0002

Chainsaw Chain Breaker/Spinner

***Chainsaw repairing and reinstallation
combo for optimum performance.***



Order No.MQ02-002

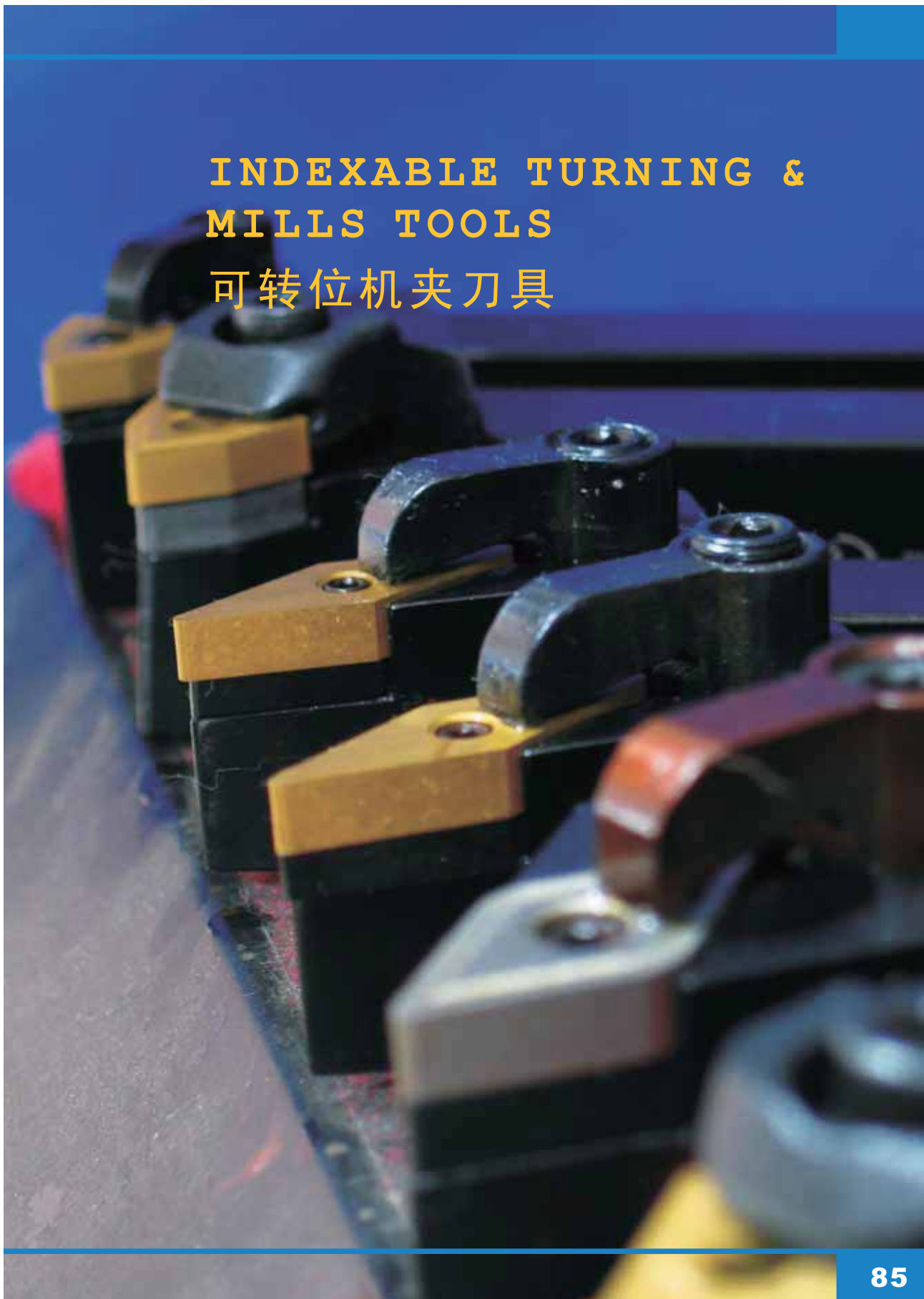


Order No.MQ02-001

- The spinner has different anvils to accommodate 1/4", 0.325", 3/8", 0.404", 7/16" and 1/2" pitch
- Heavy duty steel base plate with mounting holes

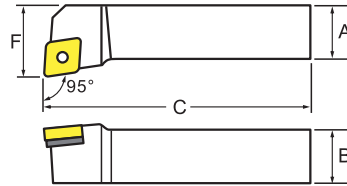
INDEXABLE TURNING & MILLS TOOLS

可转位机夹刀具



Turning Tool Holders

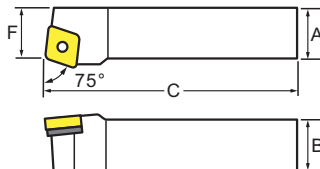
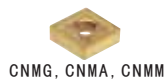
MCLNR MCLNL



MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER#					
	A	B	F	C								
MCLNR/L2020K12	20	20	25	125	CN..1204	2300-0010	2300-1010	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCLNR/L2520M12	20	20	25	150	CN..1204	2300-0011	2300-1011	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCLNR/L2525M12	25	25	32	150	CN..1204	2300-0012	2300-1012	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCLNR/L2525M16	25	25	32	150	CN..1606	2300-0016	2300-1016	C1604B	NL-0822	CL-12	XNS-0829	S3/4
MCLNR/L3225P16	25	32	32	170	CN..1606	2300-0018	2300-1018	C1604B	NL-0822	CL-12	XNS-0829	S3/4
MCLNR/L3232P16	32	32	40	170	CN..1606	2300-0020	2300-1020	C1604B	NL-0822	CL-12	XNS-0829	S3/4
MCLNR/L3232P19	32	32	40	170	CN..1906	2300-0021	2300-1021	C1904B	NL-0823	CL-30	XNS-0829	S4
MCLNR/L4040R19	40	40	50	200	CN..1906	2300-0022	2300-1022	C1904B	NL-0823	CL-30	XNS-0829	S4

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER#					
	A	B	F	C								
MCLNR/L12-4B	0.75	0.75	1.00	4.5	CN..432	2300-5008	2300-6008	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCLNR/L12-4C	0.75	0.75	1.00	5.0	CN..432	2300-5010	2300-6010	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCLNR/L16-4C	1.00	1.00	1.25	5.0	CN..432	2300-5014	2300-6014	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCLNR/L16-4D	1.00	1.00	1.25	6.0	CN..432	2300-5016	2300-6016	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCLNR/L20-4E	1.25	1.25	1.25	7.0	CN..432	2300-5026	2300-6026	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCLNR/L24-4F	1.50	1.00	1.25	8.0	CN..432	2300-5032	2300-6032	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCLNR/L16-5C	1.00	1.00	1.25	6.0	CN..543	2300-5018	2300-6018	C1604B	NL-0822	CL-12	XNS-0829	S3/4
MCLNR/L16-5D	1.25	1.25	1.25	7.0	CN..543	2300-5020	2300-6020	C1604B	NL-0822	CL-12	XNS-0829	S3/4
MCLNR/L20-5E	1.25	1.25	1.25	7.0	CN..543	2300-5028	2300-6028	C1604B	NL-0822	CL-12	XNS-0829	S3/4
MCLNR/L20-6E	1.25	1.25	1.50	7.0	CN..632	2300-5030	2300-6030	C1904B	NL-0823	CL-30	XNS-0829	S4

MCRNR MCRNL

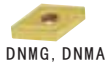


MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER#					
	A	B	F	C								
MCRNR/L2020K12	20	20	17	125	CN..1204	2301-0024	2301-1024	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCRNR/L2525M12	25	25	22	150	CN..1204	2301-0026	2301-1026	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCRNR/L2525M16	25	25	22	150	CN..1606	2301-0030	2301-1030	C1604B	NL-0822	CL-12	XNS-0829	S3/4
MCRNR/L3225P16	25	32	22	170	CN..1606	2301-0032	2301-1032	C1604B	NL-0822	CL-12	XNS-0829	S3/4
MCRNR/L3232P16	32	32	27	170	CN..1606	2301-0034	2301-1034	C1604B	NL-0822	CL-12	XNS-0829	S3/4
MCRNR/L4040R19	40	40	35	200	CN..1906	2301-0036	2301-1036	C1904B	NL-0823	CL-30	XNS-0829	S4

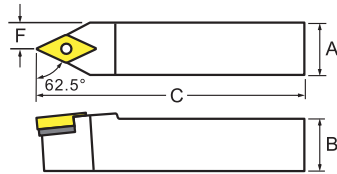
MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER#					
	A	B	F	C								
MCRNR/L12-4C	0.75	0.75	0.875	4.5	CN..432	2301-5034	2301-6034	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCRNR/L16-4D	1.00	1.00	1.125	6.0	CN..432	2301-5038	2301-6038	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCRNR/L20-4E	1.25	1.25	1.313	7.0	CN..432	2301-5042	2301-6042	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4

Turning Tool Holders

MDPNN



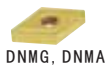
DNMG, DNMA



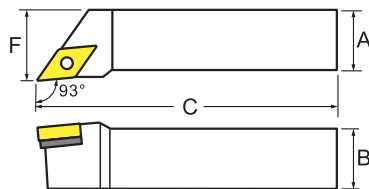
MODEL	DIMENSIONS				INSERT SIZE	ORDER #					
	A	B	F	C							
MDPNN 2525M15	25	25	12.5	150	DN..1506	2303-0008	D1504B	NL-0617	CL-30	XNS-0829	S2.5/4
MDPNN 3225P15	25	32	12.5	170	DN..1506	2303-0014	D1504B	NL-0617	CL-30	XNS-0829	S2.5/4
MDPNN 3232P15	32	32	16	170	DN..1506	2303-0018	D1504B	NL-0617	CL-30	XNS-0829	S2.5/4
MDPNN 4025R15	25	40	12.5	200	DN..1506	2303-0022	D1504B	NL-0822	CL-30	XNS-0829	S2.5/4

MODEL	DIMENSIONS				INSERT SIZE	ORDER #					
	A	B	F	C							
MDPNN 12-4B	0.75	0.75	0.375	4.5	DN..432	2303-5012	D1504B	NL-0617	CL-30	XNS-0829	S2.5/4
MDPNN 16-4D	1.00	1.00	0.500	6.0	DN..432	2303-5014	D1504B	NL-0617	CL-30	XNS-0829	S2.5/4
MDPNN 20-4E	1.25	1.25	0.625	7.0	DN..432	2303-5016	D1504B	NL-0822	CL-30	XNS-0829	S2.5/4

MDPNN



DNMG, DNMA

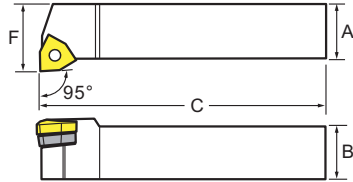


MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
MDJNR/L1616H11	16	16	16	100	DN..1104	2302-0018	2302-1018	D1103B	NL-0414	CL-12	XNS-0829	S2/4
MDJNR/L2020K11	20	20	20	125	DN..1104	2302-0020	2302-1020	D1103B	NL-0617	CL-12	XNS-0829	S2/4
MDJNR/L2020K15	25	25	25	125	DN..1104	2302-0021	2302-1021	D1504B	NL-0822	CL-12	XNS-0829	S2.5/4
MDJNR/L2525M15	25	25	32	150	DN..1104	2302-0026	2302-1026	C1504B	NL-0822	CL-12	XNS-0829	S2.5/4
MDJNR/L3225P15	25	25	32	170	DN..1506	2302-0028	2302-1028	C1504B	NL-0822	CL-12	XNS-0829	S2.5/4
MDJNR/L3232P15	32	32	40	170	DN..1506	2302-0030	2302-1030	C1504B	NL-0823	CL-30	XNS-0829	S2.5/4
MDJNR/L4025R15	25	40	40	200	DN..1506	2302-0032	2302-1032	C1504B	NL-0823	CL-30	XNS-0829	S2.5/4

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
MDJNR/L12-3B	0.75	0.75	1.00	4.5	DN..432	2302-5014	2302-6014	D1103B	NL-0414	CL-12	XNS-0829	S2/4
MDJNR/L12-4C	0.75	0.75	1.00	5.0	DN..432	2302-5016	2302-6016	D1504B	NL-0617	CL-30	XNS-0829	S2.5/4
MDJNR/L16-4C	1.00	1.00	1.25	5.0	DN..432	2302-5018	2302-6018	D1504B	NL-0617	CL-30	XNS-0829	S2.5/4
MDJNR/L16-4D	1.00	1.00	1.25	6.0	DN..432	2302-5020	2302-6020	D1504B	NL-0617	CL-30	XNS-0829	S2.5/4
MDJMR/L24-4E	1.50	1.50	1.25	7.0	DN..432	2302-5024	2302-6024	D1504B	NL-0617	CL-30	XNS-0829	S2.5/4
MDJNR/L24-4F	1.50	1.50	1.25	8.0	DN..543	2302-5028	2302-6028	D1504B	NL-0617	CL-30	XNS-0829	S2.5/4

Turning Tool Holders

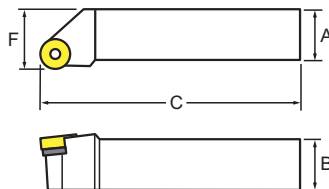
MWLNLR MWLNL



MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER#					
	A	B	F	C								
MWLNLR/L2020K06	20	20	25	125	WN..0604	2316-5006	2316-6006	W0603B	NL-0414	CL-6	XNS-0520	S2/2.5
MWLNLR/L2020K08	20	20	25	125	WN..0804	2316-5008	2316-6008	W0803B	NL-0617	CL-12	XNS-0829	S2.5/4
MWLNLR/L2520M08	20	25	25	150	WN..0804	2316-5010	2316-6010	W0803B	NL-0617	CL-12	XNS-0829	S2.5/4
MWLNLR/L2525M08	25	25	32	150	WN..0804	2316-5012	2316-6012	W0803B	NL-0617	CL-12	XNS-0829	S2.5/4
MWLNLR/L3232P08	32	32	40	170	WN..0804	2316-5014	2316-6014	W0803B	NL-0617	CL-12	XNS-0829	S2.5/4
MWLNLR/L3232P10	32	32	40	170	WN..1006	2316-5016	2316-6016	W1004B	NL-0822	CL-12	XNS-0829	S3/4

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER#					
	A	B	F	C								
MWLNLR/L12-3B	0.75	0.75	1.00	4.5	WN..32	2316-0006	2316-1006	W0603B	NL-0414	CL-6	XNS-0520	S2/2.5
MWLNLR/L12-4C	0.75	0.75	1.00	5.0	WN..43	2316-0008	2316-1008	W0803B	NL-0617	CL-12	XNS-0829	S2.5/4
MWLNLR/L16-4C	1.00	1.00	1.25	5.0	WN..43	2316-0010	2316-1010	W0803B	NL-0617	CL-12	XNS-0829	S2.5/4
MWLNLR/L16-4D	1.00	1.00	1.25	6.0	WN..43	2316-0012	2316-1012	W0803B	NL-0617	CL-12	XNS-0829	S2.5/4
MWLNLR/L20-4E	1.25	1.25	1.50	7.0	WN..43	2316-0014	2316-1014	W0803B	NL-0617	CL-12	XNS-0829	S2.5/4

MRGNR MRGNL



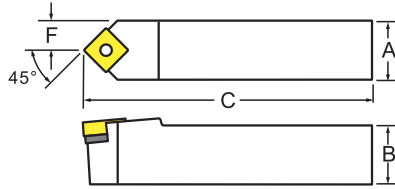
MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER#					
	A	B	F	C								
MRGNR/L2020K10	20	20	25	125	RN..0903	2305-0010	2305-1010	R1003B	NL-0413	CL-12	XNS-0829	S2/4
MRGNR/L2525M10	25	25	32	150	RN..0903	2305-0012	2305-1012	R1003B	NL-0413	CL-12	XNS-0829	S2/4
MRGNR/L2525M12	25	25	32	150	RN..1204	2305-0014	2305-1014	R1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MRGNR/L3225P12	25	32	32	170	RN..1204	2305-0016	2305-1016	R1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MRGNR/L3232P12	32	32	40	170	RN..1204	2305-0018	2305-1018	R1203B	NL-0617	CL-12	XNS-0829	S2.5/4

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER#					
	A	B	F	C								
MRGNR/L12-3B	0.75	0.75	1.00	4.5	RN..32	2305-5008	2305-6008	R1003B	NL-0413	CL-12	XNS-0829	S2/4
MRGNR/L16-3D	0.75	0.75	1.25	6.0	RN..32	2305-5010	2305-6010	R1003B	NL-0413	CL-12	XNS-0829	S2/4
MRGNR/L12-4C	1.00	1.00	1.00	5.0	RN..43	2305-5012	2305-6012	R1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MRGNR/L16-4D	1.00	1.00	1.25	6.0	RN..43	2305-5014	2305-6014	R1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MRGNR/L20-4E	1.25	1.25	1.50	7.0	RN..43	2305-5016	2305-6016	R1203B	NL-0617	CL-12	XNS-0829	S2.5/4

Turning Tool Holders

MSDNN

SNMA, SNMG, SNMM



MODEL	DIMENSIONS				INSERT SIZE	ORDER #	 SHIM	 SHIM PIN	 CLAMP	 CLAMP SCREW	 HEXKEY
	A	B	F	C							
MSDNN1616H09	16	16	8	100	SN..0903	2306-0008	S0903B	NL-0414	CL-6	XNS-0520	S2/2.5
MSDNN2020K12	20	20	10	125	SN..1204	2306-0010	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSDNN2525M12	25	25	12.5	150	SN..1204	2306-0012	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSDNN3225P12	25	32	12.5	170	SN..1204	2306-0014	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSDNN2525M15	25	25	12.5	150	SN..1506	2306-0016	S1503B	NL-0822	CL-12	XNS-0829	S3/4
MSDNN3225P15	25	32	12.5	170	SN..1506	2306-0018	S1503B	NL-0822	CL-12	XNS-0829	S3/4
MSDNN3232P19	32	32	16	170	SN..1906	2306-0020	S1503B	NL-0822	CL-12	XNS-0829	S3/4
MSDNN4040R19	40	40	20	200	SN..1906	2306-0022	S1904B	NL-0823	CL-30	XNS-0829	S4

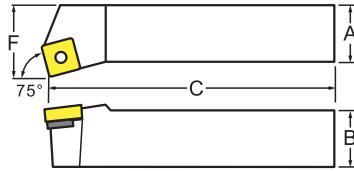
MODEL	DIMENSIONS				INSERT SIZE	ORDER #	 SHIM	 SHIM PIN	 CLAMP	 CLAMP SCREW	 HEXKEY
	A	B	F	C							
MSDNN08-3A	0.5	0.5	.25	4.0	SN..32	2306-5008	S0903B	NL-0414	CL-6	XNS-0520	S2/2.5
MSDNN10-3B	0.625	0.625	.312	4.5	SN..32	2306-5010	S0903B	NL-0414	CL-6	XNS-0520	S2/2.5
MSDNN12-3B	0.75	0.75	.375	4.5	SN..32	2306-5012	S0903B	NL-0414	CL-6	XNS-0520	S2/2.5
MSDNN12-4C	0.75	0.75	.375	5.0	SN..43	2306-5014	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSDNN16-4D	1.00	1.00	.5	6.0	SN..43	2306-5016	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSDNN16-5D	1.00	1.00	.5	6.0	SN..54	2306-5018	S1503B	NL-0822	CL-12	XNS-0829	S3/4
MSDNN85-5E	1.00	1.25	.625	7.0	SN..54	2306-5024	S1503B	NL-0822	CL-12	XNS-0829	S3/4
MSDNN20-5E	1.25	1.25	.625	7.0	SN..54	2306-5026	S1503B	NL-0822	CL-30	XNS-0829	S3/4
MSDNN20-6E	1.25	1.25	.625	7.0	SN..64	2306-5028	S1904B	NL-0823	CL-30	XNS-0829	S4
MSDNN20-6F	1.5	1.5	.75	8.0	SN..64	2306-5030	S1904B	NL-0823	CL-30	XNS-0829	S4

Turning Tool Holders

MSKNR MSKNL



SNMA, SNMG, SNMM

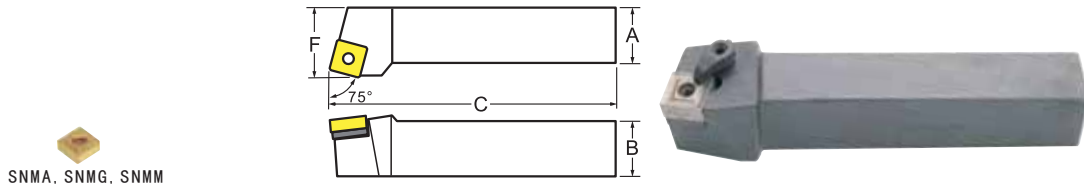


MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER#					
	A	B	F	C								
MSKNR/L1616H09 16	16	20	100	100	SN..0903	2307-0008	2307-1008	S0903B	NL-0413	CL-6	XNS-0520	S2/2.5
MSKNR/L2020K09 20	20	25	125	125	SN..0903	2307-0010	2307-1010	S0903B	NL-0413	CL-6	XNS-0520	S2/2.5
MSKNR/L1616H12 16	16	20	100	100	SN..1204	2307-0012	2307-1012	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSKNR/L2020K12 20	20	25	125	125	SN..1204	2307-0014	2307-1014	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSKNR/L2525M12 25	25	32	150	150	SN..1204	2307-0016	2307-1016	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSKNR/L3225P12 25	32	32	170	170	SN..1204	2307-0018	2307-1018	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSKNR/L2525M15 25	25	32	150	150	SN..1506	2307-0020	2307-1020	S1504B	NL-0822	CL-12	XNS-0829	S3/4
MSKNR/L3225P15 25	32	32	170	170	SN..1506	2307-0022	2307-1022	S1504B	NL-0822	CL-12	XNS-0829	S3/4
MSKNR/L3232P15 32	32	40	170	170	SN..1506	2307-0024	2307-1024	S1504B	NL-0822	CL-12	XNS-0829	S3/4
MSKNR/L4040R19 40	40	50	200	200	SN..1906	2307-0026	2307-1026	S1904B	NL-0823	CL-12	XNS-0829	S4

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER#					
	A	B	F	C								
MSKNR/L12-4C	0.75	0.75	1.00	5.0	SN..43	2307-5008	2307-6008	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSKNR/L16-4D	1.00	1.00	1.20	6.0	SN..43	2307-5010	2307-6010	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSKNR/L16-5D	1.00	1.00	1.25	6.0	SN..54	2307-5012	2307-6012	S1504B	NL-0822	CL-12	XNS-0829	S4

Turning Tool Holders

MSRNR MSRNL

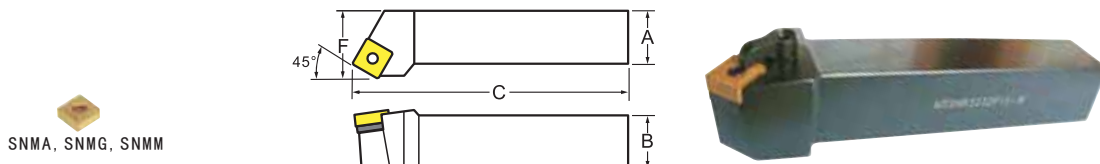


SNMA, SNMG, SNMM

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM PIN	CLAMP	CLAMP SCREW	HEXKEY
	A	B	F	C								
MSRNR/L1616H09	16	16	17	100	SN..0903	2308-0008	2308-1008	S0903B	NL-0413	CL-6	XNS-0520	S2/2.5
MSRNR/L2020K09	20	20	22	125	SN..0903	2308-0010	2308-1010	S0903B	NL-0413	CL-6	XNS-0520	S2/2.5
MSRNR/L2020K12	20	20	22	125	SN..1204	2308-0012	2308-1012	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSRNR/L2525M12	25	25	27	150	SN..1204	2308-0014	2308-1014	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSRNR/L3225P12	25	32	27	170	SN..1506	2308-0016	2308-1016	S1504B	NL-0617	CL-12	XNS-0829	S2.5/4
MSRNR/L2525M15	25	25	27	150	SN..1506	2308-0018	2308-1018	S1504B	NL-0822	CL-12	XNS-0829	S3/4
MSRNR/L3225P15	25	32	27	170	SN..1506	2308-0020	2308-1020	S1504B	NL-0822	CL-12	XNS-0829	S3/4
MSRNR/L3232P15	32	32	35	170	SN..1506	2308-0022	2308-1022	S1504B	NL-0822	CL-12	XNS-0829	S3/4
MSRNR/L4040R19	40	40	43	200	SN..1906	2308-0024	2308-1024	S1904B	NL-0823	CL-30	XNS-0829	S4

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM PIN	CLAMP	CLAMP SCREW	HEXKEY
	A	B	F	C								
MSRNR/L12-3B	0.75	0.75	.88	4.5	SN..33	2308-5008	2308-6008	S0903B	NL-0413	CL-6	XNS-0520	S2/2.5
MSRNR/L12-4C	0.75	0.75	.88	5.0	SN..43	2308-5010	2308-6010	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSRNR/L16-4D	1.00	1.00	1.13	6.0	SN..43	2308-5012	2308-6012	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSRNR/L20-4E	1.25	1.25	1.353	7.0	SN..43	2308-5018	2308-6018	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSRNR/L16-5D	1.00	1.00	1.103	6.0	SN..54	2308-5014	2308-6014	S1504B	NL-0822	CL-12	XNS-0829	S3/4
MSRNR/L20-6E	1.25	1.25	1.321	7.0	SN..64	2308-5020	2308-6020	S1904B	NL-0823	CL-30	XNS-0829	S4

MSSNR MSSNL



SNMA, SNMG, SNMM

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM PIN	CLAMP	CLAMP SCREW	HEXKEY
	A	B	F	C								
MSSNR/L1616H09	16	16	20	100	SN..0903	2309-0008	2309-1008	S0903B	NL-0413	CL-6	XNS-0520	S2/2.5
MSSNR/L2020K09	20	20	25	125	SN..0903	2309-0010	2309-1010	S0903B	NL-0413	CL-6	XNS-0520	S2/2.5
MSSNR/L1616H12	16	16	20	100	SN..1204	2309-0012	2309-1012	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSSNR/L2020K12	20	20	25	125	SN..1204	2309-0014	2309-1014	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSSNR/L2525M12	25	25	32	150	SN..1204	2309-0016	2309-1016	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSSNR/L3225P12	25	32	32	170	SN..1204	2309-0018	2309-1018	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSSNR/L2525M15	25	25	32	150	SN..1506	2309-0020	2309-1020	S1504B	NL-0822	CL-12	XNS-0829	S3/4
MSSNR/L3225P15	25	32	32	170	SN..1506	2309-0022	2309-1022	S1504B	NL-0822	CL-12	XNS-0829	S3/4
MSSNR/L3232P15	32	32	40	170	SN..1506	2309-0024	2309-1024	S1504B	NL-0822	CL-12	XNS-0829	S3/4

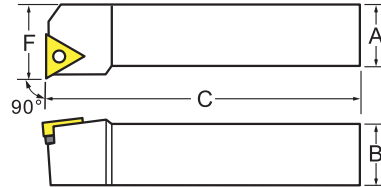
MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM PIN	CLAMP	CLAMP SCREW	HEXKEY
	A	B	F	C								
MSSNR/L12-4C	0.75	0.75	1.00	4.5	SN..43	2309-5008	2309-6008	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSSNR/L16-4D	1.00	1.00	1.25	6.0	SN..43	2309-5010	2309-6010	S1504B	NL-0617	CL-12	XNS-0829	S2.5/4
MSSNR/L16-5D	1.00	1.00	1.25	5.0	SN..54	2309-5012	2309-6012	S1504B	NL-0822	CL-12	XNS-0829	S3/4

Turning Tool Holders

MTFNR MTFNL



TNMG, TNMA



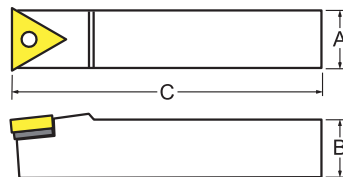
MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
MTFNR/L1616H16	16	16	20	100	TN..1604	2310-0008	2310-1008	T1603B	NL-0414	CL-6	XNS-0520	S2/2.5
MTFNR/L2020K16	20	20	25	125	TN..1604	2310-0010	2310-1010	T1603B	NL-0414	CL-6	XNS-0520	S2/2.5
MTFNR/L2525M16	25	25	32	150	TN..1604	2310-0012	2310-1012	T1603B	NL-0414	CL-6	XNS-0520	S2/2.5
MTFNR/L3225P16	25	32	32	170	TN..1604	2310-0014	2310-1014	T1603B	NL-0617	CL-6	XNS-0520	S2/2.5
MTFNR/L2525M22	25	25	32	150	TN..2204	2310-0016	2310-1016	T2203B	NL-0617	CL-12	XNS-0829	S2.5/4
MTFNR/L3225P22	25	32	32	170	TN..2204	2310-0018	2310-1018	T2203B	NL-0617	CL-12	XNS-0829	S2.5/4
MTFNR/L3232P22	32	32	40	170	TN..2204	2310-0020	2310-1020	T2203B	NL-0617	CL-12	XNS-0829	S2.5/4

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
MTFNR/L08-2A	0.5	0.5	.625	4.0	TN..22	2310-5008	2310-6008	-	M-ZX0410	CL-6	XNS-0520	S2/2.5
MTFNR/L10-2B	0.625	0.625	.75	4.5	TN..22	2310-5010	2310-6010	-	M-ZX0410	CL-6	XNS-0520	S2/2.5
MTFNR/L10-3B	0.625	0.625	.75	4.5	TN..33	2310-5012	2310-6012	T1603B	NL-0414	CL-6	XNS-0520	S2/2.5
MTFNR/L12-3C	0.75	0.75	.75	5.0	TN..33	2310-5014	2310-6014	T1603B	NL-0414	CL-6	XNS-0520	S2/2.5
MTFNR/L16-3D	1.00	1.00	1.25	6.0	TN..33	2310-5016	2310-6016	T1603B	NL-0414	CL-6	XNS-0520	S2/2.5
MTFNR/L16-4D	1.00	1.00	1.25	6.0	TN..43	2310-5018	2310-6018	T2203B	NL-0617	CL-12	XNS-0829	S2.5/4
MTFNR/L20-4E	1.25	1.25	1.5	7.0	TN..43	2310-5020	2310-6020	T2203B	NL-0617	CL-12	XNS-0829	S2.5/4
MTFNR/L20-5E	1.25	1.25	1.5	7.0	TN..54	2310-5022	2310-6022	T2704B	NL-0822	CL-12	XNS-0829	S3/4
MTFNR/L24-5F	1.50	1.50	2.0	8.0	TN..54	2310-5024	2310-6024	T2704B	NL-0822	CL-12	XNS-0829	S3/4

MTCNN



TNMG, TNMA

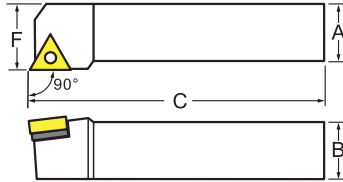


MODEL	DIMENSIONS				INSERT SIZE	ORDER #					
	A	B	F	C							
MTCNN08-3A	.5	.5	-	4.0	TN..32	2317-5008	T1603B	NL-0414	CL-6	XNS-0520	S2/2.5
MTCNN44-3D	.5	1.0	-	6.0	TN..32	2317-5010	T1603B	NL-0414	CL-6	XNS-0520	S2/2.5
MTCNN12-4C	.75	.75	-	5.0	TN..43	2317-5012	T2203B	NL-0617	CL-12	XNS-0829	S2.5/4
MTCNN64-4D	.75	1.0	-	6.0	TN..43	2317-5014	T2203B	NL-0617	CL-12	XNS-0829	S2.5/4
MTCNN66-4E	.75	1.5	-	7.0	TN..43	2317-5016	T2203B	NL-0617	CL-12	XNS-0829	S2.5/4

Turning Tool Holders

MTGNR MTGNL

TNMG, TNMA

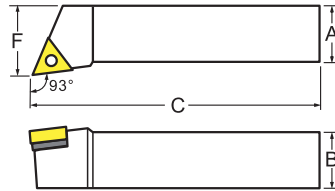


MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER#	 SHIM	 SHIM PIN	 CLAMP	 CLAMP SCREW	 HEX KEY
	A	B	F	C								
MTGNR/L1616H16	16	16	20	100	TN..1604	2311-0008	2311-1008	T1603B	NL-0414	CL-6	XNS-0520	S2/2.5
MTGNR/L2020K16	20	20	25	125	TN..1604	2311-0010	2311-1010	T1603B	NL-0414	CL-6	XNS-0520	S2/2.5
MTGNR/L2525M16	25	25	32	150	TN..1604	2311-0012	2311-1012	T1603B	NL-0414	CL-6	XNS-0829	S2/2.5
MTGNR/L3225P16	25	32	25	170	TN..1604	2311-0014	2311-1014	T1603B	NL-0414	CL-6	XNS-0829	S2/2.5
MTGNR/L2525M22	25	25	32	150	TN..2204	2311-0016	2311-1016	T2203B	NL-0617	CL-12	XNS-0829	S2.5/4
MTGNR/L3225P22	25	32	32	170	TN..2204	2311-0018	2311-1018	T2203B	NL-0617	CL-12	XNS-0829	S2.5/4
MTGNR/L3232P22	32	32	40	170	TN..2204	2311-0020	2311-1020	T2204B	NL-0617	CL-12	XNS-0829	S2.5/4

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER#	 SHIM	 SHIM PIN	 CLAMP	 CLAMP SCREW	 HEX KEY
	A	B	F	C								
MTGNR/L08-2A	0.5	0.5	.625	4.0	TN..22	2311-5008	2311-6008	—	M-2X0410	CL-6	XNS-0520	S2/2.5
MTGNR/L10-2B	0.625	0.625	.75	4.5	TN..22	2311-5010	2311-6010	—	M-2X0410	CL-6	XNS-0520	S2/2.5
MTGNR/L10-3A	0.625	0.625	.875	4.0	TN..33	2311-5012	2311-6012	T1603B	NL-0414	CL-6	XNS-0520	S2/2.5
MTGNR/L10-3B	0.625	0.625	.875	4.5	TN..33	2311-5014	2311-6014	T1603B	NL-0414	CL-6	XNS-0520	S2/2.5
MTGNR/L12-3C	0.75	0.75	1.0	5.0	TN..33	2311-5016	2311-6016	T1603B	NL-0414	CL-6	XNS-0520	S2/2.5
MTGNR/L16-3C	1.0	1.0	1.25	5.0	TN..33	2311-5020	2311-6020	T1603B	NL-0414	CL-6	XNS-0520	S2/2.5
MTGNR/L16-3D	1.0	1.0	1.25	6.0	TN..33	2311-5022	2311-6022	T1603B	NL-0414	CL-6	XNS-0520	S2/2.5
MTGNR/L16-4D	1.0	1.0	1.25	6.0	TN..43	2311-5024	2311-6024	T2203B	NL-0617	CL-12	XNS-0829	S2.5/4
MTGNR/L85-4E	1.0	1.25	1.25	7.0	TN..43	2311-5026	2311-6026	T2203B	NL-0617	CL-12	XNS-0829	S2.5/4
MTGNR/L86-4F	1.0	1.5	1.25	8.0	TN..43	2311-5028	2311-6028	T2203B	NL-0617	CL-12	XNS-0829	S2.5/4
MTGNR/L20-4E	1.25	1.25	1.5	7.0	TN..43	2311-5032	2311-6032	T2203B	NL-0617	CL-12	XNS-0829	S2.5/4
MTGNR/L20-5E	1.25	1.25	1.5	7.0	TN..54	2311-5034	2311-6034	T2704B	NL-0822	CL-12	XNS-0829	S3/4
MTGNR/L24-5F	1.5	1.5	2.0	8.0	TN..54	2311-5036	2311-6036	T2704B	NL-0822	CL-12	XNS-0829	S3/4

Turning Tool Holders

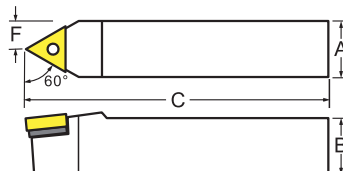
MTJNR MTJNL



MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
MTJNR/L1616H16	16	16	20	100	TN..1604	2312-0008	2312-1008	T1603B	NL-0414	CL-6	XNS-0520	S2/2.5
MTJNR/L2020K16	20	20	25	125	TN..1604	2312-0010	2312-1010	T1603B	NL-0414	CL-6	XNS-0520	S2/2.5
MTJNR/L2525M16	25	25	32	150	TN..1604	2312-0012	2312-1012	T1603B	NL-0414	CL-6	XNS-0520	S2/2.5
MTJNR/L3225P16	25	32	32	170	TN..1604	2312-0014	2312-1014	T1603B	NL-0617	CL-6	XNS-0520	S2/2.5
MTJNR/L2525M22	25	25	32	150	TN..2204	2312-0016	2312-1016	T2203B	NL-0617	CL-12	XNS-0829	S2.5/4
MTJNR/L3225P22	25	32	32	170	TN..2204	2312-0018	2312-1018	T2203B	NL-0617	CL-12	XNS-0829	S2.5/4
MTJNR/L3232P22	32	32	40	170	TN..2204	2312-0020	2312-1020	T2203B	NL-0617	CL-12	XNS-0829	S2.5/4

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
MTJNR/L12-3C	0.75	0.75	1.0	5.0	TN..32	2312-5008	2312-6008	T1603B	NL-0414	CL-6	XNS-0520	S2/2.5
MTJNR/L16-3D	1.0	1.0	1.25	6.0	TN..32	2312-5010	2312-6010	T1603B	NL-0414	CL-6	XNS-0520	S2/2.5
MTJNR/L16-4D	1.0	1.0	1.25	6.0	TN..43	2312-5012	2312-6012	T2203B	NL-0617	CL-12	XNS-0829	S2.5/4
MTJNR/L20-4E	1.25	1.25	1.5	7.0	TN..43	2312-5016	2312-6016	T2203B	NL-0617	CL-12	XNS-0829	S2.5/4
MTJNR/L20-5E	1.25	1.25	1.5	7.0	TN..54	2312-5018	2312-6018	T2704B	NL-0822	CL-12	XNS-0829	S3/4

MTENN



MODEL	DIMENSIONS				INSERT SIZE	ORDER #					
	A	B	F	C							
MTENN2020K16	20	20	10	125	TN..1604	2313-0012	T1603B	NL-0414	CL-6	XNS-0520	S2/2.5
MTENN2525M16	25	25	12.5	150	TN..1604	2313-0014	T1603B	NL-0414	CL-6	XNS-0520	S2/2.5
MTENN3225P16	25	32	12.5	170	TN..1604	2313-0016	T1603B	NL-0414	CL-6	XNS-0520	S2/2.5
MTENN2525M22	25	25	12.5	150	TN..2204	2313-0018	T2203B	NL-0617	CL-12	XNS-0829	S2.5/4
MTENN3225P22	25	32	12.5	170	TN..2204	2313-0020	T2203B	NL-0617	CL-12	XNS-0829	S2.5/4
MTENN3232P22	32	32	16	170	TN..2204	2313-0022	T2203B	NL-0617	CL-12	XNS-0829	S2.5/4

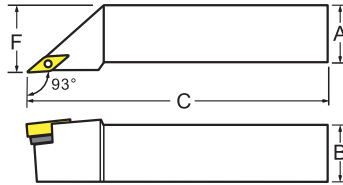
MODEL	DIMENSIONS				INSERT SIZE	ORDER #					
	A	B	F	C							
MTENN08-2A	0.5	0.5	.25	4.0	TN..22	2313-5012	—	M-ZX0410	CL-6	XNS-0520	S2/2.5
MTENN10-3B	0.625	0.625	.312	4.5	TN..32	2313-5014	T1603B	NL-0414	CL-6	XNS-0520	S2/2.5
MTENN12-3C	0.75	0.75	.375	5.0	TN..32	2313-5016	T1603B	NL-0414	CL-6	XNS-0520	S2/2.5
MTENN12-4C	0.75	0.75	.375	5.0	TN..43	2313-5018	T2203B	NL-0617	CL-12	XNS-0829	S2.5/4
MTENN16-4D	1.0	1.0	.5	6.0	TN..43	2313-5020	T2203B	NL-0617	CL-12	XNS-0829	S2.5/4
MTENN20-5E	1.25	1.25	.625	7.0	TN..54	2313-5022	T2704B	NL-0822	CL-12	XNS-0829	S3/4
MTENN24-5E	1.5	1.5	.75	7.0	TN..54	2313-5024	T2704B	NL-0822	CL-12	XNS-0829	S3/4

Turning Tool Holders

MVJNR MVJNL



VNMA, VNMG



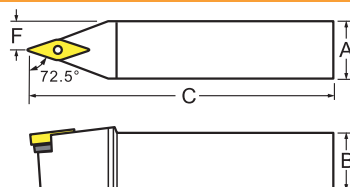
MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
MVJNR/L1616H16	16	16	20	100	VN..1604	2314-0008	2314-1008	V1603B	NL-0414	CL-30	XNS-0829	S2/4
MVJNR/L2020K16	20	20	25	125	VN..1604	2314-0010	2314-1010	V1603B	NL-0414	CL-30	XNS-0829	S2/4
MVJNR/L2525M16	25	25	32	150	VN..1604	2314-0012	2314-1012	V1603B	NL-0414	CL-30	XNS-0829	S2/4
MVJNR/L3225P16	25	32	32	170	VN..1604	2314-0014	2314-1014	V1603B	NL-0414	CL-30	XNS-0829	S2/4
MVJNR/L3232P16	32	32	40	170	VN..1604	2314-0016	2314-1016	V1603B	NL-0414	CL-30	XNS-0829	S2/4

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
MVJNR/L12-3C	.75	.75	1.0	5.0	TN..33	2314-5008	2314-6008	V1603B	NL-0414	CL-30	XNS-0829	S2/4
MVJNR/L16-3C	1.0	1.0	1.25	5.0	TN..33	2314-5012	2314-6012	V1603B	NL-0414	CL-30	XNS-0829	S2/4
MVJNR/L16-3D	1.0	1.0	1.25	6.0	TN..33	2314-5014	2314-6014	V1603B	NL-0414	CL-30	XNS-0829	S2/4
MVJNR/L20-3E	1.25	1.25	1.5	7.0	TN..33	2314-5018	2314-6018	V1603B	NL-0414	CL-30	XNS-0829	S2/4
MVJNR/L24-3F	1.5	1.5	2.0	8.0	TN..33	2314-5022	2314-6022	V1603B	NL-0414	CL-30	XNS-0829	S2/4
MVJNR/L12-4D	.75	.75	1.0	6.0	TN..43	2314-5010	2314-6010	V2203B	NL-0617	CL-36	XNS-0829	S2.5/4
MVJNR/L16-4D	1.0	1.0	1.25	6.0	TN..43	2314-5016	2314-6016	V2203B	NL-0617	CL-36	XNS-0829	S2.5/4
MVJNR/L20-4E	1.25	1.25	1.5	7.0	TN..43	2314-5020	2314-6020	V2203B	NL-0617	CL-36	XNS-0829	S2.5/4
MVJNR/L24-4E	1.5	1.5	2.0	7.0	TN..43	2314-5024	2314-6024	V2203B	NL-0617	CL-36	XNS-0829	S2.5/4
MVJNR/L85-4E	1.0	1.25	1.25	7.0	TN..43	2314-5026	2314-6026	V2203B	NL-0617	CL-36	XNS-0829	S2.5/4
MVJNR/L86-4F	1.0	1.5	1.25	8.0	TN..43	2314-5028	2314-6028	V2203B	NL-0617	CL-36	XNS-0829	S2.5/4

MVVNN



VNMA, VNMG



MODEL	DIMENSIONS				INSERT SIZE	ORDER #					
	A	B	F	C							
MVVNN2020K16	20	20	10	125	VN..1604	2315-0010	V1603B	NL-0414	CL-30	XNS-0829	S2/4
MVVNN2525M16	25	25	12.5	150	VN..1604	2315-0012	V1603B	NL-0414	CL-30	XNS-0829	S2/4
MVVNN3225P16	25	32	12.5	170	VN..1604	2315-0014	V1603B	NL-0617	CL-30	XNS-0829	S2/4
MVVNN3232P16	32	32	16	170	VN..1604	2315-0016	V1603B	NL-0617	CL-30	XNS-0829	S2/4

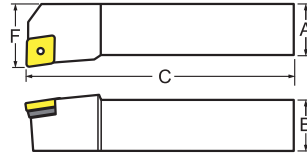
MODEL	DIMENSIONS				INSERT SIZE	ORDER #					
	A	B	F	C							
MVVNN12-3C	.75	.75	.375	5.0	VN..33	2315-0010	V1603B	NL-0414	CL-30	XNS-0829	S2/4
MVVNN16-3C	1.0	1.0	.5	5.0	VN..33	2315-0014	V1603B	NL-0414	CL-30	XNS-0829	S2/4
MVVNN16-3D	1.0	1.0	.5	6.0	VN..33	2315-0016	V1603B	NL-0414	CL-30	XNS-0829	S2/4
MVVNN20-3E	1.25	1.25	.625	7.0	VN..33	2315-0020	V1603B	NL-0414	CL-30	XNS-0829	S2/4
MVVNN12-4D	.75	.75	.375	6.0	VN..43	2315-0012	V2203B	NL-0617	CL-36	XNS-0829	S2.5/4
MVVNN16-4D	1.0	1.0	.5	6.0	VN..43	2315-0018	V2203B	NL-0617	CL-36	XNS-0829	S2.5/4
MVVNN20-4E	1.25	1.25	.625	7.0	VN..43	2315-0020	V2203B	NL-0617	CL-36	XNS-0829	S2.5/4

Turning Tool Holders

MCGNR MCGNL



CNMA, CNMG, CNMM



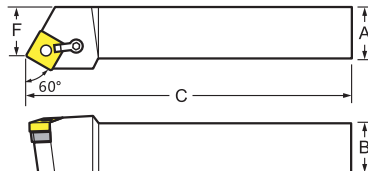
MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
MCGNR/L2020K12	20	20	25	125	CN..1204	2320-0012	2320-1012	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCGNR/L2525M12	25	25	32	150	CN..1204	2320-0014	2320-1014	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCGNR/L2525M16	25	25	32	150	CN..1604	2320-0016	2320-1016	V1603B	NL-0822	CL-12	XNS-0829	S3/4
MCGNR/L3225P16	25	32	32	170	CN..1604	2320-0018	2320-1018	V1603B	NL-0822	CL-12	XNS-0829	S3/4
MCGNR/L3232P16	32	32	40	170	CN..1604	2320-0020	2320-1020	V1603B	NL-0822	CL-12	XNS-0829	S3/4
MCGNR/L3232P19	32	32	40	170	CN..1906	2320-0022	2320-1022	V1904B	NL-0823	CL-30	XNS-0829	S4
MCGNR/L4040R19	40	40	50	200	CN..1906	2320-0024	2320-1024	V1904B	NL-0823	CL-30	XNS-0829	S4

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
MCGNR/L12-4C	.75	.75	1.0	5.0	CN..432	2320-5012	2320-6012	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCGNR/L16-4C	1.0	1.0	1.25	5.0	CN..432	2320-5014	2320-6014	V1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCGNR/L16-4D	1.0	1.0	1.25	6.0	CN..432	2320-5016	2320-6016	V1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCGNR/L85-4E	1.0	1.25	1.25	7.0	CN..432	2320-5018	2320-6018	V1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCGNR/L20-4E	1.25	1.25	1.5	7.0	CN..432	2320-5020	2320-6020	V1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCGNR/L16-5D	1.0	1.0	1.25	6.0	CN..543	2320-5022	2320-6022	V1603B	NL-0822	CL-12	XNS-0829	S3/4
MCGNR/L20-5E	1.25	1.25	1.5	7.0	CN..543	2320-5024	2320-6024	V1603B	NL-0822	CL-12	XNS-0829	S3/4

MCTNR MCTNL



CNMA, CNMG, CNMM



MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
MCTNR/L2020K12	20	20	17	125	CN..1204	2321-0012	2321-1012	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCTNR/L2525M12	25	25	22	150	CN..1204	2321-0014	2321-1014	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCTNR/L2525M16	25	25	22	150	CN..1604	2321-0016	2321-1016	C1603B	NL-0822	CL-12	XNS-0829	S3/4
MCTNR/L3225P16	32	25	22	170	CN..1604	2321-0018	2321-1018	C1603B	NL-0822	CL-12	XNS-0829	S3/4
MCTNR/L3232P16	32	32	27	150	CN..1604	2321-0020	2321-1020	C1603B	NL-0822	CL-12	XNS-0829	S3/4
MCTNR/L3232P19	32	32	27	170	CN..1904	2321-0022	2321-1022	C1904B	NL-0823	CL-30	XNS-0829	S4
MCTNR/L4040R19	40	40	35	200	CN..1904	2321-0024	2321-1024	C1904B	NL-0823	CL-30	XNS-0829	S4

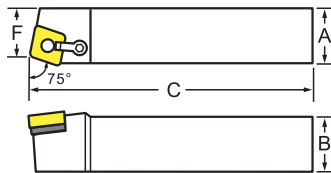
MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
MCTNR/L12-4C	.75	.75	.88	5.0	CN..43	2321-5012	2321-6012	V1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCTNR/L16-4D	1.0	1.0	1.13	6.0	CN..43	2321-5014	2321-6014	V1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCTNR/L20-5E	1.0	1.0	1.31	7.0	CN..53	2321-5016	2321-6016	V1604B	NL-0822	CL-12	XNS-0829	S3/4

Turning Tool Holders

MCBNR MCBNL



CNMG CNMM CNMA



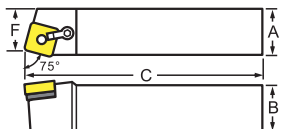
MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM PIN	CLAMP	CLAMP SCREW	HEXKEY
	A	B	F	C								
MCBNR/L2020K12	20	20	17	125	CN..1204	2323-0010	2323-1010	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCBNR/L2525M12	25	25	22	150	CN..1204	2323-0012	2323-1012	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCBNR/L2525M16	25	25	22	150	CN..1606	2323-0014	2323-1014	C1604B	NL-0822	CL-12	XNS-0829	S3/4
MCBNR/L3225P16	25	25	22	170	CN..1606	2323-0016	2323-1016	C1604B	NL-0822	CL-12	XNS-0829	S3/4
MCBNR/L3232P16	25	32	27	170	CN..1606	2323-0018	2323-1018	C1604B	NL-0822	CL-12	XNS-0829	S3/4
MCBNR/L3232P19	32	40	27	170	CN..1906	2323-0020	2323-1020	C1904B	NL-0823	CL-30	XNS-0829	S4
MCBNR/L4040R19	40	40	35	200	CN..1906	2323-0022	2323-1022	C1904B	NL-0823	CL-30	XNS-0829	S4

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM PIN	CLAMP	CLAMP SCREW	HEXKEY
	A	B	F	C								
MCBNR/L12-4C	.75	.75	.63	5.0	CN..43	2323-5010	2323-6010	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCBNR/L16-4C	1.0	1.0	.88	5.0	CN..43	2323-5012	2323-6012	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCBNR/L16-4D	1.0	1.0	.88	6.0	CN..43	2323-5014	2323-6014	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCBNR/L85-4E	1.0	1.25	.88	7.0	CN..43	2323-5016	2323-6016	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCBNR/L20-4D	1.25	1.25	1.05	6.0	CN..43	2323-5018	2323-6018	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCBNR/L20-4E	1.0	1.0	1.05	7.0	CN..43	2323-5020	2323-6020	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MCBNR/L20-5E	1.25	1.25	1.05	7.0	CN..54	2323-5022	2323-6022	C1604B	NL-0822	CL-30	XNS-0829	S3/4
MCBNR/L24-6F	1.5	1.5	1.3	8.0	CN..64	2323-5024	2323-6024	C1904B	NL-0823	CL-30	XNS-0829	S4

MSBNR MSBNL



CNMG CNMM CNMA



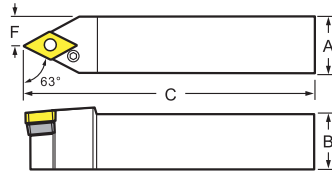
MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM PIN	CLAMP	CLAMP SCREW	HEXKEY
	A	B	F	C								
MSBNR/L2020K12	20	20	17	125	CN..1204	2325-0010	2325-1010	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSBNR/L2520M12	20	25	22	150	CN..1204	2325-0012	2325-1012	C1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSBNR/L2525M12	25	25	22	150	CN..1204	2325-0014	2325-1014	C1203B	NL-0822	CL-12	XNS-0829	S2.5/4
MSBNR/L2525M15	25	25	22	150	CN..1506	2325-0016	2325-1016	C1504B	NL-0822	CL-12	XNS-0829	S3/4
MSBNR/L3225P15	25	32	22	170	CN..1506	2325-0018	2325-1018	C1504B	NL-0822	CL-12	XNS-0829	S3/4
MSBNR/L3232P15	32	32	27	170	CN..1506	2325-0020	2325-1020	C1504B	NL-0822	CL-12	XNS-0829	S3/4
MSBNR/L3232P19	32	32	27	170	CN..1906	2325-0022	2325-1022	C1904B	NL-0823	CL-30	XNS-0829	S4
MSBNR/L4040R19	40	40	35	200	CN..1906	2325-0024	2325-1024	C1904B	NL-0823	CL-30	XNS-0829	S4

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM PIN	CLAMP	CLAMP SCREW	HEXKEY
	A	B	F	C								
MSBNR/L12-4C	.75	.75	.63	5.0	SN..43	2325-5010	2325-6010	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSBNR/L16-4C	1.0	1.0	.88	5.0	SN..43	2325-5012	2325-6012	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSBNR/L16-4D	1.0	1.0	.88	6.0	SN..53	2325-5014	2325-6014	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSBNR/L85-4E	1.0	1.25	.88	7.0	SN..43	2325-5016	2325-6016	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSBNR/L20-4D	1.25	1.25	1.05	6.0	SN..43	2325-5018	2325-6018	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSBNR/L20-4E	1.25	1.25	1.05	7.0	SN..43	2325-5020	2325-6020	S1203B	NL-0617	CL-12	XNS-0829	S2.5/4
MSBNR/L20-5E	1.25	1.25	1.05	7.0	SN..54	2325-5022	2325-6022	S1504B	NL-0822	CL-30	XNS-0829	S3/4
MSBNR/L24-6F	1.5	1.5	1.3	8.0	SN..64	2325-5024	2325-6024	S1904B	NL-0823	CL-30	XNS-0829	S4

Turning Tool Holders

PDNNR PDNNL

DNMA DNMG

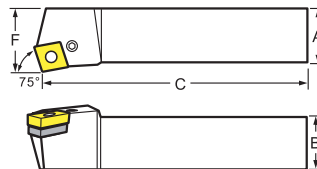


MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM SCREW	CLAMP	CLAMP SCREW	HEXKEY
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PDNNR/L2020M15	20	20	12.5	150	DN..1506	2368-0010	2368-1010	D15A	GH0607	G0517-W	GL0826	S4
PDNNR/L3225P15	25	32	12.5	170	DN..1506	2368-0012	2368-1012	D15A	GH0607	G0517-W	GL0826	S4
PDNNR/L3232P15	32	32	16	170	DN..1506	2368-0014	2368-1014	D15A	GH0607	G0517-W	GL0826	S4
PDNNR/L4025R15	25	40	12.5	200	DN..1506	2368-0016	2368-1016	D15A	GH0607	G0517-W	GL0826	S4
PDNNR/L4040R15	40	40	12.5	200	DN..1506	2368-0018	2368-1018	D15A	GH0607	G0517-W	GL0826	S4

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM SCREW	CLAMP	CLAMP SCREW	HEXKEY
	A	B	F	C								
PDNNR/L16-4D	1.0	1.0	1/2	6.0	DN..43	2368-5010	2368-6010	D15A	GH0607	G0517-W	GL0826	S4
PDNNR/L85-4E	1.0	1.25	1/2	7.0	DN..43	2368-5012	2368-6012	D15A	GH0607	G0517-W	GL0826	S4
PDNNR/L20-4E	1.25	1.25	5/8	7.0	DN..43	2368-5014	2368-6014	D15A	GH0607	G0517-W	GL0826	S4
PDNNR/L86-4F	1.0	1.5	1/2	8.0	DN..43	2368-5016	2368-6016	D15A	GH0607	G0517-W	GL0826	S4

PCKNR PCKNL

CNMA CNMG CNMM

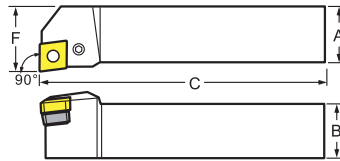


MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM SCREW	CLAMP	CLAMP SCREW	HEXKEY
	A	B	F	C								
PCKNR/L 2020K12	20	20	25	125	CN..1204	2366-0012	2366-1012	C12A	GH0607	G0514-W	GL0822	S4
PCKNR/L2525M12	25	25	32	150	CN..1204	2366-0014	2366-1014	C12A	GH0607	G0514-W	GL0822	S4
PCKNR/L2525M16	25	25	32	150	CN..1606	2366-0016	2366-1016	C16A	GH0709	G0616-W	GL0826	S4
PCKNR/L3225P16	25	32	32	170	CN..1606	2366-0018	2366-1018	C16A	GH0709	G0616-W	GL0826	S4
PCKNR/L 3232P19	32	32	40	170	CN..1906	2366-0020	2366-1020	C19A	GH0811	G0719-W	GL1031	S5

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM SCREW	CLAMP	CLAMP SCREW	HEXKEY
	A	B	F	C								
PCKNR/L12-4C	.75	.75	1.0	5.0	CN..43	2366-5012	2352-6012	C12A	GH0607	G0514-W	GL0822	S4
PCKNR/L16-4D	1.0	1.0	1.25	6.0	CN..43	2366-5014	2352-6014	C12A	GH0607	G0514-W	GL0822	S4
PCKNR/L16-5D	1.0	1.0	1.25	6.0	CN..54	2366-5016	2352-6016	C16A	GH0709	G0616-W	GL0826	S4
PCKNR/L85-5E	1.0	1.25	1.25	7.0	CN..54	2366-5018	2352-6018	C16A	GH0709	G0616-W	GL0826	S4
PCKNR/L20-5E	1.25	1.25	1.5	7.0	CN..54	2366-5020	2352-6020	C16A	GH0709	G0616-W	GL0826	S4

Turning Tool Holders

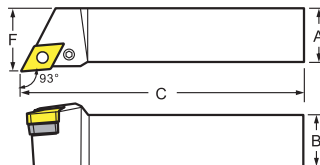
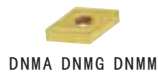
PCFNR PCFNL



MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
PCFNR/L2020K12	20	20	25	125	CN..1204	2353-0012	2351-1012	C12A	GH0607	G0514-W	GL0822	S4
PCFNR/L2525M12	25	25	32	150	CN..1204	2353-0013	2351-1013	C12A	GH0607	G0514-W	GL0822	S4
PCFNR/L2525M16	25	25	32	150	CN..1606	2353-0014	2351-1014	C16A	GH0709	G0616-W	GL0822	S4
PCFNR/L3225P16	25	32	32	170	CN..1606	2353-0016	2351-1016	C16A	GH0709	G0616-W	GL0822	S4
PCFNR/L3232P19	32	32	40	170	CN..1906	2353-0018	2351-1018	C19A	GH0811	G0719-W	GL1031	S5
PCFNR/L4040R19	40	40	50	200	CN..1906	2353-0020	2351-1020	C19A	GH0811	G0719-W	GL1031	S5

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
PCFNR/L12-4C	.75	.75	1.0	5.0	CN..43	2353-5012	2353-6012	C12A	GH0607	G0514-W	GL0822	S4
PCFNR/L16-4D	1.0	1.0	1.25	6.0	CN..43	2353-5013	2353-6013	C12A	GH0607	G0514-W	GL0822	S4
PCFNR/L16-5D	1.0	1.0	1.25	6.0	CN..54	2353-5014	2353-6014	C12A	GH0607	G0514-W	GL0822	S4
PCFNR/L85-5E	1.0	1.25	1.5	7.0	CN..54	2353-5016	2353-6016	C16A	GH0709	G0616-W	GL0822	S4
PCFNR/L20-5E	1.25	1.25	1.5	7.0	CN..54	2353-5018	2353-6018	C16A	GH0709	G0616-W	GL0822	S4
PCFNR/L24-6F	1.5	1.5	2.0	8.0	CN..64	2353-5020	2353-6020	C19A	GH0811	G0710-W	GL1031	S5

PDJNR PDJNL



MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
PDJNR/L2020K11	20	20	25	125	DN..1104	2354-0014	2354-1014	D11A	GH0405	G0315-WGL0617A		S3
PDJNR/L2525M11	25	25	32	150	DN..1104	2354-0016	2354-1016	D11A	GH0405	G0315-WGL0617A		S3
PDJNR/L2020K15	20	20	25	125	DN..1506	2354-0018	2354-1018	D15A	GH0607	G0517-W	GL0826	S4
PDJNR/L2525M15	25	25	32	150	DN..1506	2354-0020	2354-1020	D15A	GH0607	G0517-W	GL0826	S4
PDJNR/L3225P15	25	32	32	170	DN..1506	2354-0021	2354-1021	D15A	GH0607	G0517-W	GL0826	S4
PDJNR/L3232P15	32	32	40	170	DN..1506	2354-0022	2354-1022	D15A	GH0607	G0517-W	GL0826	S4
PDJNR/L4025R15	40	25	25	200	DN..1506	2354-0024	2354-1024	D15A	GH0607	G0517-W	GL0826	S4

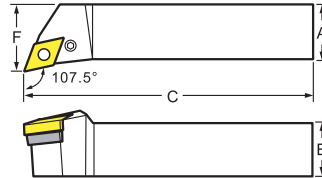
MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
PDJNR/L12-4C	.75	.75	1.0	5.0	DN..44	2354-5010	2354-6010	D15A	GH0607	G0517-W	GL0826	S4
PDJNR/L16-4D	1.0	1.0	1.25	6.0	DN..44	2354-5012	2354-6012	D15A	GH0607	G0517-W	GL0826	S4
PDJNR/L85-4E	1.0	1.25	1.25	7.0	DN..44	2354-5014	2354-6014	D15A	GH0607	G0517-W	GL0826	S4
PDJNR/L20-4E	1.25	1.25	1.5	7.0	DN..44	2354-5016	2354-6016	D15A	GH0607	G0517-W	GL0826	S4
PDJNR/L86-4F	1.00	1.5	1.25	8.0	DN..44	2354-5018	2354-6018	D15A	GH0607	G0517-W	GL0826	S4

Turning Tool Holders

PDQNR PDQNL



DNMA DNMG DNMM



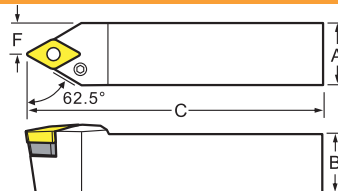
MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
PDQNR/L2525M15	25	25	32	150	DN..1506	2355-0012	2355-1012	D15A	GH0607	G0517-W	GL0826	S4
PDQNR/L3225P15	25	32	32	170	DN..1506	2355-0014	2355-1014	D15A	GH0607	G0517-W	GL0826	S4
PDQNR/L3232P15	32	32	40	170	DN..1506	2355-0016	2355-1016	D15A	GH0607	G0517-W	GL0826	S4
PDQNR/L4025R15	25	40	32	200	DN..1506	2355-0018	2355-1018	D15A	GH0607	G0517-W	GL0826	S4
PDQNR/L4040R15	40	40	32	200	DN..1506	2355-0020	2355-1020	D15A	GH0607	G0517-W	GL0826	S4

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
PDQNR/L16-4D	1.0	1.0	1.25	7.0	DN..44	2355-5012	2355-6012	D15A	GH0607	G0517-W	GL0826	S4
PDQNR/L85-4E	1.0	1.25	1.25	7.0	DN..44	2355-5014	2355-6014	D15A	GH0607	G0517-W	GL0826	S4
PDQNR/L20-4E	1.25	1.5	1.5	7.0	DN..44	2355-5016	2355-6016	D15A	GH0607	G0517-W	GL0826	S4
PDQNR/L86-4F	1.0	1.5	1.25	8.0	DN..44	2355-5018	2355-6018	D15A	GH0607	G0517-W	GL0826	S4

PDPNN



DNMA DNMG DNMM

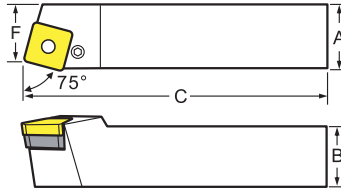


MODEL	DIMENSIONS				INSERT SIZE	ORDER #					
	A	B	F	C							
PDPNN 2525M15	25	25	12.5	150	DN..1506	2357-0012	D15A	GH0607	G0517-W	GL0826	S4
PDPNN 3225P15	25	32	12.5	170	DN..1506	2357-0014	D15A	GH0607	G0517-W	GL0826	S4
PDPNN 3232P15	32	32	16	170	DN..1506	2357-0016	D15A	GH0607	G0517-W	GL0826	S4
PDPNN 4025R15	25	40	20	200	DN..1506	2357-0018	D15A	GH0607	G0517-W	GL0826	S4
PDPNN 4040R15	40	40	20	200	DN..1506	2357-0020	D15A	GH0607	G0517-W	GL0826	S4

MODEL	DIMENSIONS				INSERT SIZE	ORDER #					
	A	B	F	C							
PDPNN 12-4C	.75	.75	3/8	5.0	DN..44	2357-5010	D15A	GH0607	G0517-W	GL0826	S4
PDPNN 16-4D	1.0	1.0	1/2	6.0	DN..44	2357-5012	D15A	GH0607	G0517-W	GL0826	S4
PDPNN 85-4E	1.0	1.25	1/2	7.0	DN..44	2357-5014	D15A	GH0607	G0517-W	GL0826	S4
PDPNN 20-4E	1.25	1.25	5/8	7.0	DN..44	2357-5016	D15A	GH0607	G0517-W	GL0826	S4
PDPNN 86-4F	1.00	1.5	1/2	8.0	DN..44	2357-5018	D15A	GH0607	G0517-W	GL0826	S4

Turning Tool Holders

PSBNR PSBNL

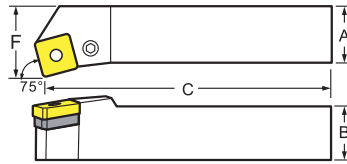


MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	 SHIM	 SHIM SCREW	 CLAMP	 CLAMP SCREW	 HEXKEY
	A	B	F	C								
PSBNR/L1616H09	16	16	13	100	SN..0903	2358-0012	2358-1012	S09A	GH0405	G0312-WGL0617A	S3	
PSBN R/L2020 K09	20	20	17	125	SN..0903	2358-0014	2358-1014	S09A	GH0405	G0312-WGL0617A	S3	
PSB NR/L2020 K12	20	20	17	125	SN..1204	2358-0016	2358-1016	S12A	GH0607	G0514-W GL0822	S4	
PSBNR/L2525M 12	25	25	22	150	SN..1204	2358-0018	2358-1018	S12A	GH0607	G0514-W GL0822	S4	
PSBN R/L3225P12	25	32	22	170	SN..1204	2358-0020	2358-1020	S12A	GH0607	G0514-W GL0822	S4	
PSBN R/L3232P12	32	32	27	170	SN..1204	2358-0022	2358-1022	S12A	GH0607	G0514-W GL0822	S4	
PSBNR/L2525M 15	25	25	22	150	SN..1506	2358-0024	2358-1024	S15A	GH0709	G0616-W GL0826	S4	
PSBNR/L 3232P15	32	32	27	170	SN..1506	2358-0026	2358-1026	S15A	GH0607	G0616-W GL0826	S4	
PSBNR /L3232P19	32	32	27	170	SN..1906	2358-0028	2358-1028	S19A	GH0811	G0719-W GL1031	S5	
PSBN R/L4040R19	40	40	32	200	SN..1906	2358-0030	2358-1030	S19A	GH0811	G0719-W GL1031	S5	

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	 SHIM	 SHIM SCREW	 CLAMP	 CLAMP SCREW	 HEXKEY
	A	B	F	C								
PSBNR/L12-4C	.75	1.0	.63	5.0	SN..43	2358-5012	2355-6012	S12A	GH0607	G0514-W GL0822	S4	
PSBNR/L64-4D	.75	1.0	.63	6.0	SN..43	2358-5014	2355-6014	S12A	GH0607	G0514-W GL0822	S4	
PSBNR/L16-4D	1.0	1.0	.88	6.0	SN..43	2358-5015	2355-6015	S12A	GH0607	G0514-W GL0822	S4	
PSBNR/L16-5D	1.0	1.0	.88	6.0	SN..54	2358-5016	2355-6016	S15A	GH0709	G0616-W GL0826	S4	
PSBNR/L85-5E	1.0	1.25	.88	7.0	SN..54	2358-5018	2355-6018	S15A	GH0709	G0616-W GL0826	S4	
PSBNR/L20-5E	1.25	1.25	1.05	7.0	SN..54	2358-5019	2355-6019	S15A	GH0709	G0616-W GL0826	S4	
PSBNR/L20-6E	1.25	1.25	1.05	7.0	SN..64	2358-5020	2355-6020	S19A	GH0811	G0719-W GL1031	S5	
PSBNR/L24-6F	1.5	1.5	1.3	8.0	SN..64	2358-5022	2355-6022	S19A	GH0811	G0719-W GL1031	S5	

Turning Tool Holders

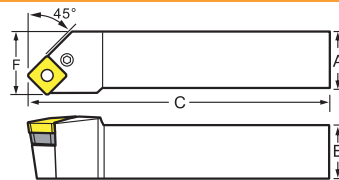
PSKNR PSKNL



MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
PSKNR/L2020K12	20	20	25	125	SN..1204	2359-0016	2359-1016	S12A	GH0607	G0514-W	GL0822	S4
PSKNR/L2525M12	25	25	32	150	SN..1204	2359-0018	2359-1018	S12A	GH0607	G0514-W	GL0822	S4
PSKNR/L3232P12	32	32	40	170	SN..1204	2359-0020	2359-1020	S12A	GH0607	G0514-W	GL0822	S4
PSKNR/L2525M15	25	25	32	150	SN..1506	2359-0022	2359-1022	S15A	GH0709	G0616-W	GL0826	S4
PSKNR/L3232P15	32	32	40	170	SN..1506	2359-0024	2359-1024	S15A	GH0709	G0616-W	GL0826	S4
PSKNR/L3232P19	32	32	40	170	SN..1906	2359-0026	2359-1026	S19A	GH0811	G0719-W	GL1031	S5
PSKNR/L4040R19	40	40	50	200	SN..1906	2359-0028	2359-1028	S19A	GH0811	G0719-W	GL1031	S5

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
PSKNR/L12-4C	.75	.75	1.0	5.0	SN..43	2359-5012	2359-6012	S12A	GH0607	G0514-W	GL0822	S4
PSKNR/L16-4D	1.0	1.0	1.25	6.0	SN..43	2359-5013	2359-6013	S12A	GH0607	G0514-W	GL0822	S4
PSKNR/L16-5D	1.0	1.0	1.25	6.0	SN..54	2359-5014	2359-6014	S15A	GH0709	G0616-W	GL0826	S4
PSKNR/L85-5E	1.0	1.25	1.25	7.0	SN..54	2359-5016	2359-6016	S15A	GH0709	G0616-W	GL0826	S4
PSKNR/L20-6E	1.25	1.25	1.5	7.0	SN..64	2359-5018	2359-6018	S19A	GH0811	G0517-W	GL1031	S5
PSKNR/L24-6F	1.5	1.5	2.0	8.0	SN..64	2359-5020	2359-6020	S19A	GH0811	G0517-W	GL1031	S5

PSSNR PSSNL

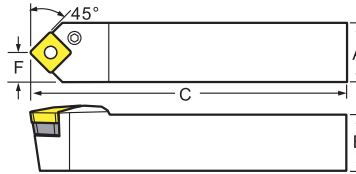


MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
PSSNR/ L2020K12	20	20	25	125	SN..1204	2360-0014	2360-1014	S12A	GH0607	G0514-W	GL0822	S4
PSSNR/L2020 M12	20	20	25	150	SN..1204	2360-0015	2360-1015	S12A	GH0607	G0514-W	GL0822	S4
PSSNR/L2525 M12	25	25	32	150	SN..1204	2360-0016	2360-1016	S12A	GH0607	G0514-W	GL0822	S4
PSSNR/ L3232P12	32	32	40	170	SN..1204	2360-0018	2360-1018	S12A	GH0607	G0514-W	GL0822	S4
PSSNR/L2525M15	25	25	32	150	SN..1506	2360-0020	2360-1020	S15A	GH0709	G0616-W	GL0826	S4
PSSNR/ L3225P16	25	32	32	170	SN..1506	2360-0028	2360-1028	S15A	GH0709	G0616-W	GL0826	S4
PSSNR/ L3232P15	32	32	40	170	SN..1506	2360-0022	2360-1022	S15A	GH0607	G0616-W	GL0826	S4
PSSNR /L3232P19	32	32	40	170	SN..1906	2360-0024	2360-1024	S19A	GH0811	G0719-W	GL1031	S5
PSSNR/ L4040R19	40	40	50	200	SN..1906	2360-0026	2360-1026	S19A	GH0811	G0719-W	GL1031	S5

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
PSSNR/L12-4C	.75	1.0	1.0	5.0	SN..43	2360-5012	2360-6012	S12A	GH0607	G0514-W	GL0822	S4
PSSNR/L64-4D	.75	.75	1.0	6.0	SN..43	2360-5014	2360-6014	S12A	GH0607	G0514-W	GL0822	S4
PSSNR/L16-4D	1.0	1.0	1.25	6.0	SN..43	2360-5015	2360-6015	S12A	GH0607	G0514-W	GL0822	S4
PSSNR/L16-5D	1.0	1.0	1.25	6.0	SN..54	2360-5016	2360-6016	S15A	GH0709	G0616-W	GL0826	S4
PSSNR/L85-5E	1.0	1.25	1.25	7.0	SN..54	2360-5018	2360-6018	S15A	GH0709	G0616-W	GL0826	S4
PSSNR/L20-5E	1.25	1.25	1.5	7.0	SN..54	2360-5019	2360-6019	S15A	GH0709	G0616-W	GL0826	S4
PSSNR/L20-6E	1.25	1.25	1.5	7.0	SN..64	2360-5020	2360-6020	S19A	GH0811	G0719-W	GL1031	S5
PSSNR/L24-6F	1.5	1.5	2.0	8.0	SN..64	2360-5022	2360-6022	S19A	GH0811	G0719-W	GL1031	S5

Turning Tool Holders

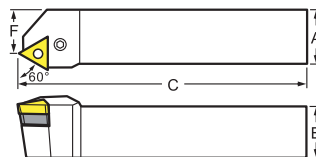
PSDNN



MODEL	DIMENSIONS				INSERT SIZE	ORDER #					
	A	B	F	C							
PSDNN 1616H09	16	16	8	100	SN..0903	2361-0010	S09A	GH0405	G0312-W	GL0617A	S3
PSDNN 2020K12	20	20	10	125	SN..1204	2361-0012	S12A	GH0607	G0514-W	GL0822	S4
PSDNN 2525M 12	25	25	12.5	150	SN..1204	2361-0014	S12A	GH0607	G0514-W	GL0822	S4
PSDNN 3232P12	32	32	16	170	SN..1204	2361-0016	S12A	GH0607	G0514-W	GL0822	S4
PSDNN 2525M 15	25	25	12.5	150	SN..1506	2361-0018	S15A	GH0709	G0616-W	GL0826	S4
PSDNN 3232P15	32	32	16	170	SN..1506	2361-0020	S15A	GH0709	G0616-W	GL0826	S4
PSDNN 3232P19	32	32	16	170	SN..1906	2361-0022	S19A	GH0811	G0719-W	GL1031	S5
PSDNN 4040R19	40	40	20	200	SN..1906	2361-0024	S19A	GH0811	G0719-W	GL1031	S5

MODEL	DIMENSIONS				INSERT SIZE	ORDER #					
	A	B	F	C							
PSDNN 12-4C	.75	.75	1.0	5.0	SN..43	2361-5012	S12A	GH0607	G0514-W	GL0822	S4
PSDNN 16-4D	1.0	1.0	1.25	6.0	SN..43	2361-5013	S12A	GH0607	G0514-W	GL0822	S4
PSDNN 16-5D	1.0	1.0	1.25	6.0	SN..54	2361-5014	S15A	GH0709	G0616-W	GL0826	S5
PSDNN 85-5E	1.0	1.25	1.25	7.0	SN..54	2361-5016	S15A	GH0709	G0616-W	GL0826	S5
PSDNN 20-6E	1.25	1.25	1.5	7.0	SN..64	2361-5018	S19A	GH0811	G0517-W	GL1031	S5
PSDNN 24-6F	1.5	1.5	2.0	8.0	SN..64	2361-5020	S19A	GH0811	G0517-W	GL1031	S5

PTTNR PTTNL

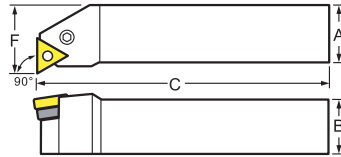


MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
PTTNR/L2020K 16	20	20	17	125	TN..1604	2362-0014	2362-1014	T16A	GH0405	G0310-W	GL0620	S3
PTTNR/L2520M 16	20	25	17	150	TN..1604	2362-0022	2362-1022	T16A	GH0405	G0310-W	GL0620	S3
PTTNR/L2525M 16	25	25	22	150	TN..1604	2362-0024	2362-1024	T16A	GH0405	G0310-W	GL0620	S3
PTTNR/L2525M 22	25	25	22	150	TN..2204	2362-0016	2362-1016	T22A	GH0607	G0514-W	GL0822	S4
PTTNR/L3225P 22	25	32	22	170	TN..2204	2362-0018	2362-1018	T22A	GH0607	G0514-W	GL0822	S4
PTTNR/L3232P 22	32	32	27	170	TN..2204	2362-0020	2362-1020	T22A	GH0607	G0514-W	GL0822	S4

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
PTTNR/L12-3C	.75	.75	.63	5.0	TN..33	2362-5012	2362-6012	T16A	GH0405	G0310-W	GL0620	S3
PTTNR/L64-3D	.75	1.0	.63	6.0	TN..33	2362-5014	2362-6014	T16A	GH0405	G0310-W	GL0620	S3
PTTNR/L16-3D	1.0	1.0	.88	6.0	TN..33	2362-5013	2362-6013	T16A	GH0405	G0310-W	GL0620	S3
PTTNR/L16-4D	1.0	1.0	.88	6.0	TN..43	2362-5016	2362-6016	T22A	GH0607	G0514-W	GL0822	S4
PTTNR/L85-4E	1.0	1.25	.88	7.0	TN..43	2362-5018	2362-6018	T22A	GH0607	G0514-W	GL0822	S4

Turning Tool Holders

PTFNR PTFNL

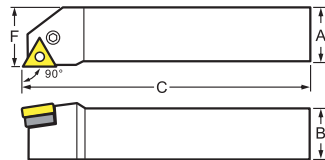


MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
PTFNR/L2020K16	20	20	25	125	TN..1604	2363-0014	2363-1014	T16A	GH0405	G0310-W	GL0620	S3
PTFNR/L2525M16	25	25	32	150	TN..1604	2363-0016	2363-1016	T16A	GH0405	G0310-W	GL0620	S3
PTFNR/L3225M16	25	32	40	150	TN..1604	2363-0019	2363-1019	T16A	GH0405	G0310-W	GL0620	S3
PTFNR/L2525M22	25	25	32	150	TN..2204	2363-0018	2363-1018	T22A	GH0607	G0514-W	GL0822	S4
PTFNR/L3232P22	32	32	40	170	TN..2204	2363-0020	2363-1020	T22A	GH0607	G0514-W	GL0822	S4

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
PTFNR/L12-3C	.75	.75	1.0	5.0	TN..33	2363-5012	2363-6012	T16A	GH0405	G0310-W	GL0620	S3
PTFNR/L16-3D	1.0	1.0	1.25	6.0	TN..33	2363-5013	2363-6013	T16A	GH0405	G0310-W	GL0620	S3
PTFNR/L16-4D	1.0	1.0	1.25	6.0	TN..43	2363-5014	2363-6014	T22A	GH0607	G0514-W	GL0822	S4
PTFNR/L85-4E	1.0	1.25	1.25	7.0	TN..43	2363-5016	2363-6016	T22A	GH0607	G0514-W	GL0822	S4
PTFNR/L20-4E	1.25	1.25	1.5	7.0	TN..43	2363-5017	2363-6017	T22A	GH0607	G0514-W	GL0822	S4

PTGNR PTGNL

TNMA TNMG TNMM

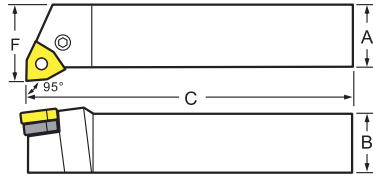


MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
PTGNR/L16 16H16	16	16	20	100	TN..1604	2364-0018	2364-1018	T16A	GH0405	G0310-W	GL0620	S3
PTGNR/L2020K16	20	20	25	125	TN..1604	2364-0020	2364-1020	T16A	GH0405	G0310-W	GL0620	S3
PTGNR/L2 520M16	20	25	25	150	TN..1604	2364-0021	2364-1021	T16A	GH0405	G0310-W	GL0620	S3
PTGNR/L2 525M16	25	25	32	150	TN..1604	2364-0022	2364-1022	T22A	GH0607	G0514-W	GL0822	S4
PTGNR/L 3232P16	32	32	40	170	TN..1604	2364-0024	2364-1024	T22A	GH0607	G0514-W	GL0822	S4
PTGNR/L2 525M22	25	25	32	150	TN..2204	2364-0026	2364-1026	T22A	GH0607	G0514-W	GL0822	S4
PTGNR/L3232P22	32	32	40	170	TN..2204	2364-0028	2364-1028	T22A	GH0607	G0514-W	GL0822	S4

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
PTGNR/L12-3C	.75	.75	1.0	5.0	TN..33	2364-5012	2364-6012	T16A	GH0405	G0310-W	GL0620	S3
PTGNR/L64-3D	.75	1.0	1.0	6.0	TN..33	2364-5014	2364-6014	T16A	GH0405	G0310-W	GL0620	S3
PTGNR/L16-3D	1.0	1.0	1.25	6.0	TN..33	2364-5015	2364-6015	T16A	GH0405	G0310-W	GL0620	S3
PTGNR/L16-4D	1.0	1.0	1.25	6.0	TN..43	2364-5016	2364-6016	T22A	GH0607	G0514-W	GL0822	S4
PTGNR/L85-4E	1.0	1.25	1.25	7.0	TN..43	2364-5018	2364-6018	T22A	GH0607	G0514-W	GL0822	S4

Turning Tool Holders

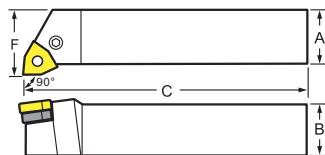
PWLNLR PWLNL



MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM SCREW	CLAMP	CLAMP SCREW	HEXKEY
	A	B	F	C								
PWLNRL1616H06	16	16	20	100	WN..0604	2365-0012	2365-1012	W06A	GH0405	G0312-W	GL0620	S3
PWLNRL2020K06	20	20	25	125	WN..0604	2365-0014	2365-1014	W06A	GH0405	G0312-W	GL0620	S3
PWLNRL2020K08	20	20	25	125	WN..0804	2365-0018	2365-1018	W08A	GH0607	G0514-W	GL0822	S4
PWLNRL2520M08	20	25	25	150	WN..0804	2365-0019	2365-1019	W08A	GH0607	G0514-W	GL0822	S4
PWLNRL2525M08	25	25	32	150	WN..0804	2365-0020	2365-1020	W08A	GH0607	G0514-W	GL0822	S4
PWLNRL3225P08	25	32	32	170	WN..0804	2365-0022	2365-1022	W08A	GH0607	G0514-W	GL0822	S4
PWLNRL3232P10	32	32	40	170	WN..1006	2365-0024	2365-1024	W10A	GH0709	G0616-W	GL0826	S4

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM SCREW	CLAMP	CLAMP SCREW	HEXKEY
	A	B	F	C								
PWLNRL12-4C	.75	.75	1.0	5.0	WN..43	2365-5012	2365-6012	W08A	GH0607	G0514-W	GL0822	S4
PWLNRL64-4D	.75	1.0	1.0	6.0	WN..43	2365-5014	2365-6014	W08A	GH0607	G0514-W	GL0822	S4
PWLNRL16-4D	1.0	1.0	1.25	6.0	WN..43	2365-5015	2365-6015	W08A	GH0607	G0514-W	GL0822	S4
PWLNRL16-5D	1.0	1.0	1.25	6.0	WN..54	2365-5016	2365-6016	W10A	GH0709	G0616-W	GL0826	S4
PWLNRL85-5E	1.0	1.25	1.25	7.0	WN..54	2365-5018	2365-6018	W10A	GH0709	G0616-W	GL0826	S4
PWLNRL20-5E	1.25	1.25	1.5	7.0	WN..54	2365-5020	2365-6020	W10A	GH0709	G0616-W	GL0826	S4

PWGNR PWGNL

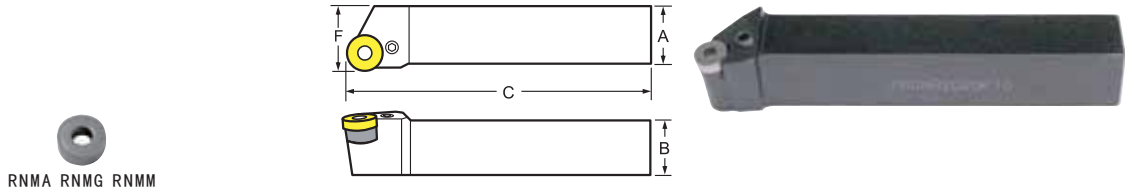


MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM SCREW	CLAMP	CLAMP SCREW	HEXKEY
	A	B	F	C								
PWGNRL2020K08	20	20	25	125	WN..0804	2356-0012	2356-1012	W08A	GH0607	G0514-W	GL0822	S4
PWGNRL2520M08	20	25	25	150	WN..0804	2356-0014	2356-1014	W08A	GH0607	G0514-W	GL0822	S4
PWGNRL2525M08	25	25	32	150	WN..0804	2356-0016	2356-1016	W08A	GH0607	G0514-W	GL0822	S4
PWGNRL2525M10	25	25	32	150	WN..1004	2356-0018	2356-1018	W10A	GH0709	G0616-W	GL0826	S4
PWGNRL3225P10	25	32	32	170	WN..1004	2356-0020	2356-1020	W10A	GH0709	G0616-W	GL0826	S4
PWGNRL4032R13	32	40	40	200	WN..1307	2356-0022	2356-1022	W13A	GH0811	G0719-W	GL1031	S5

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM SCREW	CLAMP	CLAMP SCREW	HEXKEY
	A	B	F	C								
PWGNRL12-4C	.75	.75	1.0	5.0	WN..43	2356-5012	2356-6012	W08A	GH0607	G0514-W	GL0822	S4
PWGNRL64-4D	.75	1.0	1.0	6.0	WN..43	2356-5014	2356-6014	W08A	GH0607	G0514-W	GL0822	S4
PWGNRL16-4D	1.0	1.0	1.25	6.0	WN..43	2356-5016	2356-6016	W08A	GH0607	G0514-W	GL0822	S4
PWGNRL16-5D	1.0	1.0	1.25	6.0	WN..54	2356-5018	2356-6018	W10A	GH0709	G0616-W	GL0826	S4
PWGNRL85-5E	1.0	1.25	1.25	7.0	WN..54	2356-5020	2356-6020	W10A	GH0709	G0616-W	GL0826	S4

Turning Tool Holders

PRG NR PRGNL

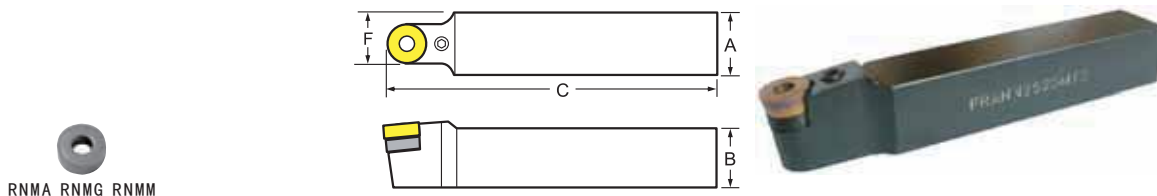


RNMA RNMG RNMM

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
PRG NR/L2020K10	20	20	25	125	RN..1003	2367-0014	2367-1014	R10A	GH0405	G0310-W	GL0620	S3
PRG NR/L2525M12	25	25	32	150	RN..1204	2367-0016	2367-1016	R12A	GH0607	G0514-W	GL0822	S4
PRG NR/L3225P12	25	32	32	170	RN..1204	2367-0018	2367-1018	R12A	GH0607	G0514-W	GL0822	S4
PRG NR/L3232P16	32	32	40	170	RN..1605	2367-0020	2367-1020	R16A	GH0709	G0616-W	GL0826	S4

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
PRG NR/L16-4D	1.0	1.0	1.25	6.0	RN..43	2367-5012	2367-6012	R12A	GH0607	G0514-W	GL0822	S4
PRG NR/L85-4E	1.0	1.25	1.25	7.0	RN..43	2367-5013	2367-6013	R12A	GH0607	G0514-W	GL0822	S4
PRG NR/L20-5E	1.25	1.25	1.5	7.0	RN..53	2367-5014	2367-6014	R16A	GH0709	G0616-W	GL0826	S4
PRG NR/L85-5E	1.0	1.25	1.25	7.0	RN..53	2367-5018	2367-6018	R16A	GH0709	G0616-W	GL0826	S4

PRANN



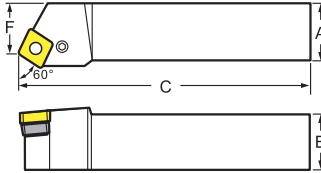
RNMA RNMG RNMM

MODEL	DIMENSIONS				INSERT SIZE	ORDER #					
	A	B	F	C							
PRANN 2020M16	20	20	20.5	150	RN..1605	2369-0012	R16A	GH0709	G0616-W	GL0826	S4
PRANN 2525P16	25	25	20.5	170	RN..1605	2369-0014	R16A	GH0709	G0616-W	GL0826	S4
PRANN 3232P20	32	32	26	170	RN..2006	2369-0016	R20A	GH0811	G0719-W	GL1031	S5

MODEL	DIMENSIONS				INSERT SIZE	ORDER #					
	A	B	F	C							
PRANN12-4C	3/4	3/4	.807	5.0	RN..43	2369-2012	R16A	GH0709	G0616-W	GL0826	S4
PRANN16-4D	1.0	1.0	.807	6.0	RN..43	2369-2014	R16A	GH0709	G0616-W	GL0826	S4
PRANN 20-5E	1.25	1.25	1.0	7.0	RN..53	2369-2016	R20A	GH0811	G0719-W	GL1031	S5

Turning Tool Holders

PCTNR PCTNL

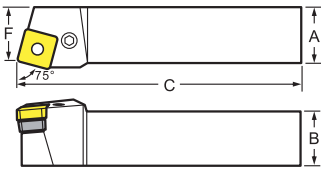
												
												
MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM SCREW	CLAMP	CLAMP SCREW	HEXKEY
PCTNR/L2020K12	20	20	17	125	CN..1204	2370-0010	2370-1010	C12A	GH0607	G0514-W	GL0822	S4
PCTNR/L2525M12	25	25	22	150	CN..1204	2370-0012	2370-1012	C12A	GH0607	G0514-W	GL0822	S4
PCTNR/L2525M16	25	25	22	150	CN..1606	2370-0014	2370-1014	C16A	GH0709	G0616-W	GL0826	S4
PCTNR/L3225M16	25	32	22	150	CN..1606	2370-0016	2370-1016	C16A	GH0709	G0616-W	GL0826	S4
PCTNR/L3232P16	32	32	22	170	CN..1606	2370-0018	2370-1018	C16A	GH0709	G0616-W	GL0826	S4
PCTNR/L3232P19	32	32	27	170	CN..1906	2370-0020	2370-1020	C19A	GH0811	G0719-W	GL1031	S5
PCTNR/L4040R19	40	40	35	200	CN..1906	2370-0022	2370-1022	C19A	GH0811	G0719-W	GL1031	S5

												
MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM SCREW	CLAMP	CLAMP SCREW	HEXKEY
PCTNR/L12-4C	.75	.75	.88	5.0	CN..43	2370-5012	2370-6012	C12A	GH0607	G0514-W	GL0822	S4
PCTNR/L16-4D	1.0	1.0	1.13	6.0	CN..43	2370-5014	2370-6014	C12A	GH0607	G0514-W	GL0822	S4
PCTNR/L16-5D	1.0	1.0	1.13	6.0	CN..54	2370-5016	2370-6016	C16A	GH0709	G0616-W	GL0826	S4
PCTNR/L20-5E	1.25	1.25	1.31	7.0	CN..54	2370-5018	2370-6018	C16A	GH0709	G0616-W	GL0826	S4
PCTNR/L20-6E	1.25	1.25	1.31	7.0	CN..64	2370-5020	2370-6020	C19A	GH0811	G0719-W	GL1031	S5

PSRNR PSRNL

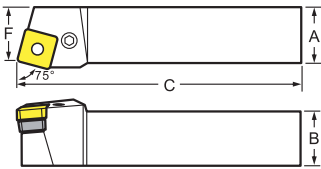


CNMA CNMG CNMM





MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	 SHIM	 SHIM SCREW	 CLAMP	 CLAMP SCREW	 HEXKEY
	A	B	F	C								
PSRNR/L2020K12	20	20	22	125	SN..1204	2371-0012	2371-1012	S12A	GH0607	G0514-W	GL0822	S4
PSRNR/L2520M12	20	25	22	150	SN..1204	2371-0014	2371-1014	S12A	GH0607	G0514-W	GL0822	S4
PSRNR/L2525M12	25	25	27	150	SN..1204	2371-0016	2371-1016	S12A	GH0607	G0514-W	GL0822	S4
PSRNR/L2525M15	25	25	27	150	SN..1506	2371-0018	2371-1018	S15A	GH0709	G0616-W	GL0826	S4
PSRNR/L3225P15	25	32	27	170	SN..1506	2371-0020	2371-1020	S15A	GH0709	G0616-W	GL0826	S4
PSRNR/L4032R19	32	40	35	200	SN..1906	2371-0022	2371-1022	S19A	GH0811	G0719-W	GL1031	S5

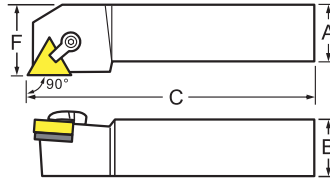




MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	 SHIM	 SHIM SCREW	 CLAMP	 CLAMP SCREW	 HEXKEY
	A	B	F	C								
PSRNR/L12-4C	.75	.75	.88	5.0	CN..43	2371-5012	2371-6012	S12A	GH0607	G0514-W	GL0822	S4
PSRNR/L16-4D	1.0	1.0	1.13	6.0	CN..43	2371-5014	2371-6014	S12A	GH0607	G0514-W	GL0822	S4
PSRNR/L16-5D	1.0	1.0	1.13	6.0	CN..54	2371-5016	2371-6016	S15A	GH0709	G0616-W	GL0826	S4
PSRNR/L20-5E	1.25	1.25	1.35	7.0	CN..54	2371-5018	2371-6018	S15A	GH0709	G0616-W	GL0826	S4

Turning Tool Holders

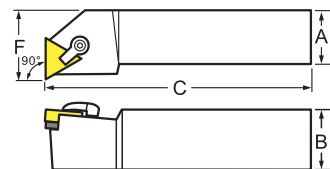
CTGRP CTGPL



MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
CTGRP/L1212H11	12	12	16	100	TPG1102	2391-0004	2391-1012	TP11D	M2.5x8	GL-6	XNS-0517	S1.5/2.5
CTGRP/L1616H16	16	16	20	100	TPG1603	2391-0006	2391-1014	TP16D	GH0607	G0514-W	GL0822	S4
CTGRP/L2020K16	20	20	25	125	TPG1102	2391-0008	2391-1016	TP16D	GH0607	G0514-W	GL0822	S4
CTGRP/L2525M22	25	25	32	150	TPG2204	2391-0010	2391-1018	TP22D	GH0709	G0616-W	GL0826	S4
CTGRP/L3225P22	25	32	32	170	TPG2204	2391-0012	2391-1020	TP22D	GH0709	G0616-W	GL0826	S4
CTGRP/L3232P22	32	32	40	170	TPG2204	2391-0014	2391-1022	TP22D	GH0811	G0719-W	GL1031	S5

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
CTGRP/L10-3B	5/8	5/8	3/4	4.5	TPG321	2391-2008	2391-3008	TP16D	M3x8	CL-6	XNS-0520	S1.5/2.5
CTGRP/L12-3B	3/4	3/4	1.0	4.5	TPG321	2391-2010	2391-3010	TP16D	M3x8	CL-6	XNS-0520	S1.5/2.5
CTGRP/L16-4D	1.0	1.0	1.25	6.0	TPG431	2391-2012	2391-3012	TP22D	M3x8	CL-12	XNS-0829	S1.5/4
CTGRP/L20-4D	1.25	1.25	1.5	6.0	TPG431	2391-2014	2391-3014	TP22D	M3x8	CL-12	XNS-0829	S1.5/4

CTFPR CTFPL



MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
CTFPR/L1212F11	12	12	16	80	TPG1103	2392-0008	2392-1008	TP11D	M2.5x8	GL-6	XNS-0517	S1.5/2.5
CTFPR/L1616H16	16	16	20	100	TPG1603	2392-0010	2392-1010	TP16D	GH0607	G0514-W	GL0822	S4
CTFPR/L2020K16	20	20	25	125	TPG1603	2392-0012	2392-1012	TP16D	GH0607	G0514-W	GL0822	S4
CTFPR/L2525M22	25	25	32	150	TPG2204	2392-0014	2392-1014	TP22D	GH0709	G0616-W	GL0826	S4
CTFPR/L3232P22	32	32	40	170	TPG2204	2392-0016	2392-1016	TP22D	GH0709	G0616-W	GL0826	S4

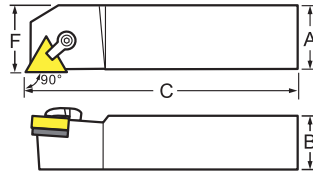
MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
CTFPR/L08-2	1/2	1/2	5/8	2.5	TPG221	2392-2008	2392-3008	TP11D	M2.5x8	CL-6	XNS-0517	S1.5/2.5
CTFPR/L10-2	5/8	5/8	3/4	2.75	TPG221	2392-2010	2392-3010	TP11D	M2.5x8	CL-6	XNS-0517	S1.5/2.5
CTFPR/L10-3B	5/8	5/8	3/4	4.5	TPG321	2392-2012	2392-3012	TP16D	M3x8	CL-6	XNS-0520	S1.5/4
CTFPR/L12-3C	3/4	3/4	1	5.0	TPG321	2392-2014	2392-3014	TP16D	M3x8	CL-6	XNS-0520	S1.5/4
CTFPR/L16-3D	1	1	1	6.0	TPG321	2392-2016	2392-3016	TP16D	M3x8	CL-6	XNS-0520	S1.5/4
CTFPR/L12-4B	3/4	3/4	1.25	4.5	TPG431	2392-2018	2392-3018	TP22D	M3x8	CL-12	XNS-0829	S1.5/4
CTFPR/L16-4D	1	1	1.25	6.0	TPG431	2392-2020	2392-3020	TP22D	M3x8	CL-12	XNS-0829	S1.5/4
CTFPR/L20-4D	1.25	1.25	1.5	6.0	TPG431	2392-2022	2392-3022	TP22D	M3x8	CL-12	XNS-0829	S1.5/4

Turning Tool Holders

CTAPR CTAPL



TPGN TPKN



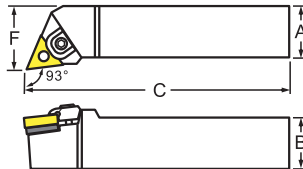
MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM SCREW	CLAMP	CLAMP SCREW	HEKKEY
	A	B	F	C								
CTAPR/L1212F11	12	12	12	80	TPG1103	2393-0008	2391-1008	TP11D	M2.5×8	GL-6	XNS-0517	S1.5/2.5
CTAPR/L1616H16	16	16	16	100	TPG1603	2393-0010	2391-1010	TP16D	M3×8	GL-6	XNS-0520	S1.5/2.5
CTAPR/L2020K16	20	20	20	125	TPG1603	2393-0012	2391-1012	TP16D	M3×8	GL-6	XNS-0520	S1.5/2.5
CTAPR/L2525M22	25	25	25	150	TPG2204	2393-0014	2391-1014	TP22D	M3×8	GL-12	XNS-0829	S1.5/4
CTAPR/L3232P22	32	32	32	170	TPG2204	2393-0016	2391-1016	TP22D	M3×8	GL-12	XNS-0829	S1.5/4

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM SCREW	CLAMP	CLAMP SCREW	HEKKEY
	A	B	F	C								
CTAPR/L06-2J	3/8	3/8	3/8	3.5	TPG221	2393-2006	2393-3006	TP11D	M2.5×8	CL-6	XNS-0517	S1.5/2.5
CTAPR/L08-2J	1/2	1/2	1/2	3.5	TPG221	2393-2008	2393-3008	TP11D	M2.5×8	CL-6	XNS-0517	S1.5/2.5
CTAPR/L10-3B	5/8	5/8	5/8	4.5	TPG321	2393-2010	2393-3010	TP16D	M3×8	CL-6	XNS-0520	S1.5/2.5
CTAPR/L12-3B	3/4	3/4	3/4	4.5	TPG321	2393-2012	2393-3012	TP16D	M3×8	CL-6	XNS-0520	S1.5/2.5
CTAPR/L16-3D	1.0	1.0	1.0	6.0	TPG321	2393-2014	2393-3014	TP16D	M3×8	CL-6	XNS-0520	S1.5/2.5
CTAPR/L16-4D	1.25	1.25	1.25	6.0	TPG431	2393-2016	2393-3016	TP22D	M3×8	CL-12	XNS-0829	S1.5/4

WTJNR WTJNL



TNMG

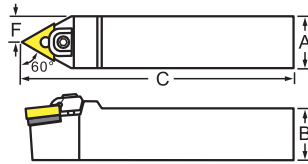


MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM PIN	CLAMP	CLAMP SCREW	HEKKEY CLIPS
	A	B	F	C								
WTJNR/L1616H16	16	16	22	100	TN..1604	2394-0010	2394-1010	WST163	WSP30514	X1518	M5×20	S2.5/4 E4
WTJNR/L2020K16	20	20	25	125	TN..1604	2394-0012	2394-1012	WST164	WSP40517	X1518	M5×20	S2.5/4 E4
WTJNR/L2525M16	25	25	32	150	TN..1604	2394-0014	2394-1014	WST164	WSP40517	X1518	M5×20	S2.5/4 E4
WTJNR/L3225P16	25	32	32	170	TN..1604	2394-0016	2394-1016	WST164	WSP40517	X1518	M5×20	S2.5/4 E4
WTJNR/L3232P16	32	32	40	170	TN..1604	2394-0018	2394-1018	WST164	WSP40517	X1518	M5×20	S2.5/4 E4
WTJNR/L2525M22	25	25	32	150	TN..2204	2394-0020	2394-1020	WST224	WSP40617	X1922	M6×25	S3/5 E5
WTJNR/L3232P22	32	32	40	170	TN..2204	2394-0022	2394-1022	WST224	WSP40617	X1922	M6×25	S3/5 E5

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM SCREW	CLAMP	CLAMP SCREW	HEKKEY CLIPS
	A	B	F	C								
WTJNR/L10-3B	5/8	5/8	.86	4.5	TN..33	2394-2006	2394-3006	WST163	WSP30514	X1518	M5×20	S2.5/4 E4
WTJNR/L12-3B	3/4	3/4	1.0	4.5	TN..33	2394-2008	2394-3008	WST164	WSP40517	X1518	M5×20	S2.5/4 E4
WTJNR/L16-3D	1.0	5/8	1.25	6.0	TN..33	2394-2010	2394-3010	WST164	WSP40517	X1518	M5×20	S2.5/4 E4
WTJNR/L85-3D	1.0	1.25	1.25	6.0	TN..33	2394-2012	2394-3012	WST164	WSP40517	X1518	M5×20	S2.5/4 E4
WTJNR/L16-4D	1.0	1.0	1.25	6.0	TN..43	2394-2014	2394-3014	WST224	WSP40617	X1922	M6×25	S3/5 E5
WTJNR/L85-4E	1.0	1.25	1.25	7.0	TN..43	2394-2016	2394-3016	WST224	WSP40617	X1922	M6×25	S3/5 E5

Turning Tool Holders

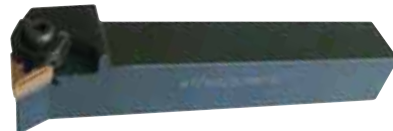
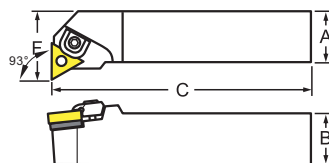
WTENN



MODEL	DIMENSIONS				INSERT SIZE	ORDER #					
	A	B	F	C							
WTENN1616H16	16	16	8	100	TN..1604	2395-0010	WST163	WSP30514	X1518	M5×20	S2.5/4 E4
WTENN2020K1 6	20	20	10	125	TN..1604	2395-0012	WST164	WSP40517	X1518	M5×20	S2.5/4 E4
WTENN2525M 16	25	25	12.5	150	TN..1604	2395-0014	WST164	WSP40517	X1518	M5×20	S2.5/4 E4
WTENN32 25P16	25	32	12.5	170	TN..1604	2395-0016	WST164	WSP40517	X1518	M5×20	S2.5/4 E4
WTENN2525M 22	25	25	12.5	150	TN..2204	2395-0018	WST224	WSP40617	X1922	M6×25	S3/5 E5
WTENN32 25P22	25	32	12.5	170	TN..2204	2395-0020	WST224	WSP40617	X1922	M6×25	S3/5 E5
WTENN323 2P22	32	32	16	170	TN..2204	2395-0022	WST224	WSP40617	X1922	M6×25	S3/5 E5

MODEL	DIMENSIONS				INSERT SIZE	ORDER #					
	A	B	F	C							
WTENN10-3B	3/8	3/8	.312	4.5	TN..332	2395-2010	WST163	WSP30514	X1518	M5×20	S2.5/4 E4
WTENN12-3B	3/4	3/4	3/8	4.5	TN..332	2395-2012	WST164	WSP40517	X1518	M5×20	S2.5/4 E4
WTENN16-3D	1.0	1.0	1/2	6.0	TN..332	2395-2014	WST164	WSP40517	X1518	M5×20	S2.5/4 E4
WTENN85-3E	1.0	1.25	1/2	7.0	TN..332	2395-2016	WST164	WSP40517	X1518	M5×20	S2.5/4 E4
WTENN16-4D	1.0	1.0	1/2	6.0	TN..432	2395-2018	WST224	WSP40617	X1922	M6×25	S3/5 E5
WTENN85-4E	1.0	1.25	1/2	7.0	TN..432	2395-2020	WST224	WSP40617	X1922	M6×25	S3/5 E5
WTENN20-4E	1.25	1.25	5/8	7.0	TN..432	2395-2022	WST224	WSP40617	X1922	M6×25	S3/5 E5

WTFNR WTFNL

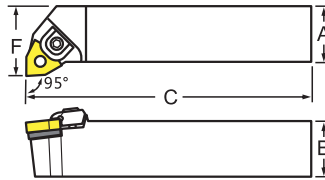


MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
WTFNR/L2020K16	20	20	25	125	TN..1604	2396-0016	2394-1016	WST164	WSP40514	X1518	M5×20	S2.5/4 E4
WTFNR/L2525M16	25	25	32	150	TN..1604	2396-0018	2394-1018	WST164	WSP40517	X1518	M5×20	S2.5/4 E4
WTFNR/L3225P16	25	32	32	170	TN..1604	2396-0020	2394-1020	WST164	WSP40517	X1518	M5×20	S2.5/4 E4

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #					
	A	B	F	C								
WTFNR/L12-3B	3/4	3/4	1.0	4.5	TN..332	2396-2016	2396-3016	WST163	WSP30514	X1518	M5×20	S2.5/4 E4
WTFNR/L16-3D	1.0	1.0	1.25	6.0	TN..332	2396-2018	2396-3018	WST164	WSP40517	X1518	M5×20	S2.5/4 E4
WTFNR/L85-3D	1.0	1.25	1.25	6.0	TN..332	2396-2020	2396-3020	WST164	WSP40517	X1518	M5×20	S2.5/4 E4

Turning Tool Holders

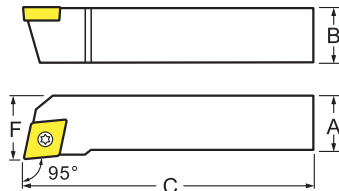
WWLNR WWLNL



MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM SCREW	CLAMP	CLAMP SCREW	HEX KEY CLIPS
	A	B	F	C								
WWLNR/L2020K08	20	20	25	100	WN..0804	2397-0008	2397-1008	WSW084	WSP4617	WW08C	M5×20	S3/4 E4
WWLNR/L2525M08	25	25	32	150	WN..0804	2397-0010	2397-1010	WSW084	WSP4617	WW08C	M5×20	S3/4 E4
WWLNR/L3225P08	25	32	32	170	WN..0804	2397-0012	2397-1012	WSW084	WSP4617	WW08C	M5×20	S3/4 E4

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM SCREW	CLAMP	CLAMP SCREW	HEX KEY CLIPS
	A	B	F	C								
WWLNR/L12-4C	3/4	3/4	1.0	5.0	TN..432	2397-5008	2397-6008	WSW084	WSP30514	X1518	M5×20	S3/4 E4
WWLNR/L16-4D	1.0	1.0	1.25	6.0	TN..432	2397-5010	2397-6010	WSW084	WSP30514	X1518	M5×20	S3/4 E4
WWLNR/L85-4D	1.0	1.25	1.25	6.0	TN..432	2397-5012	2397-6012	WSW084	WSP30514	X1518	M5×20	S3/4 E4

SCLCR SCLCR

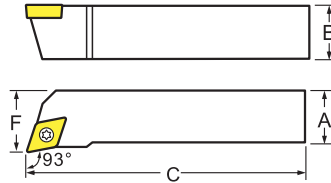


MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SCREW	HEX KEY
	A	B	F	C					
SCLCR/L0808D06	8	8	10	60	CCMT0602.	2370-0004	2370-1004	M2.5×8	T8
SCLCR/L1010E06	10	10	12	70	CCMT0602.	2370-0006	2370-1006	M2.5×8	T8
SCLCR/L1212F09	12	12	16	80	CCMT09T3.	2370-0008	2370-1008	M4×10	T15
SCLCR/L1616H09	16	16	20	100	CCMT09T3.	2370-0010	2370-1010	M4×10	T15
SCLCR/L2020K12	20	20	25	125	CCMT1204.	2370-0012	2370-1012	M5×12	T20
SCLCR/L2525M12	25	25	26	150	CCMT1204.	2370-0014	2370-1014	M5×12	T20
SCLCR/L3232P12	32	32	26	170	CCMT1204.	2370-0016	2370-1016	M5×12	T20

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SCREW	HEX KEY
	A	B	F	C					
SCLCR/L06-2J	3/8	3/8	1/2	3.5	CCMT21.5.	2370-5004	2370-6004	M2.5×8	T8
SCLCR/L08-3A	1/2	1/2	5/8	4.0	CCMT32.5.	2370-5006	2370-6006	M4×10	T15
SCLCR/L10-3B	5/8	5/8	3/4	4.5	CCMT32.5.	2370-5008	2370-6008	M4×10	T15
SCLCR/L12-3B	3/4	3/4	1.0	4.5	CCMT32.5.	2370-5010	2370-6010	M4×10	T15
SCLCR/L12-4B	3/4	3/4	1.0	4.5	CCMT43.	2370-5011	2370-6011	M5×12	T20
SCLCR/L16-4D	1.0	1.0	1.25	6.0	CCMT43.	2370-5012	2370-6012	M5×12	T20

Turning Tool Holders

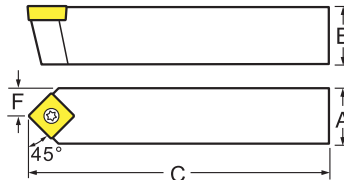
SDJCR SDJCL



MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SCREW	HEXKEY
	A	B	F	C					
SDJCR/L1010E07	10	10	12	70	DCMT0702.	2371-0004	2371-1004	M2.5×8	T8
SDJCR/L1212F07	12	12	16	80	DCMT0702.	2371-0006	2371-1006	M2.5×8	T8
SDJCR/L1616H07	16	16	20	100	DCMT0702.	2371-0008	2371-1008	M2.5×8	T8
SDJCR/L1616H11	16	16	20	100	DCMT11T3.	2371-0010	2371-1010	M4×10	T15
SDJCR/L2020K11	20	20	25	125	DCMT11T3.	2371-0012	2371-1012	M4×10	T15
SDJCR/L2525M11	25	25	32	150	DCMT11T3.	2371-0014	2371-1014	M4×10	T15
SDJCR/L3225P11	25	32	32	170	DCMT11T3.	2371-0016	2371-1016	M4×10	T15

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SCREW	HEXKEY
	A	B	F	C					
SDJCR/L06-2J	3/8	3/8	1/2	3.5	DCMT21.5.	2371-5004	2371-6004	M2.5×8	T8
SDJCR/L08-2A	1/2	1/2	5/8	4.0	DCMT21.5.	2371-5005	2371-6005	M2.5×8	T8
SDJCR/L08-3A	1/2	1/2	5/8	4.0	DCMT32.5.	2371-5006	2371-6006	M4×10	T15
SDJCR/L10-3B	5/8	5/8	3/4	4.5	DCMT32.5.	2371-5008	2371-6008	M4×10	T15
SDJCR/L12-3B	3/4	3/4	1.0	4.5	DCMT32.5.	2371-5010	2371-6010	M4×10	T15

SSDCN



MODEL	DIMENSIONS				INSERT SIZE	ORDER #	SCREW	HEXKEY
	A	B	F	C				
SSDCN0808D06	8	8	4	60	SCMT0602.	2378-0006	M2.5×8	T8
SSDCN1010E06	10	10	5	70	SCMT0602.	2378-0008	M2.5×8	T8
SSDCN1212F06	12	12	6	80	SCMT0602.	2378-0010	M2.5×8	T8
SSDCN1616H09	16	16	8	100	SCMT09T3.	2378-0012	M4×10	T15
SSDCN2020K09	20	20	10	125	SCMT09T3.	2378-0014	M4×10	T15
SSDCN1616H12	16	16	8	100	SCMT1204.	2378-0016	M5×12	T20
SSDCN2020K12	20	20	10	125	SCMT1204.	2378-0018	M5×12	T20
SSDCN2525M12	25	25	12.5	150	SCMT1204.	2378-0020	M5×12	T20

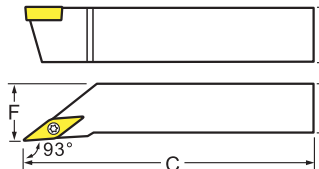
MODEL	DIMENSIONS				INSERT SIZE	ORDER #	SCREW	HEXKEY
	A	B	F	C				
SSDCN06-2J	3/8	3/8	3/16	3.5	SCMT21.5.	2378-5008	M2.5×8	T8
SSDCN08-3A	1/2	1/2	1/4	4.0	SCMT32.5.	2378-5010	M4×10	T15
SSDCN10-3B	5/8	5/8	5/16	4.5	SCMT32.5.	2378-5012	M4×10	T15
SSDCN12-3B	3/4	3/4	3/8	4.5	SCMT32.5.	2378-5014	M4×10	T15
SSDCN12-4B	3/4	3/4	3/8	4.5	SCMT32.5.	2378-5016	M4×10	T15
SSDCN16-4D	1.0	1.0	1/2	6.0	SCMT432	2378-5018	M5×12	T20

Turning Tool Holders

SVJCR SVJCL



VCMT





MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SCREW	HEXKEY
	A	B	F	C					
SVJCR/L1212H11	12	12	16	100	VCMT1103.	2373-0106	2373-1106	M3×8	T8
SVJCR/L1616H11	16	16	20	100	VCMT1103.	2373-0108	2373-1108	M3×8	T8
SVJCR/L2020K11	20	20	25	125	VCMT1103.	2373-0110	2373-1110	M3×8	T8
SVJCR/L2525M11	25	25	32	150	VCMT1103.	2373-0112	2373-1112	M3×8	T8
SVJCR/L1616H16	16	16	20	100	VCMT1604.	2373-0114	2373-1114	M4×10	T15
SVJCR/L2020K16	20	20	25	125	VCMT1604.	2373-0116	2373-1116	M4×10	T15
SVJCR/L2525M16	25	25	32	150	VCMT1604.	2373-0118	2373-1118	M4×10	T15

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SCREW	HEXKEY
	A	B	F	C					
SVJCR/L06-2J	3/8	3/8	1/2	3.5	VCMT22.	2373-5108	2373-6108	M3×8	T8
SVJCR/L08-2A	1/2	1/2	5/8	4.0	VCMT22.	2373-5110	2373-6110	M3×8	T8
SVJCR/L10-2B	5/8	5/8	3/4	4.0	VCMT22.	2373-5112	2373-6112	M3×8	T8
SVJCR/L12-3B	3/4	3/4	1	4.5	VCMT33.	2373-5114	2373-6114	M4×10	T15
SVJCR/L16-3C	1	1	1.25	5.0	VCMT33.	2373-5116	2373-6116	M4×10	T15
SVJCR/L16-3D	1	1	1.25	6.0	VCMT33.	2373-5118	2373-6118	M4×10	T15

SDNCN

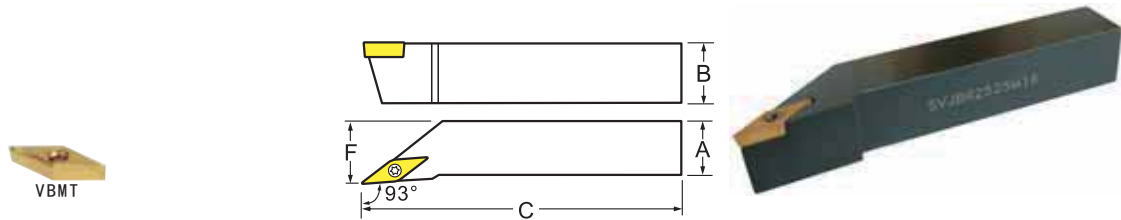
DCMT

MODEL	DIMENSIONS				INSERT SIZE	ORDER #		
	A	B	F	C			SCREW	HEXKEY
SDNCN1010E07	10	10	5	70	DCMT0702.	2372-0004	M2.5×8	T8
SDNCN1212F07	12	12	6	80	DCMT0702.	2372-0006	M2.5×8	T8
SDNCN1616H07	16	16	8	100	DCMT0702.	2372-0007	M2.5×8	T8
SDNCN1212F11	12	12	6	80	DCMT11T3.	2372-0008	M4×10	T15
SDNCN1616H11	16	16	8	100	DCMT11T3.	2372-0010	M4×10	T15
SDNCN2020K11	20	20	10	125	DCMT11T3.	2372-0012	M4×10	T15
SDNCN2525M11	25	25	12.5	150	DCMT11T3.	2372-0014	M4×10	T15

MODEL	DIMENSIONS				INSERT SIZE	ORDER #		
	A	B	F	C			SCREW	HEXKEY
SDNCN06-2J	3/8	3/8	3/16	3.5	DCMT21.5.	2372-5004	M2.5×8	T8
SDNCN08-3A	1/2	1/2	1/4	4.0	DCMT32.5.	2372-5006	M4×10	T15
SDNCN10-3B	5/8	5/8	5/16	4.5	DCMT32.5.	2372-5008	M4×10	T15
SDNCN12-3B	3/4	3/4	3/8	4.5	DCMT32.5.	2372-5010	M4×10	T15
SDNCN16-3D	1.0	1.0	1/2	6.0	DCMT32.5.	2372-5012	M4×10	T15

Turning Tool Holders

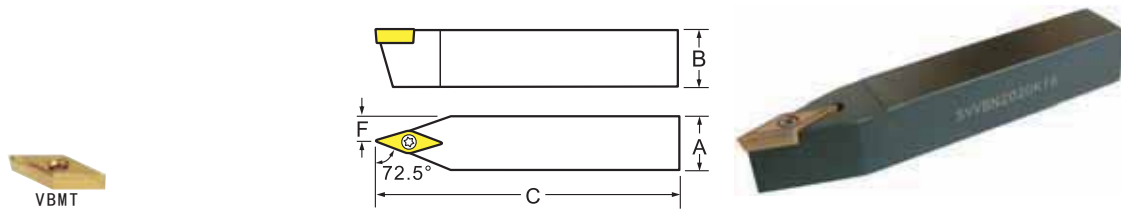
SVJBR SVJBL



MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SCREW	HEXKEY
	A	B	F	C					
SVJBR/L1212F11	12	12	16	80	VBMT1103.	2373-0004	2373-1004	M3×8	T8
SVJBR/L1616H11	16	16	20	100	VBMT1103.	2373-0006	2373-1006	M3×8	T8
SVJBR/L2020K11	20	20	25	125	VBMT1103.	2373-0008	2373-1008	M3×8	T8
SVJBR/L2525M11	25	25	32	150	VBMT1103.	2373-0010	2373-1010	M3×8	T8
SVJBR/L1616H16	16	16	20	100	VBMT1604.	2373-0012	2373-1012	M4×10	T15
SVJBR/L2020K16	20	20	25	125	VBMT1604.	2373-0014	2373-1014	M4×10	T15
SVJBR/L2525M16	25	25	32	150	VBMT1604.	2373-0016	2373-1016	M4×10	T15

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SCREW	HEXKEY
	A	B	F	C					
SVJBR/L06-2J	3/8	3/8	1/2	3.5	VBMT22.	2373-5004	2373-6004	M3×8	T8
SVJBR/L08-2A	1/2	1/2	5/8	4.0	VBMT22.	2373-5006	2373-6006	M3×8	T8
SVJBR/L10-2B	5/8	5/8	3/4	4.5	VBMT22.	2373-5008	2373-6008	M3×8	T8
SVJBR/L12-3B	3/4	3/4	1	4.5	VBMT33.	2373-5010	2373-6010	M4×10	T15
SVJBR/L16-3C	1	1	1.25	5.0	VBMT33.	2373-5012	2373-6012	M4×10	T15
SVJBR/L16-3D	1	1	1.25	6.0	VBMT33.	2373-5014	2373-6014	M4×10	T15

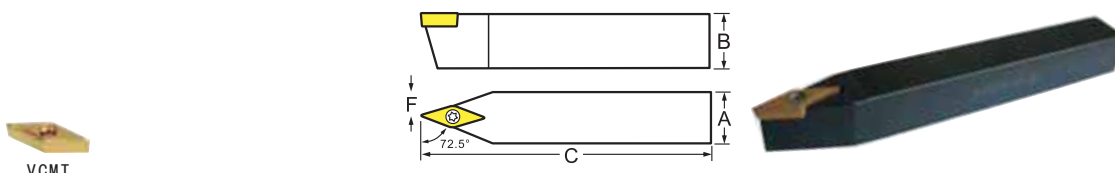
SVVBN



MODEL	DIMENSIONS				INSERT SIZE	ORDER #	SCREW	HEXKEY
	A	B	F	C				
SVVBN1212F11	12	12	6	80	VBMT1102.	2374-0004	M2.5×8	T8
SVVBN1616H11	16	16	8	100	VBMT1102.	2374-0006	M2.5×8	T8
SVVBN2020K11	20	20	10	125	VBMT1102.	2374-0008	M2.5×8	T8
SVVBN1616H16	16	16	8	100	VBMT1604.	2374-0010	M4×10	T15
SVVBN2020K16	20	20	10	125	VBMT1604.	2374-0012	M4×10	T15
SVVBN2525M16	25	25	12.5	150	VBMT1604.	2374-0014	M4×10	T15

MODEL	DIMENSIONS				INSERT SIZE	ORDER #	SCREW	HEXKEY
	A	B	F	C				
SVVBN06-2J	3/8	3/8	3/16	3.5	VBMT22.	2372-5004	M2.5×8	T8
SVVBN08-3A	1/2	1/2	1/4	4.0	VBMT22.	2372-5006	M2.5×8	T8
SVVBN10-3B	5/8	5/8	5/16	4.5	VBMT32.	2372-5008	M4×10	T15
SVVBN12-3B	3/4	3/4	3/8	4.5	VBMT32.	2372-5010	M4×10	T15
SVVBN16-3D	1.0	1.0	1/2	6.0	VBMT32.	2372-5012	M4×10	T15

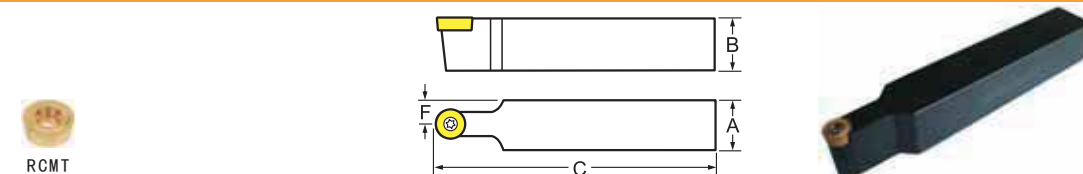
SVVCN



MODEL	DIMENSIONS				INSERT SIZE	ORDER #	SCREW	HEXKEY
	A	B	F	C				
SVVCN1212F11	12	12	6	80	VCMT1103.	2374-0110	M2.5×8	T8
SVVCN1616H11	16	16	8	100	VCMT1103.	2374-0112	M2.5×8	T8
SVVCN2020K11	20	20	10	125	VCMT1103.	2374-0114	M2.5×8	T8
SVVCN1616H16	16	16	8	100	VCMT1604.	2374-0116	M4×10	T15
SVVCN2020K16	20	20	10	125	VCMT1604.	2374-0118	M4×10	T15
SVVCN2525M16	25	25	12.5	150	VCMT1604.	2374-0120	M4×10	T15

MODEL	DIMENSIONS				INSERT SIZE	ORDER #	SCREW	HEXKEY
	A	B	F	C				
SVVCN06-2J	3/8	3/8	3/16	3.5	VBMT22.	2374-5110	M2.5×8	T8
SVVCN08-3A	1/2	1/2	1/4	4.0	VBMT32.	2374-5112	M4×10	T15
SVVCN10-3B	5/8	5/8	5/16	4.5	VBMT32.	2374-5114	M4×10	T15
SVVCN12-3B	3/4	3/4	3/8	4.5	VBMT32.	2374-5116	M4×10	T15
SVVCN16-3D	1.0	1.0	1/2	6.0	VBMT43.	2374-5118	M4×10	T15

SRDCN

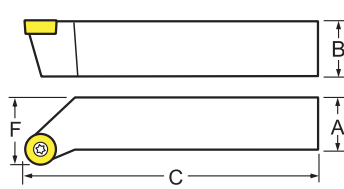


MODEL	DIMENSIONS				INSERT SIZE	ORDER #	SCREW	HEXKEY
	A	B	F	C				
SRDCN1010E06	10	10	5	70	RCMT0602.	2376-0004	M2.2×6	T6
SRDCN1212F06	12	12	6	80	RCMT0602.	2376-0006	M2.2×6	T6
SRDCN1616H08	16	16	8	100	RCMT0803.	2376-0008	M2.5×8	T8
SRDCN2020K08	20	20	10	125	RCMT0803.	2376-0010	M2.5×8	T8

MODEL	DIMENSIONS				INSERT SIZE	ORDER #	SCREW	HEXKEY
	A	B	F	C				
SRDCN06-2J	3/8	3/8	3/16	3.5	RCMT22.	2376-2004	M2.5×6	T6
SRDCN08-3A	1/2	1/2	1/4	4.0	RCMT32.	2376-2006	M3.5×8	T8
SRDCN10-3B	5/8	5/8	5/16	4.5	RCMT32.	2376-2008	M3.5×8	T8
SRDCN12-3B	3/4	3/4	3/8	4.5	RCMT32.	2376-2010	M3.5×8	T8
SRDCN16-3D	1	1	1/2	6.0	RCMT32.	2376-2012	M3.5×8	T8

Turning Tool Holders

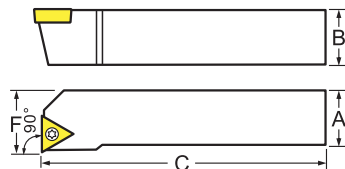
SRGCR SRGCL



MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SCREW	HEXKEY
	A	B	F	C					
SRGCR/L1616H10	16	16	20	100	RCMT10T3.	2377-0002	2377-1002	M2.5×8	T8
SRGCR/L2020K10	20	20	25	125	RCMT10T3.	2377-0004	2377-1004	M2.5×8	T8
SRGCR/L2525M10	25	25	32	150	RCMT10T3.	2377-0006	2377-1006	M2.5×8	T8
SRGCR/L2020K12	20	20	25	125	RCMT1204.	2377-0008	2377-1008	M4×10	T15
SRGCR/L2525M12	25	25	32	150	RCMT1204.	2377-0010	2377-1010	M4×10	T15

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SCREW	HEXKEY
	A	B	F	C					
SRGCR/L06-2J	3/8	3/8	7/16	3.5	RCMT22.	2377-2002	2377-3002	M2.2×6	T6
SRGCR/L08-3J	1/2	1/2	5/8	3.5	RCMT32.	2377-2004	2377-3004	M3.5×8	T8
SRGCR/L10-3B	5/8	5/8	3/4	4.5	RCMT32.	2377-2006	2377-3006	M3.5×8	T8
SRGCR/L12-3C	3/4	3/4	1	5.0	RCMT32.	2377-2008	2377-3008	M3.5×8	T8
SRGCR/L16-4D	1	1	1-1/4	6.0	RCMT32.	2377-2010	2377-3010	M3.5×8	T8

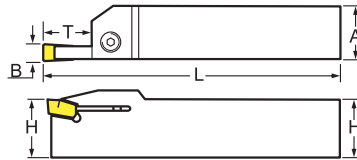
STFCR STFCL



MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SCREW	HEXKEY
	A	B	F	C					
STFCR/L0808D09	8	8	10	60	TCMT0902.	2375-0110	2375-1110	M2.2×6	T6
STFCR/L1010E09	10	10	12	70	TCMT0902.	2375-0112	2375-1112	M2.2×6	T6
STFCR/L1212F11	12	12	16	80	TCMT1102.	2375-0114	2375-1114	M2.5×8	T8
STFCR/L1616H11	16	16	20	100	TCMT1102.	2375-0116	2375-1116	M2.5×8	T8
STFCR/L2020K16	20	20	25	125	TCMT16T3.	2375-0118	2375-1118	M4×10	T15
STFCR/L2525M16	25	25	32	150	TCMT16T3.	2375-0120	2375-1120	M4×10	T15

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SCREW	HEXKEY
	A	B	F	C					
STFCR/L06-2	3/8	3/8	1/2	2.5	TCMT21.51	2375-5110	2375-6110	M2.5×8	T8
STFCR/L08-2J	1/2	1/2	5/8	3.5	TCMT21.51	2375-5112	2375-6112	M2.5×8	T8
STFCR/L10-2A	5/8	5/8	3/4	4.0	TCMT21.51	2375-5114	2375-6114	M2.5×8	T8
STFCR/L10-3B	5/8	5/8	3/4	4.5	TCMT32.51	2375-5116	2375-6116	M4×10	T15
STFCR/L12-3B	3/4	3/4	1.0	4.5	TCMT32.51	2375-5118	2375-6118	M4×10	T15
STFCR/L16-3D	1.0	1.0	1.25	6.0	TCMT32.51	2375-5120	2375-6120	M4×10	T15

Cut-off Tool Holders

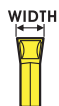


MODEL	DIMENSIONS					INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SCREW	HEXKEY
	A	H	L	B	T					
QA1616R/L03H	16	16	100	3	20	GTN-3	2415-0020	2415-0020	M5×14	S4
QA2020R/L03K	20	20	125	3	20	GTN-3	2415-0022	2415-0022	M6×18	S5
QA2525R/L03M	25	25	150	3	20	GTN-3	2415-0024	2415-0024	M6×18	S5
QA3223R/L03P	25	32	170	3	38	GTN-3	2415-0026	2415-0026	M6×18	S5
QA1616R/L04H	16	16	100	4	20	GTN-4	2415-0028	2415-0028	M5×14	S4
QA2020R/L04K	20	20	125	4	20	GTN-4	2415-0030	2415-0030	M6×18	S5
QA2525R/L04M	25	25	150	4	20	GTN-4	2415-0032	2415-0032	M6×18	S5
QA3225R/L04P	25	32	170	4	38	GTN-4	2415-0034	2415-0034	M6×18	S5
QA2020R/L05K	20	20	125	5	20	GTN-5	2415-0035	2415-0035	M6×18	S5
QA2525R/L05M	25	25	150	5	32	GTN-5	2415-0036	2415-0036	M6×18	S5
QA3225R/L05P	25	32	170	5	32	GTN-5	2415-0038	2415-0038	M6×18	S5
QA2525R/L06M	25	25	150	6	32	GTN-6	2415-0040	2415-0040	M6×18	S5
QA3225R/L06P	25	32	170	6	48	GTN-6	2415-0042	2415-0042	M6×18	S5

MODEL	DIMENSIONS					INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SCREW	HEXKEY
	A	H	L	B	T					
QA08R/L-20B	1/2	1/2	4.5	.079	.79	GTN-2	2415-5024	2415-6024	M4×10	S3
QA10R/L-20B	5/8	5/8	4.5	.079	.79	GTN-2	2415-5026	2415-6026	M5×14	S4
QA12R/L-20C	3/4	3/4	5.0	.079	.79	GTN-2	2415-5028	2415-6028	M6×18	S5
QA12R/L-30C	3/4	3/4	5.0	.118	.79	GTN-3	2415-5030	2415-6030	M6×18	S5
QA16R/L-30D	1.0	1.0	6.0	.118	.79	GTN-3	2415-5032	2415-6032	M6×18	S4
QA12R/L-40C	3/4	3/4	5.0	.157	.98	GTN-4	2415-5034	2415-6034	M6×18	S5
QA16R/L-40D	1.0	1.0	6.0	.157	.98	GTN-4	2415-5036	2415-6036	M6×18	S5
QA20R/L-40D	1.25	1.25	6.0	.157	.98	GTN-4	2415-5038	2415-6038	M6×18	S5
QA16R/L-50D	1.0	1.0	6.0	.197	1.26	GTN-5	2415-5040	2415-6040	M6×18	S5
QA20R/L-50D	1.25	1.25	6.0	.197	1.26	GTN-5	2415-5042	2415-6042	M6×18	S5
QA16R/L-60D	1.0	1.0	6.0	.236	1.26	GTN-6	2415-5044	2415-6044	M6×18	S5
QA20R/L-60D	1.25	1.25	6.0	.236	1.26	GTN-6	2415-5046	2415-6046	M6×18	S5

GTN刀片

"T" TYPE



刀片代号	刀片宽度 WIDTH	Tin-Coated 货号	TiAN 货号
GTN-2	2.1	2403-1002	2403-2002
GTN-3	3.1	2403-1004	2403-2004
GTN-4	4.1	2403-1006	2403-2006
GTN-5	5.1	2403-1008	2403-2008
GTN-6	6.1	2403-1010	2403-2010

Grooving Holders

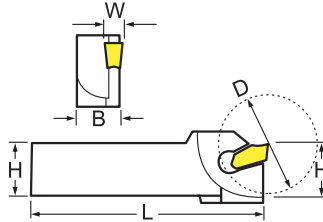
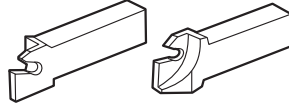
SLTHR SLTHL Grooving Tools

Self-tight cut-off tool

自紧式切槽刀

SLTHR

SLTHL



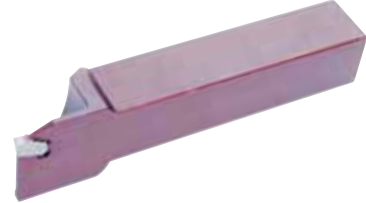
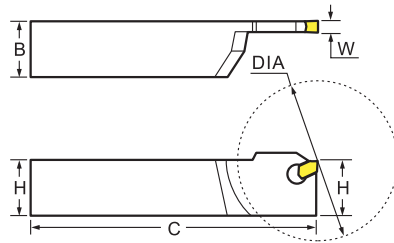
MODEL	DIMENSIONS				MAX.WORK DIA	INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	HEXKEY
	W	H	B	L					
SLTHR/L10-02	2.2~2.4	10	9.5	86	28	GTN-3	2409-0002	2409-1002	CT001
SLTHR/L12-02J	2.2~2.4	12	10	110	30	GTN-3	2409-0004	2409-1004	CT001
SLTHR/L12-03J	3.1	12	10	110	32	GTN-3	2409-0006	2409-1006	CT001
SLTHR/L16-02J	2.2~2.4	16	10	110	30	GTN-3	2409-0008	2409-1008	CT001
SLTHR/L16-03J	3.1	16	12	110	32	GTN-4	2409-0010	2409-1010	CT001
SLTHR/L16-04J	4.1	16	12	110	34	GTN-4	2409-0012	2409-1012	CT001
SLTHR/L20-02J	2.2~2.4	20	12	110	32	GTN-4	2409-0014	2409-1014	CT001
SLTHR/L20-03J	3.1	20	12	110	36	GTN-4	2409-0016	2409-1016	CT001
SLTHR/L20-04J	4.1	20	12	110	39	GTN-5	2409-0018	2409-1018	CT001
SLTHR/L20-05J	5.1	20	12	110	39	GTN-5	2409-0020	2409-1020	CT001

MODEL	DIMENSIONS				MAX.WORK DIA	INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	HEXKEY
	W	H	B	L					
SLTHR/L6-2	.087~.094	3/8	3/8	3.38	1-7/64	GTN-2	2408-0002	2408-0002	CT001
SLTHR/L6-3	.12	3/8	3/8	3.38	1-7/64	GTN-3	2408-0004	2408-0004	CT001
SLTHR/L8-2	.087~.094	1/2	25/64	4.33	1-11/64	GTN-2	2408-0008	2408-0008	CT001
SLTHR/L8-3	.12	1/2	25/64	4.33	1-17/64	GTN-3	2408-0010	2408-0010	CT001
SLTHR/L10-2	.087~.094	5/8	25/64	4.33	1-11/64	GTN-2	2408-0012	2408-0012	CT001
SLTHR/L10-3	.12	5/8	15/32	4.33	1-17/64	GTN-3	2408-0014	2408-0014	CT001
SLTHR/L10-4	.16	5/8	15/32	4.33	1-21/64	GTN-4	2408-0016	2408-0016	CT001
SLTHR/L12-2	.087~.094	3/4	15/32	4.33	1-17/64	GTN-2	2408-0018	2408-0018	CT001
SLTHR/L12-3	.12	3/4	15/32	4.33	1-13/64	GTN-3	2408-0020	2408-0020	CT001
SLTHR/L12-4	.16	3/4	15/32	4.33	1-17/32	GTN-4	2408-0022	2408-0022	CT001
SLTHR/L12-5	.187~.2	3/4	15/32	4.33	1-17/32	GTN-5	2408-0024	2408-0024	CT001
SLTHR/L16-3	.12	1.0	63/64	4.33	2-1/16	GTN-3	2408-0026	2408-0026	CT001
SLTHR/L16-4	.16	1.0	63/64	4.33	2-1/2	GTN-4	2408-0028	2408-0028	CT001
SLTHR/L16-5	.187~.2	1.0	63/64	4.33	3	GTN-5	2408-0030	2408-0030	CT001

SGTHR SGTHL Grooving Tools

Self-tight cut-off tool

自紧式切槽刀



MODEL	DIMENSIONS				MAX.WORK DIA	INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	HEXKEY
	H	B	L	W					
SGTHR/L9.5-2	.375	.375	3.38	.087~.094	1.1	GTN-2	2409-5032	2409-6032	CT001
SGTHR/L9.5-3	.375	.375	3.38	.12	1.1	GTN-3	2409-5034	2409-6034	CT001
SGTHR/L12-2	.472	.394	4.33	.087~.094	1.18	GTN-2	2409-5036	2409-6036	CT001
SGTHR/L12-3	.472	.394	4.33	.12	1.26	GTN-3	2409-5038	2409-6038	CT001
SGTHR/L12.7-2	.5	.375	4.33	.087~.094	1.18	GTN-2	2409-5040	2409-6040	CT001
SGTHR/L12.7-3	.5	.375	4.33	.12	1.26	GTN-3	2409-5042	2409-6042	CT001
SGTHR/L16-2	.625	.394	4.33	.087~.094	1.18	GTN-2	2409-5044	2409-6044	CT001
SGTHR/L16-3	.625	.472	4.33	.12	1.26	GTN-3	2409-5046	2409-6046	CT001
SGTHR/L16-4	.625	.472	4.33	.16	1.34	GTN-4	2409-5048	2409-6048	CT001
SGTHR/L19-2	.75	.5	4.33	.084~.094	1.38	GTN-2	2409-5050	2409-6050	CT001
SGTHR/L19-3	.75	.5	4.33	.12	1.38	GTN-3	2409-5052	2409-6052	CT001
SGTHR/L19-4	.75	.5	5.33	.16	1.38	GTN-4	2409-5054	2409-6054	CT001
SGTHR/L19-5	.75	.5	5.33	.187~.2	1.38	GTN-5	2409-5056	2409-6056	CT001
SGTHR/L25.4-3	1	1	5.9	.12	2.05	GTN-3	2409-5058	2409-6058	CT001
SGTHR/L25.4-4	1	1	5.9	.16	2.44	GTN-4	2409-5060	2409-6060	CT001
SGTHR/L25.4-5	1	1	5.9	.187~.2	2.95	GTN-5	2409-5062	2409-6062	CT001

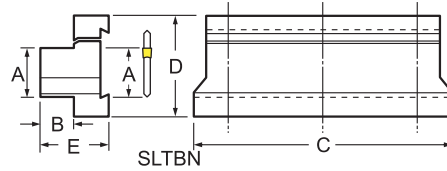
Grooving Holders

SLTBN Grooving Tools

Self-tight cut-off tool
自紧式切断刀盒



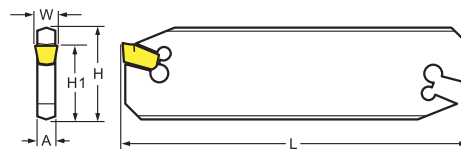
SLTBN



MODEL	ACCERTS BLADE	DIMENSIONS					ORDER #	HEXKEY
		A	B	C	D	E		
SLTBN16-02	SLIH/NCIH19-02	16	16	76	30	26	2406-0002	CT001
SLTBN16-05	SLIH/NCIH26-02,03,04,05,06	16	16	87	38	33	2406-0004	CT001
SLTBN20-05	SLIH/NCIH26-02,03,04,05,06	20	20	87	38	36	2406-0006	CT001
SLTBN20-06	SLIH/NCIH32-03,04,05,06	20	20	100	48	36	2406-0008	CT001
SLTBN25-06	SLIH/NCIH32-03,04,05,06	25	25	110	48	37	2406-0010	CT001
SLTBN32-06	SLIH/NCIH32-03,04,05,06	32	32	110	48	46	2406-0012	CT001

MODEL	ACCERTS BLADE	DIMENSIONS					ORDER #	HEXKEY
		A	B	C	D	E		
SLTBN16-2	SLIH/NCIH19-2	5/8	5/8	3-7/16	1-3/16	1-1/64	2405-0002	CT001
SLTBN16-5	SLIH/NCIH26-2,3,4,5,6	5/8	5/8	3-7/16	1-1/2	1-5/16	2405-0004	CT001
SLTBN19-5	SLIH/NCIH26-2,3,4,5,6	3/4	3/4	3-7/16	1-1/2	1-7/16	2405-0006	CT001
SLTBN19-6	SLIH/NCIH32-3,4,5,6	3/4	3/4	3-15/16	1-7/8	1-3/8	2405-0008	CT001
SLTBN25-6	SLIH/NCIH32-3,4,5,6	1	25/32	4-5/16	1-7/8	1-15/32	2405-0010	CT001
SLTBN25-4-6	SLIH/NCIH32-3,4,5,6	1	7/8	4-1/2	1-7/8	1-17/32	2405-0012	CT001
SLTBN32-6	SLIH/NCIH32-3,4,5,6	1-1/4	1-1/4	4-5/16	1-7/8	1-13/16	2405-0014	CT001

NCIH Blades



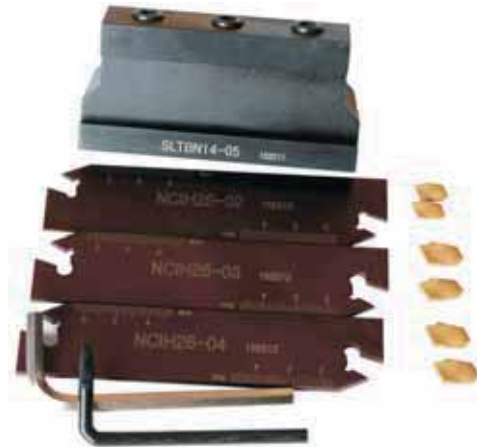
Metric

MODEL	DIMENSIONS					MAX.WORK	
	W	A	L	H1	H	DIA	ORDER #
NCIH19-02	2.2	1.6	86	15.5	19	40	2402-1002
NCIH26-02	2.2	1.6	110	21	26	75	2402-1004
NCIH26-03	3.1	2.4	110	21	26	75	2402-1006
NCIH26-04	4.1	3.2	110	21	26	75	2402-1008
NCIH26-05	5.1	4.0	110	21	26	75	2402-1010
NCIH26-06	6.4	5.2	110	21	26	75	2402-1012
NCIH32-03	3.1	2.4	150	25	32	100	2402-1014
NCIH32-04	4.1	3.2	150	25	32	100	2402-1016
NCIH32-05	5.1	4.0	150	25	32	127	2402-1018
NCIH32-06	6.4	5.2	150	25	32	127	2402-1020

Inch

MODEL	DIMENSIONS					MAX.WORK	
	W	A	L	H1	H	DIA	ORDER #
NCIH19-2	.087~.094	.063	3.38	.84	.75	1-1/2	2402-0002
NCIH26-2	.087~.094	.063	4.33	.84	1.02	3	2402-0004
NCIH26-3	.12	.094	4.33	.84	1.02	3	2402-0006
NCIH26-4	.16	.125	4.33	.84	1.02	3	2402-0008
NCIH26-5	.187~.2	.156	4.33	.84	1.02	4	2402-0010
NCIH26-6	.25	.203	4.33	.84	1.05	4	2402-0012
NCIH32-3	.12	.094	5.9	.98	1.25	4	2402-0014
NCIH32-4	.16	.125	5.9	.98	1.25	4	2402-0016
NCIH32-5	.187~.2	.156	5.9	.98	1.25	5	2402-0018
NCIH32-6	.25	.203	5.9	.98	1.25	5	2402-0020

Grooving Tools Sets



Inch英制

Model:SL196-12

*1PCS: SLTBN19-5
 *1PCS: NC1H26-2
 *1PCS: NC1H26-3
 *1PCS: NC1H26-4
 *2PCS Insert: GTN-2Tin
 *2PCS Insert: GTN-3Tin
 *2PCS Insert: GTN-4Tin
 *2PCS Wrench
 Order No: 2410-0011

Inch英制

Model:SL195-15

*1PCS: SLTBN19-5
 *1PCS: NC1H26-3
 *1PCS: NC1H26-4
 *5PCS Insert: GTN-3Tin
 *5PCS Insert: GTN-4Tin
 *2PCS Wrench
 Order No: 2410-0013

Inch英制

Model:SL165-14

*1PCS: SLTBN16-5
 *1PCS: NC1H26-3
 *10PCS Insert: GTN-3Tin
 *2PCS Wrench
 Order No: 2410-0015

Inch英制

Model:SL160-14

*1PCS: SLTBN16-5
 *1PCS: NC1H26-2
 *10PCS Insert: GTN-2Tin
 *2PCS Wrench
 Order No: 2410-0017

Inch英制

Model:SL165-12

*1PCS: SLTBN16-5
 *1PCS: NC1H26-2
 *1PCS: NC1H26-3
 *1PCS: NC1H26-4
 *2PCS Insert: GTN-2Tin
 *2PCS Insert: GTN-3Tin
 *2PCS Insert: GTN-4Tin
 *2PCS Wrench
 Order No: 2410-0019

Inch英制

Model:SL201-12

*1PCS: SLTBN19-6
 *1PCS: NC1H32-3
 *1PCS: NC1H32-4
 *1PCS: NC1H32-5
 *2PCS Insert: GTN-3Tin
 *2PCS Insert: GTN-4Tin
 *2PCS Insert: GTN-5Tin
 *2PCS Wrench
 Order No: 2410-0021

Inch英制

Model:SL251-12

*1PCS: SLTBN25-6
 *1PCS: NC1H32-3
 *1PCS: NC1H32-4
 *1PCS: NC1H32-5
 *2PCS Insert: GTN-3Tin
 *2PCS Insert: GTN-4Tin
 *2PCS Insert: GTN-5Tin
 *2PCS Wrench
 Order No: 2410-0023

Inch英制

Model:SL252-12

*1PCS: SLTBN32-6
 *1PCS: NC1H32-3
 *1PCS: NC1H32-4
 *1PCS: NC1H32-5
 *2PCS Insert: GTN-3Tin
 *2PCS Insert: GTN-4Tin
 *2PCS Insert: GTN-5Tin
 *2PCS Wrench
 Order No: 2410-0025

Metric公制

Model:SL1605-12

*1PCS: SLTBN16-05
 *1PCS: NC1H26-02
 *1PCS: NC1H26-03
 *1PCS: NC1H26-04
 *2PCS Insert: GTN-2Tin
 *2PCS Insert: GTN-3Tin
 *2PCS Insert: GTN-4Tin
 *2PCS Wrench
 Order No: 2410-0010

Metric公制

Model:SL2005-12

*1PCS: SLTBN20-05
 *1PCS: NC1H26-02
 *1PCS: NC1H26-03
 *1PCS: NC1H26-04
 *2PCS Insert: GTN-2Tin
 *2PCS Insert: GTN-3Tin
 *2PCS Insert: GTN-4Tin
 *2PCS Wrench
 Order No: 2410-0012

Metric公制

Model:SL2006-12

*1PCS: SLTBN20-06
 *1PCS: NC1H32-03
 *1PCS: NC1H32-04
 *1PCS: NC1H32-05
 *2PCS Insert: GTN-3Tin
 *2PCS Insert: GTN-4Tin
 *2PCS Insert: GTN-5Tin
 *2PCS Wrench
 Order No: 2410-0014

Metric公制

Model:SL2506-12

*1PCS: SLTBN25-06
 *1PCS: NC1H32-03
 *1PCS: NC1H32-04
 *1PCS: NC1H32-05
 *2PCS Insert: GTN-3Tin
 *2PCS Insert: GTN-4Tin
 *2PCS Insert: GTN-5Tin
 *2PCS Wrench
 Order No: 2410-0016

Metric公制

Model:SL3206-12

*1PCS: SLTBN32-06
 *1PCS: NC1H32-03
 *1PCS: NC1H32-04
 *1PCS: NC1H32-05
 *2PCS Insert: GTN-3Tin
 *2PCS Insert: GTN-4Tin
 *2PCS Insert: GTN-5Tin
 *2PCS Wrench
 Order No: 2410-0016

Metric公制

Model:SL2506-21

*1PCS: SLTBN25-06
 *2PCS: NC1H32-03
 *2PCS: NC1H32-04
 *2PCS: NC1H32-05
 *4PCS Insert: GTN-3Tin
 *4PCS Insert: GTN-4Tin
 *4PCS Insert: GTN-5Tin
 *2PCS Wrench
 Order No: 2410-0018

Metric公制

Model:SL2005-06

*1PCS: SLTBN20-05
 *1PCS: NC1H26-03
 *2PCS Insert: GTN-3Tin
 *2PCS Wrench
 Order No: 2410-0020

Metric公制

Model:SL2005-17

*1PCS: SLTBN20-05
 *2PCS: NC1H26-02
 *2PCS: NC1H26-03
 *5PCS Insert: GTN-2Tin
 *5PCS Insert: GTN-3Tin
 *2PCS Wrench
 Order No: 2410-0022

Grooving Holders

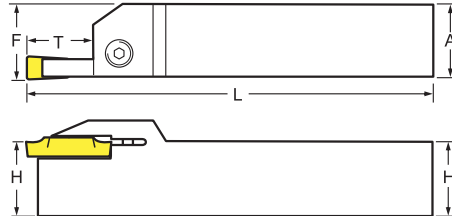
MGEHR MGTHL Grooving Tools

Cylindrical grooving

外圆切槽刀

Specially designed for cutting or in a certain range of diameters Material Cut-Off and design.

专为切槽或一定范围内直径的材料切断而设计。

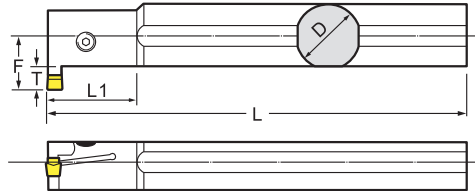


MODEL	DIMENSIONS					INSERT SIZE	Tin-Coated RIGHT HAND ORDER #	Tin-Coated LEFT HAND ORDER #	SCREW	HEXKEY
	A	H	L	F	T					
MGEHR/L0610E02	10	06	70	10.5	16	MGMN2	2413-0002	2413-1002	M6×20	S5
MGEHR/L0810E02	10	08	70	10.5	16	MGMN2	2413-0004	2413-1004	M6×20	S5
MGEHR/L1010F02	10	10	80	10.5	16	MGMN2	2413-0006	2413-1006	M6×20	S5
MGEHR/L1212H02	12	12	100	12.5	16	MGMN2	2413-0008	2413-1008	M6×20	S5
MGEHR/L1212H03	12	12	100	12.5	21	MGMN3	2413-0010	2413-1010	M6×20	S5
MGEHR/L1616H03	16	16	100	16.5	21	MGMN3	2413-0012	2413-1012	M6×20	S5
MGEHR/L2020K03	20	20	125	20.5	21	MGMN3	2413-0014	2413-1014	M6×20	S5
MGEHR/L2525M03	25	25	150	25.5	21	MGMN3	2413-0016	2413-1016	M6×20	S5
MGEHR/L1616H04	16	16	100	16.5	21	MGMN4	2413-0018	2413-1018	M6×20	S5
MGEHR/L2020K04	20	20	125	20.5	21	MGMN4	2413-0020	2413-1020	M6×20	S5
MGEHR/L2525M04	25	25	150	25.5	21	MGMN4	2413-0022	2413-1022	M6×20	S5
MGEHR/L3232P04	32	32	170	25.5	21	MGMN4	2413-0024	2413-1024	M6×20	S5

MODEL	DIMENSIONS					INSERT SIZE	Tin-Coated RIGHT HAND ORDER #	Tin-Coated LEFT HAND ORDER #	SCREW	HEXKEY
	A	H	L	F	T					
MGEHR/L0250-2	3/8	1/4	3	13/32	5/8	MGMN2	2414-0002	2414-1002	M6×20	S5
MGEHR/L0313-2	3/8	5/16	3	13/32	5/8	MGMN2	2414-0004	2414-1004	M6×20	S5
MGEHR/L0375-2	3/8	3/8	3-1/4	13/32	5/8	MGMN2	2414-0006	2414-1006	M6×20	S5
MGEHR/L0500-2	1/2	1/2	4	1/2	5/8	MGMN2	2414-0008	2414-1008	M6×20	S5
MGEHR/L0500-3	1/2	1/2	4	1/2	7/8	MGMN3	2414-0010	2414-1010	M6×20	S5
MGEHR/L0625-3	5/8	5/8	4	21/32	7/8	MGMN3	2414-0012	2414-1012	M6×20	S5
MGEHR/L0750-3	3/4	3/4	5	13/16	7/8	MGMN3	2414-0014	2414-1014	M6×20	S5
MGEHR/L1000-3	1	1	6	1	7/8	MGMN3	2414-0016	2414-1016	M6×20	S5
MGEHR/L0625-4	5/8	5/8	4	21/32	7/8	MGMN4	2414-0018	2414-1018	M6×20	S5
MGEHR/L0750-4	3/4	3/4	5	13/16	7/8	MGMN4	2414-0020	2414-1020	M6×20	S5
MGEHR/L1000-4	1	1	6	1	7/8	MGMN4	2414-0022	2414-1022	M6×20	S5
MGEHR/L1250-4	1-1/4	1-1/4	7	1	7/8	MGMN4	2414-0024	2414-1024	M6×20	S5

MGIVR MGIVL Grooving Tools Sets

Inner diameter grooving



MODEL	DIMENSIONS					MIN DIA	INSERT SIZE	Tin-Coated RIGHT HAND ORDER #	Tin-Coated LEFT HAND ORDER #	SCREW	HEXKEY
	D	L	L1	F	T						
S16K-MGIVR/L02	16	125	35	12.4	5	23	MGMN2	2415-0002	2415-1002	M5×15	S4
S20M-MGIVR/L02	20	150	45	14	5	28	MGMN2	2415-0004	2415-1004	M5×15	S4
S25R-MGIVR/L02	25	200	45	17.2	5	33	MGMN2	2415-0006	2415-1006	M5×15	S4
S20M-MGIVR/L03	20	150	45	15.6	6	28	MGMN3	2415-0008	2415-1008	M5×15	S4
S25R-MGIVR/L03	25	200	45	18.9	6	33	MGMN3	2415-0010	2415-1010	M5×15	S4
S32S-MGIVR/L03	32	250	65	21.5	6	40	MGMN3	2415-0012	2415-1012	M5×15	S4
S20M-MGIVR/L04	20	150	45	15.6	6	28	MGMN4	2415-0014	2415-1014	M5×15	S4
S25R-MGIVR/L04	25	200	45	18.9	6	33	MGMN4	2415-0016	2415-1016	M5×15	S4
S32S-MGIVR/L04	32	250	65	21.5	6	40	MGMN4	2415-0018	2415-1018	M5×15	S4
S25R-MGIVR/L05	25	200	45	19.4	8	33	MGMN5	2415-0020	2415-1020	M5×15	S4
S32S-MGIVR/L05	32	250	65	21.5	8	40	MGMN5	2415-0022	2415-1022	M5×15	S4
S25R-MGIVR/L06	25	200	45	19.4	8	33	MGMN6	2415-0024	2415-1024	M5×15	S4
S32S-MGIVR/L06	32	250	65	21.5	8	40	MGMN6	2415-0026	2415-1026	M5×15	S4

MODEL	DIMENSIONS					MIN DIA	INSERT SIZE	Tin-Coated RIGHT HAND ORDER #	Tin-Coated LEFT HAND ORDER #	SCREW	HEXKEY
	D	L	L1	F	T						
S10Q-MGIVR/L2	5/8	7	1-1/2	1/2	3/16	15/16	MGMN2	2415-2002	2415-3002	M5×15	S4
S12R-MGIVR/L2	3/4	8	1-3/4	9/16	3/16	1-1/8	MGMN2	2415-2004	2415-3004	M5×15	S4
S16S-MGIVR/L2	1	10	1-3/4	11/16	3/16	1-1/4	MGMN2	2415-2006	2415-3006	M5×15	S4
S20T-MGIVR/L2	1-1/4	12	2-1/2	27/32	1/4	1-9/16	MGMN2	2415-2008	2415-3008	M5×15	S4
S12R-MGIVR/L3	3/4	8	1-3/4	5/8	1/4	1-1/8	MGMN3	2415-2010	2415-3010	M5×15	S4
S16S-MGIVR/L3	1	10	1-3/4	3/4	1/4	1-1/4	MGMN3	2415-2012	2415-3012	M5×15	S4
S20T-MGIVR/L3	1-1/4	12	2-1/2	27/32	1/4	1-9/16	MGMN3	2415-2014	2415-3014	M5×15	S4
S12R-MGIVR/L4	3/4	8	1-3/4	5/8	1/4	1-1/8	MGMN4	2415-2016	2415-3016	M5×15	S4
S16S-MGIVR/L4	1	10	1-3/4	3/4	5/16	1-1/4	MGMN4	2415-2018	2415-3018	M5×15	S4
S20T-MGIVR/L4	1-1/4	12	2-1/2	27/32	5/16	1-9/16	MGMN4	2415-2020	2415-3020	M5×15	S4

MGMN Cut-Off Insert

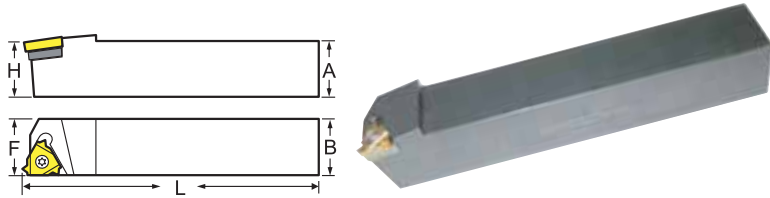
双头切刀片

刀片代号	刀片宽度 WIDTH	Tin-Coated 货号	TiAl 货号
MGMN-2	2mm	2403-3022	2403-4022
MGMN-2.5	2.5mm	2403-3024	2403-4024
MGMN-3	3mm	2403-3026	2403-4026
MGMN-4	4mm	2403-3028	2403-4028
MGMN-5	5mm	2403-3030	2403-4030
MGMN-6	6mm	2403-3032	2403-4032

Thread Holders

Thread Tools Holders

External thread turning tool
外螺纹车刀



MODEL	DIMENSIONS				INSERT SIZE	ORDER #	SHIM	SHIM PIN	SCREW	WRENCH
	A	B	F	L						
SER1212H11	12	12	15	100	11ER	2650-1001			MLD-M25	T8
SER1616H16	16	16	16	100	16ER	2650-1003	LT16R-3	SDN535	MLD-M35	T15 S3.5
SER2020K16	20	20	20	125	16ER	2650-1005	LT16R-3	SDN535	MLD-M35	T15 S3.5
SER2525M16	25	25	25	150	16ER	2650-1007	LT16R-3	SDN535	MLD-M35	T15 S3.5
SER3225P16	32	25	25	170	16ER	2650-1009	LT16R-3	SDN535	MLD-M35	T15 S3.5
SEL1212H11	12	12	15	100	11EL	2650-2001			MLD-M25	T8
SEL1616H16	16	16	16	100	16EL	2650-2003	LT16L-3	SDN535	MLD-M35	T15 S3.5
SEL2020K16	20	20	20	125	16EL	2650-2005	LT16L-3	SDN535	MLD-M35	T15 S3.5
SEL2525M16	25	25	25	150	16EL	2650-2007	LT16L-3	SDN535	MLD-M35	T15 S3.5
SEL3225P16	32	25	25	170	16EL	2650-2009	LT16L-3	SDN535	MLD-M35	T15 S3.5

MODEL	DIMENSIONS				INSERT SIZE	ORDER #	SHIM	SHIM PIN	SCREW	WRENCH
	A	B	F	L						
SER0375F11	3/8	3/8	.38	2.5	11ER	2651-1001			MLD-M25	T8
SER0500H11	1/2	1/2	.5	4	16ER	2651-1003	LT16R-3	SDN535	MLD-M35	T15 S3.5
SER0625K16	5/8	5/8	.63	5	16ER	2651-1005	LT16R-3	SDN535	MLD-M35	T15 S3.5
SER0750K16	3/4	3/4	1	5	16ER	2651-1007	LT16R-3	SDN535	MLD-M35	T15 S3.5
SER1000M16	1	1	1	6	16ER	2651-1009	LT16R-3	SDN535	MLD-M35	T15 S3.5
SEL0375F11	3/8	3/8	.38	2.5	11EL	2651-2001			MLD-M25	T8
SEL0500H11	1/2	1/2	.5	4	16EL	2651-2003	LT16L-3	SDN535	MLD-M35	T15 S3.5
SEL0625K16	5/8	5/8	.63	5	16EL	2651-2005	LT16L-3	SDN535	MLD-M35	T15 S3.5
SEL0750K16	3/4	3/4	1	5	16EL	2651-2007	LT16L-3	SDN535	MLD-M35	T15 S3.5
SEL1000M16	1	1	1	6	16EL	2651-2009	LT16L-3	SDN535	MLD-M35	T15 S3.5

平装螺纹车刀零件

刀片安装螺钉



规格	刀片	货号
MLD-M25	11ER	2995-0162
MLD-M35	16ER	2995-0163
MLD-M50	22ER	2995-0166

刀垫紧固螺钉



规格	刀片	货号
SDN535	16ER	2995-0300
SDN850	22ER	2995-0302

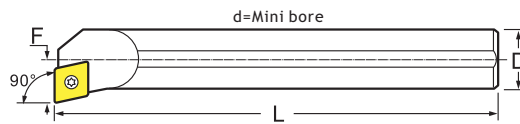
刀垫



规格	刀片	货号
LT16R-3.0	16ER	2995-0400
LT16L-3.0	16IR	2995-0402
LT22R-4.0	22ER	2995-0401
LT22L-4.0	22IR	2995-0403



S- SCFCR SCFCL

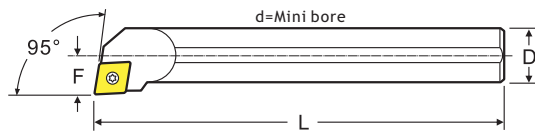
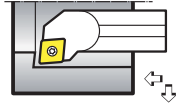


MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	INSERT SCREW	WRENCH
	D	F	L	d					
S10K-SCFCR/L06	10	7	125	13	CCMT0602	2600-2008	2600-3008	M2.5×6	T8
S12M-SCFCR/L06	12	9	150	16	CCMT0602	2600-2010	2600-3010	M2.5×8	T8
S16R-SCFCR/L09	16	11	200	20	CCMT09T3	2600-2012	2600-3012	M4×8	T15
S20S-SCFCR/L09	20	13	250	25	CCMT09T3	2600-2014	2600-3014	M4×10	T15
S25T-SCFCR/L12	25	17	300	32	CCMT1204	2600-2016	2600-3016	M5×12	T20
S32U-SCFCR/L12	32	22	350	40	CCMT1204	2600-2018	2600-3018	M5×12	T20
S40U-SCFCR/L12	40	27	350	50	CCMT1204	2600-2020	2600-3020	M5×12	T20
S06M-SCFCR/L2	3/8	1/4	6.0	1/2	CCMT21.51	2600-8008	2600-9008	M2.5×6	T8
S08Q-SCFCR/L2	1/2	5/16	7.0	5/8	CCMT21.51	2600-8010	2600-9010	M2.5×8	T8
S10R-SCFCR/L3	5/8	13/32	8.0	13/16	CCMT32.52	2600-8012	2600-9012	M4×8	T15
S12S-SCFCR/L3	3/4	1/2	10	1	CCMT32.52	2600-8014	2600-9014	M4×10	T15

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	INSERT SCREW	WRENCH
	D	F	L	d					
A12K-SCFCR/L06	12	9	125	16	CCMT0602	2600-0001	2600-0002	M2.5×6	T8
A16M-SCFCR/L06	16	11	150	20	CCMT09T3	2600-0003	2600-0004	M2.5×8	T8
A20Q-SCFCR/L09	20	13	180	25	CCMT09T3	2600-0005	2600-0006	M4×8	T15
A25R-SCFCR/L09	25	17	200	32	CCMT1204	2600-0007	2600-0008	M4×10	T15
A32S-SCFCR/L12	32	22	250	40	CCMT1204	2600-0009	2600-0010	M5×12	T20
A40T-SCFCR/L12	40	27	300	50	CCMT1204	2600-0011	2600-0012	M5×12	T20
A06J-SCFCR/L2	3/8	1/4	4.5	1/2	CCMT21.51	2600-5001	2600-5002	M2.5×6	T8
A08M-SCFCR/L2	1/2	5/16	6.0	5/8	CCMT21.51	2600-5003	2600-5004	M2.5×8	T8
A10Q-SCFCR/L3	5/8	13/32	7.0	13/16	CCMT32.52	2600-5005	2600-5006	M4×8	T15
A12R-SCFCR/L3	3/4	1/2	8.0	1	CCMT32.52	2600-5007	2600-5008	M4×10	T15

Boring Bar Tools Holders

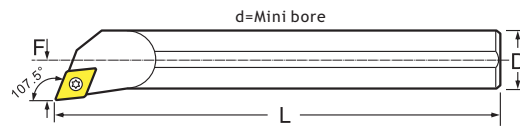
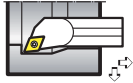
S-SCLCR SCLCL



MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	INSERT SCREW	WRENCH
	D	F	L	d					
S08H-SCLCR/L06	8	6	125	13	CCMT0602	2601-2008	2601-3008	M2.5×6	T8
S10K-SCLCR/L06	10	7	125	13	CCMT0602	2601-2010	2601-3010	M2.5×8	T8
S12M-SCLCR/L06	12	9	150	16	CCMT0602	2601-2012	2601-3012	M2.5×8	T8
S16R-SCLCR/L09	16	11	200	20	CCMT09T3	2601-2014	2601-3014	M4×8	T15
S20S-SCLCR/L09	20	13	250	25	CCMT09T3	2601-2016	2601-3016	M4×10	T15
S25T-SCLCR/L12	25	17	300	32	CCMT1204	2601-2018	2601-3018	M5×12	T20
S32U-SCLCR/L12	32	22	350	40	CCMT1204	2601-2020	2601-3020	M5×12	T20
S40U-SCLCR/L12	40	27	350	50	CCMT1204	2601-2022	2601-3022	M5×12	T20
S05H-SCLCR/L2	5/16	1/4	4.0	7/16	CCMT21.51	2601-8006	2601-9006	M2.5×8	T8
S06M-SCLCR/L2	3/8	1/4	6.0	1/2	CCMT21.51	2601-8008	2601-9008	M2.5×8	T8
S08Q-SCLCR/L2	1/2	5/16	7.0	5/8	CCMT21.51	2601-8010	2601-9010	M2.5×8	T8
S10R-SCLCR/L3	5/8	13/32	8.0	13/16	CCMT32.52	2601-8012	2601-9012	M4×8	T15
S12S-SCLCR/L3	3/4	1/2	10	1	CCMT32.52	2601-8014	2601-9014	M4×10	T15
S16T-SCLCR/L4	1	.651	12	1-1/4	CCMT432	2601-8016	2601-9016	M4×12	T20
S20U-SCLCR/L4	1-1/4	7/8	14	1-1/2	CCMT432	2601-8018	2601-9018	M4×12	T20
S24U-SCLCR/L4	1-1/2	1-1/16	14	2	CCMT432	2601-8020	2601-9020	M4×12	T20

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	INSERT SCREW	WRENCH
	D	F	L	d					
A12K-SCLCR/L06	12	9	125	16	CCMT0602	2601-0001	2601-0002	M2.5×6	T8
A16M-SCLCR/L09	16	11	150	20	CCMT09T3	2601-0003	2601-0004	M4×8	T15
A20Q-SCLCR/L09	20	13	180	25	CCMT09T3	2601-0005	2601-0006	M4×8	T15
A25R-SCLCR/L12	25	17	200	32	CCMT1204	2601-0007	2601-0008	M4×10	T20
A32S-SCLCR/L12	32	22	250	40	CCMT1204	2601-0009	2601-0010	M5×12	T20
A40T-SCLCR/L12	40	27	300	50	CCMT1204	2601-0011	2601-0012	M5×12	T20
A06J-SCLCR/L2	3/8	1/4	4.5	1/2	CCMT21.51	2601-5001	2601-6001	M2.5×6	T8
A08M-SCLCR/L2	1/2	1/4	6.0	5/8	CCMT21.51	2601-5003	2601-6003	M2.5×8	T8
A10Q-SCLCR/L3	5/8	5/16	7.0	13/16	CCMT32.52	2601-5005	2601-6005	M4×8	T15
A12R-SCLCR/L3	3/4	13/32	8.0	1	CCMT32.52	2601-5007	2601-6007	M4×10	T15
A16S-SCLCR/L2	1	1/2	10	1-1/4	CCMT432	2601-5009	2601-6009	M5×12	T20
A20T-SCLCR/L2	1-1/4	.651	12	1-1/2	CCMT432	2601-5011	2601-6011	M5×12	T20
A24T-SCLCR/L3	1-1/2	7/8	12	2	CCMT432	2601-5013	2601-6013	M5×12	T20

S- SDQCR SDQCL

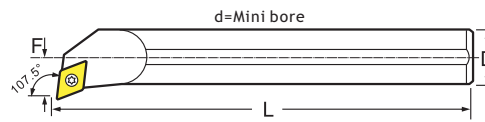
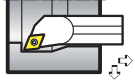


MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	INSERT SCREW	WRENCH
	D	F	L	d					
S08H-SDQCR/L07	8	6	100	11	DCMT0702	2602-0006	2602-1006	M2.5×6	T8
S10K-SDQCR/L07	10	7	125	13	DCMT0702	2602-0008	2602-1008	M2.5×6	T8
S12M-SDQCR/L07	12	9	150	16	DCMT0702	2602-0010	2602-1010	M2.5×8	T8
S16R-SDQCR/L07	16	11	200	20	DCMT0702	2602-0012	2602-1012	M2.5×8	T8
S20S-SDQCR/L11	20	13	250	25	DCMT11T3	2602-0014	2602-1014	M4×10	T15
S25T-SDQCR/L11	25	17	300	32	DCMT11T3	2602-0016	2602-1016	M4×10	T15
S32U-SDQCR/L11	32	22	350	40	DCMT11T3	2602-0018	2602-1018	M4×10	T15
S40U-SDQCR/L11	40	27	350	50	DCMT11T3	2602-0020	2602-1020	M4×10	T15
S50V-SDQCR/L11	50	35	400	63	DCMT11T3	2602-0022	2602-1022	M4×10	T15
S05H-SDQCR/L2	5/16	1/4	4.0	7/16	DCMT21.51	2602-6006	2602-7006	M2.5×6	T8
S06M-SDQCR/L2	3/8	.28	6.0	1/2	DCMT21.51	2602-6008	2602-7008	M2.5×6	T8
S08Q-SDQCR/L2	1/2	3/8	7.0	5/8	DCMT21.51	2602-6010	2602-7010	M2.5×8	T8
S10R-SDQCR/L3	5/8	7/16	8.0	3/4	DCMT32.52	2602-6012	2602-7012	M4×8	T15
S12S-SDQCR/L3	3/4	1/2	10	1	DCMT32.52	2602-6014	2602-7014	M4×10	T15
S16T-SDQCR/L3	1	.651	12	1-1/4	DCMT32.52	2602-6016	2602-7016	M4×10	T15
S20U-SDQCR/L3	1-1/4	7/8	14	1-1/2	DCMT32.52	2602-6018	2602-7018	M4×10	T15
S24U-SDQCR/L3	1-1/2	1-1/16	14	2	DCMT32.52	2602-6020	2602-7020	M4×10	T15

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	INSERT SCREW	WRENCH
	D	F	L	d					
A12K-SDQCR/L07	12	9	125	16	DCMT0702	2602-5006	2602-6006	M2.5×8	T8
A16M-SDQCR/L07	16	11	150	20	DCMT0702	2602-5008	2602-6008	M2.5×8	T8
A20Q-SDQCR/L11	20	13	180	25	DCMT11T3	2602-5010	2602-6010	M4×10	T15
A25R-SDQCR/L11	25	17	200	32	DCMT11T3	2602-5012	2602-6012	M4×10	T15
A32S-SDQCR/L11	32	22	250	40	DCMT11T3	2602-5014	2602-6014	M4×10	T15
A40T-SDQCR/L11	40	27	300	50	DCMT11T3	2602-5016	2602-6016	M4×10	T15
A06J-SDQCR/L2	3/8	1/4	4.5	1/2	DCMT21.51	2602-5051	2602-5052	M2.5×6	T8
A08M-SDQCR/L2	1/2	5/16	6.0	5/8	DCMT21.51	2602-5053	2602-5054	M2.5×8	T8
A10Q-SDQCR/L2	5/8	13/32	7.0	13/16	DCMT32.52	2602-5055	2602-5056	M2.5×8	T8
A12R-SDQCR/L3	3/4	1/2	8.0	1	DCMT32.52	2602-5057	2602-5058	M4×10	T15
A16S-SDQCR/L3	1	.651	10	1-1/4	DCMT32.52	2602-5059	2602-5060	M4×10	T15

Boring Bar Tools Holders

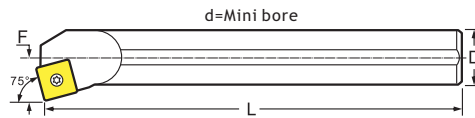
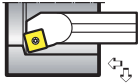
S-SCLCR SCLCL



MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	INSERT SCREW	WRENCH
	D	F	L	d					
S08H-SDUCR/L07	8	6	100	11	DCMT0702	2603-0006	2603-1006	M2.5×6	T8
S10K-SDUCR/L07	10	7	125	13	DCMT0702	2603-0008	2603-1008	M2.5×6	T8
S12M-SDUCR/L07	12	9	150	16	DCMT0702	2603-0010	2603-1010	M2.5×8	T8
S16R-SDUCR/L07	16	11	200	20	DCMT0702	2603-0012	2603-1012	M2.5×8	T8
S20S-SDUCR/L11	20	13	250	25	DCMT11T3	2603-0014	2603-1014	M4×10	T15
S25T-SDUCR/L11	25	17	300	32	DCMT11T3	2603-0016	2603-1016	M4×10	T15
S32U-SDUCR/L11	32	22	350	40	DCMT11T3	2603-0018	2603-1018	M4×10	T15
S40U-SDUCR/L11	40	27	350	50	DCMT11T3	2603-0020	2603-1020	M4×10	T15
S50V-SDUCR/L11	50	35	400	63	DCMT11T3	2603-0022	2603-1022	M4×10	T15
S05H-SDUCR/L2	5/16	1/4	4.0	7/16	DCMT21.51	2603-6006	2603-7006	M2.5×6	T8
S06M-SDUCR/L2	3/8	.28	6.0	1/2	DCMT21.51	2603-6008	2603-7008	M2.5×6	T8
S08Q-SDUCR/L2	1/2	3/8	7.0	5/8	DCMT21.51	2603-6010	2603-7010	M2.5×8	T8
S10R-SDUCR/L3	5/8	7/16	8.0	3/4	DCMT32.52	2603-6012	2603-7012	M4×8	T15
S12S-SDUCR/L3	3/4	1/2	10	1	DCMT32.52	2603-6014	2603-7014	M4×10	T15
S16T-SDUCR/L3	1	.651	12	1-1/4	DCMT32.52	2603-6016	2603-7016	M4×10	T15
S20U-SDUCR/L3	1-1/4	7/8	14	1-1/2	DCMT32.52	2603-6018	2603-7018	M4×10	T15
S24U-SDUCR/L3	1-1/2	1-1/16	14	2	DCMT32.52	2603-6020	2603-7020	M4×10	T15

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	INSERT SCREW	WRENCH
	D	F	L	d					
A12K-SDUCR/L07	12	9	125	16	DCMT0702	2603-5006	2603-6006	M2.5×8	T8
A16M-SDUCR/L07	16	11	150	20	DCMT0702	2603-5008	2603-6008	M2.5×8	T8
A20Q-SDUCR/L11	20	13	180	25	DCMT11T3	2603-5010	2603-6010	M4×10	T15
A25R-SDUCR/L11	25	17	200	32	DCMT11T3	2603-5012	2603-6012	M4×10	T15
A32S-SDUCR/L11	32	22	250	40	DCMT11T3	2603-5014	2603-6014	M4×10	T15
A40T-SDUCR/L11	40	27	300	50	DCMT11T3	2603-5016	2603-6016	M4×10	T15
A06J-SDUCR/L2	3/8	1/4	4.5	1/2	DCMT21.51	2603-5051	2603-5052	M2.5×6	T8
A08M-SDUCR/L2	1/2	5/16	6.0	5/8	DCMT21.51	2603-5053	2603-5054	M2.5×8	T8
A10Q-SDUCR/L2	5/8	13/32	7.0	13/16	DCMT32.52	2603-5055	2603-5056	M2.5×8	T8
A12R-SDUCR/L3	3/4	1/2	8.0	1	DCMT32.52	2603-5057	2603-5058	M4×10	T15
A16S-SDUCR/L3	1	.651	10	1-1/4	DCMT32.52	2603-5059	2603-5060	M4×10	T15

S- SSKCR SSKCL

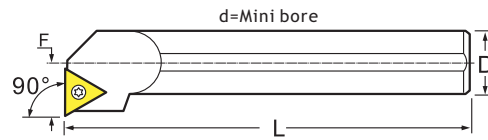


MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	INSERT SCREW	WRENCH
	D	F	L	d					
S16R-SSKCR/L09	16	11	200	20	SCMT09T3	2604-2008	2604-3008	M4×8	T15
S20S-SSKCR/L09	20	13	250	25	SCMT09T3	2604-2010	2604-3010	M4×10	T15
S25T-SSKCR/L12	25	17	300	32	SCMT1204	2604-2012	2604-3012	M5×12	T20
S32U-SSKCR/L12	32	22	350	40	SCMT1204	2604-2014	2604-3014	M5×12	T20
S40U-SSKCR/L12	40	27	350	50	SCMT1204	2604-2016	2604-3016	M5×12	T20
S10R-SSKCR/L3	5/8	13/32	8	3/4	SCMT32.52	2604-8008	2604-9008	M4×8	T15
S12S-SSKCR/L3	3/4	1/2	10	1	SCMT32.52	2604-8010	2604-9010	M4×10	T15
S16T-SSKCR/L4	1	.651	12	1.25	SCMT432	2604-8012	2604-9012	M5×12	T20
S20U-SSKCR/L4	1-1/4	7/8	14	1.5	SCMT432	2604-8014	2604-9014	M5×12	T20
S24U-SSKCR/L4	1-1/2	1-1/16	14	2	SCMT432	2604-8016	2604-9016	M5×12	T20

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	INSERT SCREW	WRENCH
	D	F	L	d					
A16M-SSKCR/L09	16	11	150	20	SCMT0602	2604-0001	2604-0002	M2.5×6	T8
A20Q-SSKCR/L09	20	13	180	25	SCMT09T3	2604-0003	2604-0004	M4×8	T15
A25R-SSKCR/L12	25	17	200	32	SCMT09T3	2604-0005	2604-0006	M4×8	T15
A32S-SSKCR/L12	32	22	250	40	SCMT1204	2604-0007	2604-0008	M4×10	T20
A40T-SSKCR/L12	40	27	300	50	SCMT1204	2604-0009	2604-0010	M5×12	T20
A10Q-SSKCR/L3	5/8	13/32	7	3/4	CCMT32.52	2604-0011	2604-0012	M4×8	T15
A12R-SSKCR/L3	3/4	1/2	8	1	CCMT32.52	2604-0013	2604-0014	M4×10	T15
A16S-SSKCR/L4	1	.651	10	1-1/4	CCMT432	2604-0015	2604-0016	M5×12	T20
A20T-SSKCR/L4	1-1/4	7/8	12	1-1/2	CCMT432	2604-0017	2604-0018	M5×12	T20
A24T-SSKCR/L4	1-1/2	1-1/16	12	2	CCMT432	2604-0019	2604-0020	M5×12	T20

Boring Bar Tools Holders

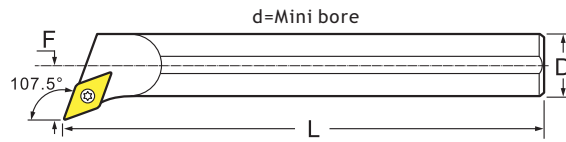
S-STFCR STFCL



MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	INSERT SCREW	WRENCH
	D	F	L	d					
S08H-STFCR/L11	8	6	100	11	TCMT1102	2605-2006	2605-3006	M2.5×6	T6
S10K-STFCR/L11	10	7	125	13	TCMT1102	2605-2008	2605-3008	M2.5×6	T8
S12M-STFCR/L11	12	9	150	16	TCMT1102	2605-2010	2605-3010	M2.5×6	T8
S16R-STFCR/L11	16	11	200	20	TCMT1102	2605-2012	2605-3012	M2.5×6	T8
S20S-STFCR/L16	20	13	250	25	TCMT16T3	2605-2014	2605-3014	M4×10	T15
S25T-STFCR/L16	25	17	300	32	TCMT16T3	2605-2016	2605-3016	M4×10	T15
S32U-STFCR/L16	32	22	350	40	TCMT16T3	2605-2018	2605-3018	M4×10	T15
S40U-STFCR/L16	40	27	350	50	TCMT16T3	2605-2020	2605-3020	M4×10	T15
S06M-STFCR/L2	3/8	1/4	6	1/2	TCMT21.51	2605-8008	2605-9008	M2.5×6	T8
S08Q-STFCR/L2	1/2	5/16	7	5/8	TCMT21.51	2605-8010	2605-9010	M2.5×8	T8
S10R-STFCR/L2	5/8	13/32	8	13/16	TCMT21.51	2605-8012	2605-9012	M2.5×8	T8
S12S-STFCR/L3	3/4	1/2	10	1	TCMT32.52	2605-8014	2605-9014	M4×10	T15
S16T-STFCR/L3	1	.651	12	1-1/4	TCMT32.52	2605-8016	2605-9016	M4×10	T15
S20U-STFCR/L3	1-1/4	7/8	14	1-1/2	TCMT32.52	2605-8018	2605-9018	M4×10	T15
S24U-STFCR/L3	1-1/2	1-1/16	14	2	TCMT32.52	2605-8020	2605-9020	M4×10	T15

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	INSERT SCREW	WRENCH
	D	F	L	d					
A12K-STFCR/L11	12	9	125	16	TCMT1102	2605-5001	2605-5002	M2.5×6	T8
A16M-STFCR/L11	16	11	150	20	TCMT1102	2605-5003	2605-5004	M2.5×6	T8
A20Q-STFCR/L161	20	13	180	25	TCMT16T3	2605-5005	2605-5006	M4×10	T15
A25R-STFCR/L16	25	17	200	32	TCMT16T3	2605-5007	2605-5008	M4×10	T15
A32S-STFCR/L16	32	22	250	40	TCMT16T3	2605-5009	2605-5010	M4×10	T15
A40T-STFCR/L16	40	27	300	50	TCMT16T3	2605-5012	2605-5012	M4×10	T15
A06J-STFCR/L2	3/8	1/4	4.5	1/2	TCMT21.51	2605-5013	2605-5012	M2.5×6	T8
A08M-STFCR/L2	1/2	5/16	6	5/8	TCMT21.51	2605-5015	2605-5014	M2.5×6	T8
A10Q-STFCR/L2	5/8	13/32	7	13/16	TCMT21.51	2605-5017	2605-5016	M2.5×6	T8
A12R-STFCR/L3	3/4	1/2	8	1	TCMT32.52	2605-5019	2605-5018	M4×10	T15
A16S-STFCR/L3	1	.651	10	1-1/4	TCMT32.52	2605-5021	2605-5020	M4×10	T15
A20T-STFCR/L3	1-1/4	7/8	12	1-1/2	TCMT32.52	2605-5023	2605-5022	M4×10	T15
A24T-STFCR/L3	1-1/2	1-1/16	12	2	TCMT32.52	2605-5025	2605-5024	M4×10	T15

S- SVQBR SVQBL

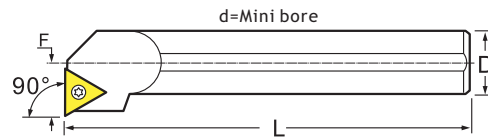


MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	INSERT SCREW	WRENCH
	D	F	L	d					
S16R-SVQBR/L11	16	11	200	20	VBMT1102	2606-0008	2606-1008	M2.5×8	T8
S20S-SVQBR/L11	20	13	250	25	VBMT1102	2606-0010	2606-1010	M2.5×8	T8
S25T-SVQBR/L11	25	17	300	32	VBMT1102	2606-0012	2606-1012	M2.5×8	T8
S25T-SVQBR/L16	25	17	300	32	VBMT1604	2606-0014	2606-1014	M4×10	T15
S32U-SVQBR/L16	32	22	350	40	VBMT1604	2606-0016	2606-1016	M4×10	T15
S40U-SVQBR/L16	40	27	350	50	VBMT1604	2606-0018	2606-1018	M4×10	T15
S10R-SVQBR/L2	5/8	13/32	8	13/16	VBMT21.51	2606-6014	2606-7014	M2.5×8	T8
S12S-SVQBR/L2	3/4	1/2	10	1	VBMT21.51	2606-6016	2606-7016	M2.5×8	T8
S16T-SVQBR/L2	1	.651	12	1-1/4	VBMT21.51	2606-6018	2606-7018	M2.5×8	T8
S16T-SVQBR/L3	1	.651	12	1-1/4	VBMT332	2606-6020	2606-7020	M4×10	T15
S20U-SVQBR/L3	1-1/4	7/8	14	1-1/2	VBMT332	2606-6022	2606-7022	M4×10	T15
S24U-SVQBR/L3	1-1/2	1-1/16	14	2	VBMT332	2606-6024	2606-7024	M4×10	T15

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	INSERT SCREW	WRENCH
	D	F	L	d					
A16M-SVQBR/L11	16	11	150	20	VBMT1102	2606-5001	2606-5002	M2.5×8	T8
A20Q-SVQBR/L11	20	13	180	25	VBMT1102	2606-5003	2606-5004	M2.5×8	T8
A25R-SVQBR/L11	25	17	200	32	VBMT1102	2606-5005	2606-5006	M2.5×8	T8
A25R-SVQBR/L16	25	17	200	32	VBMT1604	2606-5007	2606-5008	M4×10	T15
A32S-SVQBR/L16	32	22	250	40	VBMT1604	2606-5009	2606-5010	M4×10	T15
A40T-SVQBR/L16	40	27	300	50	VBMT1604	2606-5011	2606-5012	M4×10	T15
A10Q-SVQBR/L2	5/8	13/32	7	13/16	VBMT21.51	2606-5013	2606-5014	M2.5×8	T8
A12R-SVQBR/L2	3/4	1/2	8	1	VBMT21.51	2606-5015	2606-5016	M2.5×8	T8
A16S-SVQBR/L2	1	.651	10	1-1/4	VBMT21.51	2606-5017	2606-5018	M2.5×8	T8
A16S-SVQBR/L3	1	.651	10	1-1/4	VBMT332	2606-5019	2606-5020	M4×10	T15
A20T-SVQBR/L3	1-1/4	7/8	12	1-1/2	VBMT332	2606-5021	2606-5022	M4×10	T15
A24T-SVQBR/L3	1-1/2	1-1/16	12	2	VBMT332	2606-5023	2606-5024	M4×10	T15

Boring Bar Tools Holders

S-STFCR STFCL

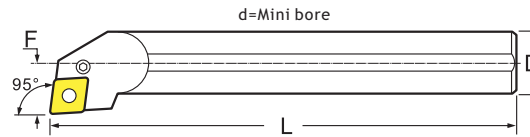
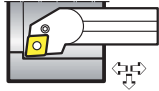


MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	INSERT SCREW	WRENCH
	D	F	L	d					
S08H-STFCR/L11	8	6	100	11	TCMT1102	2605-2006	2605-3006	M2.5×6	T6
S10K-STFCR/L11	10	7	125	13	TCMT1102	2605-2008	2605-3008	M2.5×6	T8
S12M-STFCR/L11	12	9	150	16	TCMT1102	2605-2010	2605-3010	M2.5×6	T8
S16R-STFCR/L11	16	11	200	20	TCMT1102	2605-2012	2605-3012	M2.5×6	T8
S20S-STFCR/L16	20	13	250	25	TCMT16T3	2605-2014	2605-3014	M4×10	T15
S25T-STFCR/L16	25	17	300	32	TCMT16T3	2605-2016	2605-3016	M4×10	T15
S32U-STFCR/L16	32	22	350	40	TCMT16T3	2605-2018	2605-3018	M4×10	T15
S40U-STFCR/L16	40	27	350	50	TCMT16T3	2605-2020	2605-3020	M4×10	T15
S06M-STFCR/L2	3/8	1/4	6	1/2	TCMT21.51	2605-8008	2605-9008	M2.5×6	T8
S08Q-STFCR/L2	1/2	5/16	7	5/8	TCMT21.51	2605-8010	2605-9010	M2.5×8	T8
S10R-STFCR/L2	5/8	13/32	8	13/16	TCMT21.51	2605-8012	2605-9012	M2.5×8	T8
S12S-STFCR/L3	3/4	1/2	10	1	TCMT32.52	2605-8014	2605-9014	M4×10	T15
S16T-STFCR/L3	1	.651	12	1-1/4	TCMT32.52	2605-8016	2605-9016	M4×10	T15
S20U-STFCR/L3	1-1/4	7/8	14	1-1/2	TCMT32.52	2605-8018	2605-9018	M4×10	T15
S24U-STFCR/L3	1-1/2	1-1/16	14	2	TCMT32.52	2605-8020	2605-9020	M4×10	T15

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	INSERT SCREW	WRENCH
	D	F	L	d					
A12K-STFCR/L11	12	9	125	16	TCMT1102	2605-5001	2605-5002	M2.5×6	T8
A16M-STFCR/L11	16	11	150	20	TCMT1102	2605-5003	2605-5004	M2.5×6	T8
A20Q-STFCR/L161	20	13	180	25	TCMT16T3	2605-5005	2605-5006	M4×10	T15
A25R-STFCR/L16	25	17	200	32	TCMT16T3	2605-5007	2605-5008	M4×10	T15
A32S-STFCR/L16	32	22	250	40	TCMT16T3	2605-5009	2605-5010	M4×10	T15
A40T-STFCR/L16	40	27	300	50	TCMT16T3	2605-5012	2605-5012	M4×10	T15
A06J-STFCR/L2	3/8	1/4	4.5	1/2	TCMT21.51	2605-5013	2605-5012	M2.5×6	T8
A08M-STFCR/L2	1/2	5/16	6	5/8	TCMT21.51	2605-5015	2605-5014	M2.5×6	T8
A10Q-STFCR/L2	5/8	13/32	7	13/16	TCMT21.51	2605-5017	2605-5016	M2.5×6	T8
A12R-STFCR/L3	3/4	1/2	8	1	TCMT32.52	2605-5019	2605-5018	M4×10	T15
A16S-STFCR/L3	1	.651	10	1-1/4	TCMT32.52	2605-5021	2605-5020	M4×10	T15
A20T-STFCR/L3	1-1/4	7/8	12	1-1/2	TCMT32.52	2605-5023	2605-5022	M4×10	T15
A24T-STFCR/L3	1-1/2	1-1/16	12	2	TCMT32.52	2605-5025	2605-5024	M4×10	T15

Boring Bar Tools Holders

S- PCLNR PCLNL

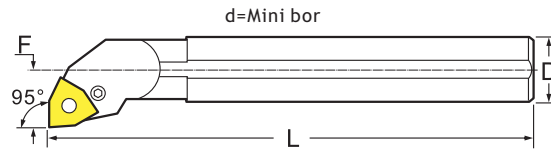
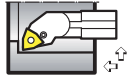


MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM SCREW	CLAMP	CLAMP SCREW	HEXKEY
	D	F	L	d								
S16R-PCLNR/L09	16	11	200	20	CNMG0903	2640-0008	2640-1008			NG0310A	LGL0613	S3
S20S-PCLNR/L12	20	13	250	25	CNMG1204	2640-0010	2640-1010			NG0514W	NGL0817	S4
S25T-PCLNR/L12	25	17	300	32	CNMG1204	2640-0012	2640-1012			NG0514W	NGL0817	S4
S32U-PCLNR/L12	32	22	350	40	CNMG1204	2640-0014	2640-1014	C12A	GH0607	G0514W	GL0820	S4
S40U-PCLNR/L12	40	27	350	50	CNMG1204	2640-0016	2640-1016	C12A	GH0607	G0514W	NGL0817	S4
S50V-PCLNR/L12	50	35	400	64	CNMG1204	2640-0018	2640-1018	C12A	GH0607	G0514W	NGL0817	S4
S32U-PCLNR/L16	32	22	350	40	CNMG1606	2640-0020	2640-1020	C16A	GH0709	NG0616W	GL0820	S4
S40U-PCLNR/L16	40	27	350	50	CNMG1606	2640-0022	2640-1022	C16A	GH0709	G0616W	GL0826	S4
S50V-PCLNR/L16	50	35	400	53	CNMG1606	2640-0024	2640-1024	C16A	GH0709	G0616W	GL0826	S4
S10R-PCLNR/L3	5/8	13/32	8	13/16	CNMG322	2640-2008	2640-3008			NG0310A	LGL0613	S3
S12S-PCLNR/L4	3/4	1/2	10	1	CNMG432	2640-2010	2640-3010			NG0514W	NGL0817	S4
S16T-PCLNR/L4	1	.651	12	1-1/4	CNMG432	2640-2012	2640-3012			NG0514W	NGL0817	S4
S20U-PCLNR/L4	1-1/4	7/8	14	1-1/2	CNMG432	2640-2014	2640-3014	C12A	GH0607	G0514W	GL0820	S4
S24U-PCLNR/L4	1-1/2	1-1/16	14	2	CNMG432	2640-2016	2640-3016	C12A	GH0607	G0514W	GL0822	S4
S20U-PCLNR/L5	1-1/4	7/8	14	1-1/2	CNMG543	2640-2018	2640-3018	C16A	GH0709	NG0616W	GL0820	S4
S24U-PCLNR/L5	1-1/2	1-1/16	14	2	CNMG543	2640-2020	2640-3020	C16A	GH0709	G0616W	GL0826	S4

MODEL	D	DIMENSIONS			INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM SCREW	CLAMP	CLAMP SCREW	HEXKEY
		F	L	d								
A16M-PCLNR/L09	16	11	150	20	CNMG0903	2640-5001	2640-5002			NG0310A	LGL0613	S3
A20Q-PCLNR/L12	20	13	180	25	CNMG1204	2640-5003	2640-5004			NG0514W	NGL0817	S4
A25R-PCLNR/L12	25	17	200	32	CNMG1204	2640-5005	2640-5006			NG0514W	NGL0817	S4
A32S-PCLNR/L12	32	22	250	40	CNMG1204	2640-5007	2640-5008	C12A	GH0607	G0514W	GL0820	S4
A40T-PCLNR/L12	40	27	300	50	CNMG1204	2640-5009	2640-5010	C12A	GH0607	G0514W	GL0822	S4
A32S-PCLNR/L16	32	22	250	40	CNMG1606	2640-5011	2640-5012	C16A	GH0709	G0616W	GL0826	S4
A40T-PCLNR/L16	40	27	300	50	CNMG1606	2640-5013	2640-5014	C16A	GH0709	G0616W	GL0826	S4
A10Q-PCLNR/L3	5/8	13/32	7	13/16	CNMG322	2640-5015	2640-5016			NG0310A	LGL0613	S3
A12R-PCLNR/L4	3/4	1/2	8	1	CNMG432	2640-5017	2640-5018			NG0514W	NGL0817	S4
A16S-PCLNR/L4	1	.651	10	1-1/4	CNMG432	2640-5019	2640-5020			NG0514W	NGL0817	S4
A20T-PCLNR/L4	1-1/4	7/8	12	1-1/2	CNMG432	2640-5021	2640-5022	C12A	GH0607	G0514W	GL0820	S4
A24T-PCLNR/L4	1-1/2	1-1/16	12	2	CNMG432	2640-5023	2640-5024	C12A	GH0607	G0514W	GL0822	S4

Boring Bar Tools Holders

S-PWLNRL PWLNL

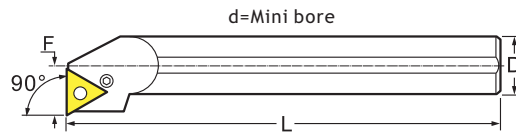
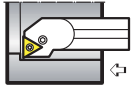


MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	 SHIM	 SHIM SCREW	 CLAMP	 CLAMP SCREW	 HEXKEY
	D	F	L	d								
S20S-PWLNRL/L08	20	13	250	22	WNM 0804	2645-0010	2645-1010			NG0514W	NGL0817	S4
S25T-PWLNRL/L08	25	17	300	27	WNM 0804	2645-0012	2645-1012			NG0514W	NGL0817	S4
S32U-PWLNRL/L08	32	22	350	33	WNM 0804	2645-0014	2645-1014	W08A	GH0607	NG0514W	NGL0817	S4
S40U-PWLNRL/L08	40	27	350	33	WNM 0804	2645-0016	2645-1016	W08A	GH0607	NG0514W	NGL0817	S4
S50V-PWLNRL/L08	50	35	400	40	WNM 0804	2645-0018	2645-1018	W08A	GH0607	NG0514W	NGL0817	S4
S12S-PWLNRL/L4	3/4	1/2	10	1	WNM 322	2645-2010	2645-3010			NG0514W	NGL0817	S4
S16T-PWLNRL/L4	1	.651	12	1-1/4	WNM 432	2645-2012	2645-3012			NG0514W	NGL0817	S4
S20U-PWLNRL/L4	1-1/4	7/8	14	1-1/2	WNM 432	2645-2014	2645-3013	W08A	GH0607	NG0514W	NGL0820	S4
S24U-PWLNRL/L4	1-1/2	1-1/16	14	2	WNM 432	2645-2016	2645-3016	W08A	GH0607	NG0514W	NGL0822	S4

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	 SHIM	 SHIM SCREW	 CLAMP	 CLAMP SCREW	 HEXKEY
	D	F	L	d								
A20Q-PWLNRL/L08	20	13	180	25	WNM 0804	2645-5001	2645-5002			NG0514W	NGL0817	S4
A25R-PWLNRL/L08	25	17	200	32	WNM 0804	2645-5003	2645-5004			NG0514W	NGL0817	S4
A32S-PWLNRL/L08	32	22	250	40	WNM 0804	2645-5005	2645-5006	W08A	GH0607	NG0514W	NGL0817	S4
A40T-PWLNRL/L08	40	27	300	50	WNM 0804	2645-5007	2645-5008	W08A	GH0607	NG0514W	NGL0817	S4
A50T-PWLNRL/L08	50	35	300	63	WNM 0804	2645-5009	2645-5010	W08A	GH0607	NG0514W	NGL0817	S4
A12R-PWLNRL/L4	3/4	1/2	8	1	WNM 432	2645-5011	2645-5012			NG0514W	NGL0817	S4
A16S-PWLNRL/L4	1	.651	10	1-1/4	WNM 432	2645-5013	2645-5014			NG0514W	NGL0817	S4
A20T-PWLNRL/L4	1-1/4	7/8	12	1-1/2	WNM 432	2645-5015	2645-5016	W08A	GH0607	NG0514W	NGL0820	S4
A24T-PWLNRL/L4	1-1/2	1-1/16	12	2	WNM 432	2645-5017	2645-5018	W08A	GH0607	NG0514W	NGL0822	S4

Boring Bar Tools Holders

S- PTFNR PTFNL

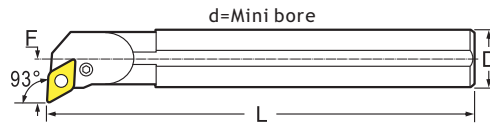
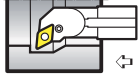


MODEL	D	F	L	d	INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM SCREW	CLAMP	CLAMP SCREW	HEXKEY
S20S-PTFNR/L16	20	13	250	25	TNM 1604	2644-0010	2644-1010			NG0310A	LGL0613	S3
S25T-PTFNR/L16	25	17	300	32	TNM 1604	2644-0012	2644-1012			NG0310A	LGL0613	S3
S32U-PTFNR/L16	32	22	350	40	TNM 1604	2644-0014	2644-1014	T16A	GH0405	G0310W	G0310W	S3
S40U-PTFNR/L16	40	27	350	50	TNM 1604	2644-0016	2644-1016	T16A	GH0405	G0310W	G0310W	S3
S50V-PTFNR/L16	50	35	400	63	TNM 1604	2644-0018	2644-1018	T16A	GH0405	G0310W	G0310W	S3
S12S-PTFNR/L3	3/4	.509	10	1	TNM 322	2644-2008	2644-3008			NG0310A	LGL0613	S3
S16T-PTFNR/L3	1	.651	12	1-1/4	TNM 332	2644-2010	2644-3010			NG0310A	LGL0613	S3
S20U-PTFNR/L3	1-1/4	7/8	14	1-1/2	TNM 332	2644-2012	2644-3012	T16A	GH0709	G0310W	NGL0617	S3
S24U-PTFNR/L3	1-1/2	1-1/16	14	2	TNM 332	2644-2014	2644-3014	T16A	GH0709	G0310W	GL0620	S3

MODEL	D	F	L	d	INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM SCREW	CLAMP	CLAMP SCREW	HEXKEY
A16M-PTFNR/L09	16	13	180	25	TNM 1604	2640-5001	2640-5002			NG0310A	LGL0613	S3
A20Q-PTFNR/L12	20	17	200	32	TNM 1604	2640-5003	2640-5004			NG0310A	LGL0613	S3
A25R-PTFNR/L12	25	22	250	40	TNM 1604	2640-5005	2640-5006	T16A	GH0607	G0310W	NGL0617	S3
A32S-PTFNR/L12	32	27	300	50	TNM 1604	2640-5007	2640-5008	T16A	GH0709	G0310W	GL0620	S3
A40T-PTFNR/L12	40	35	300	63	TNM 1604	2640-5009	2640-5010	T16A	GH0709	G0310W	GL0620	S3
A12R-PTFNR/L3	3/4	.509	8	1	TNM 322	2640-5015	2640-5016			NG0310A	LGL0613	S3
A16S-PTFNR/L4	1	.651	10	1-1/4	TNM 432	2640-5017	2640-5018			NG0310A	LGL0613	S3
A20T-PTFNR/L4	1-1/3	7/8	12	1-1/2	TNM 432	2640-5019	2640-5020	T16A	GH0607	G0310W	NGL0617	S3
A24T-PTFNR/L4	1-1/2	1-1/16	12	2	TNM 432	2640-5021	2640-5022	T16A	GH0607	G0310W	GL0620	S3

Boring Bar Tools Holders

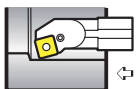
S-PDUNR PDUNL



MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM SCREW	CLAMP	CLAMP SCREW	HEXKEY
	D	F	L	d								
S25T-PDUNR/L15	25	17	300	32	DNM 1506	2642-0010	2642-1010			NG0517W	GL0820	S4
S32U-PDUNR/L15	32	22	350	40	DNM 1506	2642-0012	2642-1012	D15A	GH0607	G0517W	GL0826	S4
S40U-PDUNR/L15	40	27	350	50	DNM 1506	2642-0014	2642-1014	D15A	GH0607	G0517W	GL0826	S4
S50V-PDUNR/L15	50	35	400	63	DNM 1506	2642-0016	2642-1016	D15A	GH0607	G0517W	GL0826	S4
S16T-PDUNR/L4	1	.651	12	1-1/4	DNM 442	2642-2010	2642-3010			NG0517W	NGL0820	S4
S20U-PDUNR/L4	1-1/4	7/8	14	1-1/2	DNM 442	2642-2012	2642-3012	D15A	GH0607	G0517W	NGL0822	S4
S24U-PDUNR/L4	1-1/2	1-1/16	14	2	DNM 442	2642-2014	2642-3013	D15A	GH0607	G0517W	NGL0826	S4

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM SCREW	CLAMP	CLAMP SCREW	HEXKEY
	D	F	L	d								
A25R-PDUNR/L15	25	17	200	32	DNM 1506	2642-5001	2642-5002			NG0517W	GL0820	S4
A32S-PDUNR/L15	32	22	250	40	DNM 1506	2642-5003	2642-5004	D15A	GH0607	G0517W	GL0822	S4
A40T-PDUNR/L15	40	27	300	50	DNM 1506	2642-5005	2642-5006	D15A	GH0607	G0517W	GL0826	S4
A50T-PDUNR/L15	50	35	300	63	DNM 1506	2642-5007	2642-5008	D15A	GH0607	G0517W	GL0826	S4
A16S-PDUNR/L4	1	.651	10	1-1/4	DNM 442	2642-5013	2642-5014			G0517W	GL0820	S4
A20T-PDUNR/L4	1-1/4	7/8	12	1-1/2	DNM 442	2642-5015	2642-5016	D15A	GH0607	G0517W	GL0822	S4
A24T-PDUNR/L4	1-1/2	1-1/16	12	2	DNM 442	2642-5017	2642-5018	D15A	GH0607	G0517W	GL0826	S4

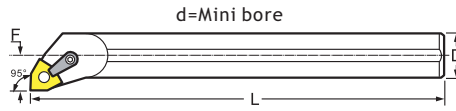
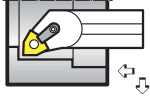
S-PSKNR PSKNL



MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM SCREW	CLAMP	CLAMP SCREW	HEXKEY
	D	F	L	d								
S25T-PSKNR/L12	25	17	300	32	SNM 1204	2643-0010	2643-1010			NG0514W	NGL0817	S4
S32U-PSKNR/L12	32	22	350	40	SNM 1204	2643-0012	2643-1012	S12A	GH0607	G0514W	GL0820	S4
S40U-PSKNR/L12	40	27	350	50	SNM 1204	2643-0014	2643-1014	S12A	GH0607	G0514W	GL0822	S4
S50V-PSKNR/L12	50	35	400	63	SNM 1204	2643-0016	2643-1016	S12A	GH0607	G0514W	GL0822	S4
S32U-PSKNR/L15	32	22	350	40	SNM 1506	2643-0018	2643-1018	S15A	GH0709	G0616W	GL0820	S4
S40U-PSKNR/L15	40	27	350	50	SNM 1506	2643-0020	2643-1020	S15A	GH0709	G0616W	GL0826	S4
S50V-PSKNR/L15	50	35	400	63	SNM 1506	2643-0022	2643-1022	S15A	GH0709	G0616W	GL0826	S4
S16T-PSKNR/L4	1	.651	12	1-1/4	CNM 432	2643-2008	2643-3008			NG0514W	NGL0817	S4
S20U-PSKNR/L4	1-1/4	7/8	14	1-1/2	CNM 432	2643-2010	2643-3010	S12A	GH0607	G0514W	GL0820	S4
S24U-PSKNR/L4	1-1/2	1-1/16	14	2	CNM 432	2643-2012	2643-3012	S12A	GH0607	G0514W	GL0822	S4
S20U-PSKNR/L5	1-1/4	7/8	14	1-1/2	CNM 542	2643-2014	2643-3014	S15A	GH0709	G0616W	GL0820	S4
S24U-PSKNR/L5	1-1/2	1-1/16	14	2	CNM 542	2643-2016	2643-3016	S15A	GH0709	G0616W	GL0826	S4

Boring Bar Tools Holders

S- MWLNR MWLNL



MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM PIN	CLAMP	CLAMP SCREW	HEXKEY
S20S-MWLNR / L08	20	13	250	25	WNM 0804	2617-0020	2613-1020		NL-0611	CL-20	XNS-0620	S2.5 S3
S25T-MWLNR / L08	25	17	300	32	WNM 0804	2617-0022	2613-1022	W0803B	NL-0617	CL-20	XNS-0620	S2.5 S3
S32U-MWLNR / L08	32	22	350	40	WNM 0804	2617-0024	2613-1024	W0803B	NL-0617	CL-20	XNS-0620	S2.5 S3
S40U-MWLNR / L08	40	27	350	50	WNM 0804	2617-0026	2613-1026	W0803B	NL-0617	CL-20	XNS-0620	S2.5 S3
S50V-MWLNR / L08	50	35	400	63	WNM 0804	2617-0028	2613-1028	W0803B	NL-0617	CL-20	XNS-0620	S2.5 S3
S12S-MWLNR / L4	3/4	1/2	10	1	CNM 432	2617-2012	2617-3012		NL-0611	CL-20	XNS-0620	S2.5 S3
S16T-MWLNR / L4	1	.651	12	1-1/4	CNM 432	2617-2014	2617-3014		NL-0611	CL-20	XNS-0620	S2.5 S3
S20U-MWLNR / L4	1-1/4	7/8	14	1-1/2	CNM 432	2617-2016	2617-3016	W0803B	NL-0617	CL-20	XNS-0620	S2.5 S3
S24U-MWLNR / L4	1-1/2	1-1/16	14	2	CNM 432	2617-2018	2617-3018	W0803B	NL-0617	CL-20	XNS-0620	S2.5 S3

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM SCREW	CLAMP	CLAMP SCREW	HEXKEY
A20Q-MW LNR / L08	20	13	180	25	WNM 0804	2617-5001	2617-6002		NL-0611	CL-20	XNS-0620	S2.5 S3
A25R-MWLNR / L08	25	17	200	32	WNM 0804	2617-5003	2617-6004	W0803B	NL-0617	CL-20	XNS-0620	S2.5 S3
A32S-MWLNR / L08	32	22	250	40	WNM 0804	2617-5005	2617-6006	W0803B	NL-0617	CL-20	XNS-0620	S2.5 S3
A40T-MWLNR / L08	40	27	300	50	WNM 0804	2617-5007	2617-6008	W0803B	NL-0617	CL-20	XNS-0620	S2.5 S3
A50T-MWLNR / L08	50	35	300	63	WNM 0804	2617-5009	2617-6010	W0803B	NL-0617	CL-20	XNS-0620	S2.5 S3
A12R-MWLNR / L4	3/4	1/2	8	1	CNM 432	2617-5011	2617-6012		NL-0611	CL-20	XNS-0620	S2.5 S3
A16S-MWLNR / L4	1	.651	10	1-1/4	CNM 432	2617-5013	2617-6014		NL-0611	CL-20	XNS-0620	S2.5 S3
A20T-MWLNR / L4	1-1/4	7/8	12	1-1/2	CNM 432	2617-5015	2617-6016	W0803B	NL-0617	CL-20	XNS-0620	S2.5 S3
A24T-MWLNR / L4	1-1/2	1-1/16	12	2	CNM 432	2617-5017	2617-6018	W0803B	NL-0617	CL-20	XNS-0620	S2.5 S3

Boring Bar Tools Holders

S-MCLNR MCLNL

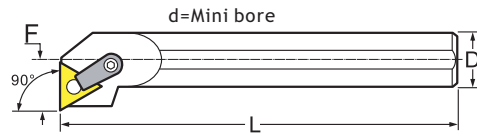


MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	 SHIM	 SHIM PIN	 CLAMP	 CLAMP SCREW	 HEXKEY
	D	F	L	d								
S20S-MCLNR/L12	20	13	250	25	CNM 1204	2613-0010	2613-1010		NL-0611	CL-6	XNS-0520	S2.5
S25T-MCLNR/L12	25	17	300	32	CNM 1204	2613-0012	2613-1012	C1203B	NL-0611	CL-6	XNS-0520	S2.5
S32U-MCLNR/L12	32	22	350	40	CNM 1204	2613-0014	2613-1014	C1203B	NL-0617	CL-6	XNS-0520	S2.5
S40U-MCLNR/L12	40	27	350	50	CNM 1204	2613-0016	2613-1016	C1203B	NL-0617	CL-6	XNS-0520	S2.5
S50V-MCLNR/L12	50	35	400	63	CNM 1204	2613-0018	2613-1018	C1203B	NL-0617	CL-6	XNS-0520	S2.5
S32U-MCLNR/L16	32	22	350	40	CNM 1606	2613-0020	2613-1020	C1604B	NL-0822	CL-12	XNS-0829	S3 S4
S40U-MCLNR/L16	40	27	350	50	CNM 1606	2613-0022	2613-1022	C1604B	NL-0822	CL-12	XNS-0829	S3 S4
S50V-MCLNR/L16	50	35	400	63	CNM 1606	2613-0024	2613-1024	C1604B	NL-0822	CL-12	XNS-0829	S3 S4
S12S-MCLNR/L4	3/4	1/2	10	1	CNM 432	2613-2008	2613-3008	C1203B	NL-0611	CL-6	XNS-0520	S2.5
S16T-MCLNR/L4	1	.651	12	1-1/4	CNM 432	2613-2010	2613-3010	C1203B	NL-0611	CL-6	XNS-0520	S2.5
S20U-MCLNR/L4	1-1/4	7/8	14	1-1/2	CNM 432	2613-2012	2613-3012	C1203B	NL-0617	CL-6	XNS-0520	S2.5
S24U-MCLNR/L4	1-1/2	1-1/16	14	2	CNM 432	2613-2014	2613-3014	C1203B	NL-0617	CL-6	XNS-0520	S2.5
S20T-MCLNR/L5	1-1/4	7/8	12	1-1/2	CNM 543	2613-2016	2613-3016	C1604B	NL-0822	CL-12	XNS-0829	S3 S4
S24U-MCLNR/L5	1-1/2	1-1/16	14	2	CNM 543	2613-2018	2613-3018	C1604B	NL-0822	CL-12	XNS-0829	S3 S4

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	 SHIM	 SHIM SCREW	 CLAMP	 CLAMP SCREW	 HEXKEY
	D	F	L	d								
A20Q-MCLNR/L12	20	13	180	25	CNM 1204	2613-5010	2613-6010		NL-0611	CL-6	XNS-0520	S2.5
A25R-MCLNR/L12	25	17	200	32	CNM 1204	2613-5012	2613-6012		NL-0611	CL-6	XNS-0520	S2.5
A32S-MCLNR/L12	32	22	250	40	CNM 1204	2613-5014	2613-6014	C1203B	NL-0617	CL-6	XNS-0520	S2.5
A40T-MCLNR/L12	40	27	300	50	CNM 1204	2613-5016	2613-6016	C1203B	NL-0617	CL-6	XNS-0520	S2.5
A50T-MCLNR/L12	50	35	300	63	CNM 1204	2613-5018	2613-6018	C1203B	NL-0617	CL-6	XNS-0520	S2.5
A32S-MCLNR/L15	32	22	250	40	CNM 1606	2613-5020	2613-6020	C1604B	NL-0822	CL-12	XNS-0829	S3 S4
A40T-MCLNR/L15	40	27	300	50	CNM 1606	2613-5022	2613-6022	C1604B	NL-0822	CL-12	XNS-0829	S3 S4
A50T-MCLNR/L15	50	35	300	63	CNM 1606	2613-5024	2613-6024	C1604B	NL-0822	CL-12	XNS-0829	S3 S4
A12R-MCLNR/L4	3/4	1/2	8	1	CNM 432	2613-5026	2613-6026		NL-0611	CL-6	XNS-0520	S2.5
A16S-MCLNR/L4	1	.651	10	1-1/4	CNM 432	2613-5028	2613-6028		NL-0611	CL-6	XNS-0520	S2.5
A20T-MCLNR/L4	1-1/4	7/8	12	1-1/2	CNM 432	2613-5030	2613-6030	C1203B	NL-0617	CL-6	XNS-0520	S2.5
A24T-MCLNR/L4	1-1/2	1-1/16	12	2	CNM 432	2613-5032	2613-6032	C1203B	NL-0617	CL-6	XNS-0520	S2.5
A20T-MCLNR/L5	1-1/4	7/8	12	1-1/2	CNM 543	2613-5034	2613-6034	C1604B	NL-0822	CL-12	XNS-0829	S3 S4
A24T-MCLNR/L5	1-1/2	1-1/16	12	2	CNM 543	2613-5036	2613-6036	C1604B	NL-0822	CL-12	XNS-0829	S3 S4

Boring Bar Tools Holders

S- MTFNR MTFNL

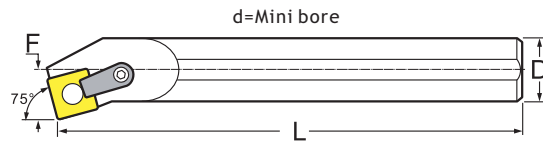
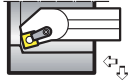


MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM PIN	CLAMP	CLAMP SCREW	HEXKEY
	D	F	L	d								
S16R-MTFNR/L16	16	11	200	20	TNM 1604	2614-0008	2613-1008		NL-0412	CL-6	XNS-0520	S2 S2.5
S20S-MTFNR/L16	20	13	250	25	TNM 1604	2614-0010	2613-1010		NL-0412	CL-6	XNS-0520	S2S 2.5
S25T-MTFNR/L16	25	17	300	32	TNM 1604	2614-0012	2613-1012		NL-0412	CL-6	XNS-0520	S2 S2.5
S32U-MTFNR/L16	32	22	350	40	TNM 1604	2614-0014	2613-1014	T1603B	NL-0414	CL-6	XNS-0520	S2 S2.5
S40U-MTFNR/L16	40	27	350	40	TNM 1604	2614-0016	2613-1016	T1603B	NL-0414	CL-6	XNS-0520	S2 S2.5
S50V-MTFNR/L16	50	35	400	63	TNM 1604	2614-0018	2613-1018	T1603B	NL-0414	CL-6	XNS-0520	S2 S2.5
S10S-MCLNR/L3	5/8	13/32	8	13/16	TNM 332	2614-3008	2614-4008		NL-0412	CL-6	XNS-0520	S2S 2.5
S12S-MCLNR/L3	3/4	1/2	10	1	TNM 332	2614-3010	2614-4010		NL-0412	CL-6	XNS-0520	S2 S2.5
S16T-MCLNR/L3	1	.651	12	1-1/4	TNM 332	2614-3012	2614-4012		NL-0412	CL-6	XNS-0520	S2 S2.5
S20U-MCLNR/L3	1-1/4	7/8	14	1-1/2	TNM 332	2614-3014	2614-4014	T1603B	NL-0414	CL-6	XNS-0520	S2 S2.5
S24U-MCLNR/L3	1-1/2	1-1/16	14	2	TNM 342	2614-3016	2614-4016	T1603B	NL-0414	CL-6	XNS-0520	S2 S2.5

MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM SCREW	CLAMP	CLAMP SCREW	HEXKEY
	D	F	L	d								
A16M-MTFNR/L16	16	11	150	20	TNM 1604	2614-5001	2614-5002		NL-0412	CL-6	XNS-0520	S2 S2.5
A20Q-MTFNR/L16	20	13	180	25	TNM 1604	2614-5003	2614-5004		NL-0412	CL-6	XNS-0520	S2S 2.5
A25R-MTFNR/L16	25	17	200	32	TNM 1604	2614-5005	2614-5006		NL-0412	CL-6	XNS-0520	S2 S2.5
A32S-MTFNR/L16	32	22	250	40	TNM 1604	2614-5007	2614-5008	T1603B	NL-0414	CL-6	XNS-0520	S2 S2.5
A40T-MTFNR/L16	40	27	300	50	TNM 1604	2614-5009	2614-5010	T1603B	NL-0414	CL-6	XNS-0520	S2 S2.5
A50T-MTFNR/L16	50	35	300	63	TNM 1604	2614-5011	2614-5012	T1603B	NL-0414	CL-6	XNS-0520	S2 S2.5
A10Q-MTFNR/L3	5/8	13/32	7	13/16	TNM 332	2614-5013	2614-6014		NL-0412	CL-6	XNS-0520	S2S 2.5
A12R-MTFNR/L3	3/4	1/2	8	1	TNM 332	2614-5015	2614-6016		NL-0412	CL-6	XNS-0520	S2 S2.5
A16S-MTFNR/L3	1	.651	10	1-1/4	TNM 332	2614-5017	2614-6018		NL-0414	CL-6	XNS-0520	S2 S2.5
A20T-MTFNR/L3	1-1/4	7/8	12	1-1/2	TNM 332	2614-5019	2614-6020	T1603B	NL-0414	CL-6	XNS-0520	S2 S2.5
A24T-MTFNR/L3	1-1/2	1-1/16	12	2	TNM 332	2614-5021	2614-6022	T1603B	NL-0414	CL-6	XNS-0520	S2 S2.5

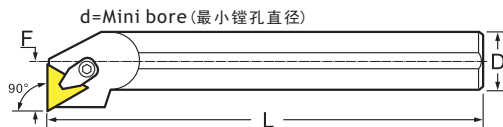
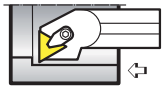
Boring Bar Tools Holders

S-MSKNR MSKNL



MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM PIN	CLAMP	CLAMP SCREW	HEXKEY
	D	F	L	d								
S25T-MSKNR/L12	25	17	300	32	SNM 1204	2616-0020	2616-1020		NL-0611	CL-6	XNS-0520	S2.5
S32U-MSKNR/L12	32	22	350	40	SNM 1204	2616-0022	2616-1022	S1203B	NL-0617	CL-6	XNS-0520	S2.5
S40U-MSKNR/L12	40	27	350	50	SNM 1204	2616-0024	2616-1024	S1203B	NL-0617	CL-6	XNS-0520	S2.5
S50V-MSKNR/L12	50	35	400	63	SNM 1204	2616-0026	2616-1026	S1203B	NL-0617	CL-6	XNS-0520	S2.5
S40U-MSKNR/L15	40	27	350	50	SNM 1506	2616-0028	2616-1028	S1504B	NL-0822	CL-12	XNS-0829	S3 S4
S50V-MSKNR/L15	50	35	400	63	SNM 1506	2616-0030	2616-1030	S1504B	NL-0822	CL-12	XNS-0829	S3 S4
S16T-MSKNR/L4	1	.651	12	1-1/4	SNM 432	2616-2012	2616-3012		NL-0611	CL-20	XNS-0620	S2.5 S3
S20U-MSKNR/L4	1-1/4	7/8	14	1-1/2	SNM 432	2616-2014	2616-3014	S1203B	NL-0617	CL-20	XNS-0620	S2.5 S3
S24U-MSKNR/L4	1-1/2	1-1/16	14	2	SNM 432	2616-2016	2616-3016	S1203B	NL-0617	CL-20	XNS-0620	S2.5 S3
S20U-MSKNR/L5	1-1/4	7/8	14	1-1/2	SNM 543	2616-2018	2616-3018	S1504B	NL-0822	CL-12	XNS-0829	S3 S4
S24U-MSKNR/L5	1-1/2	1-1/16	14	2	SNM 543	2616-2020	2616-3020	S1504B	NL-0822	CL-12	XNS-0829	S3 S4

S-CTFNR CTFNL



MODEL	DIMENSIONS				INSERT SIZE	RIGHT HAND ORDER #	LEFT HAND ORDER #	SHIM	SHIM PIN	CLAMP	CLAMP SCREW	HEXKEY
	D	F	L	d								
S12M-CTFNR/L11	12	9	150	16	TPGN1103	2610-0010	2610-1010			CTFPN-4	CTFP-M4	S2.5 E3
S20S-CTFNR/L11	20	11	180	20	TPGN1103	2610-0012	2610-1012			CTFPN-4	CTFP-M4	S2.5 E3
S25T-CTFNR/L16	25	13	200	25	TPGN1603	2610-0014	2610-1014			CTFPN-5	CTFP-M5	S3 E3
S32U-CTFNR/L16	32	17	250	32	TPGN1603	2610-0016	2610-1016			CTFPN-5	CTFP-M5	S3 E3
S40U-CTFNR/L16	40	22	300	40	TPGN1603	2610-0018	2610-1018	TP16D	M3×8	CTFPN-5	CTFP-M5	S3 E3
S50V-CTFNR/L16	50	27	350	50	TPGN1603	2610-0020	2610-1020	TP16D	M3×8	CTFPN-5	CTFP-M5	S3 E3
S08M-CTFNR/L2	1/2	5/16	6	5/8	TPGN221	2610-3006	2610-4006			CTFPN-4	CTFP-M4	S2.5 E3
S10Q-MCLNR/L2	5/8	13/32	7	13/16	TPGN221	2610-3008	2610-4008			CTFPN-4	CTFP-M4	S2.5 E3
S12R-MCLNR/L3	3/4	1/2	8	1	TPGN321	2610-3010	2610-4010			CTFPN-5	CTFP-M5	S3 E3
S16S-MCLNR/L3	1	.651	10	1-1/4	TPGN321	2610-3012	2610-4012			CTFPN-5	CTFP-M5	S3 E3
S20T-MCLNR/L3	1-1/4	7/8	12	1-1/2	TPGN321	2610-3014	2610-4014	TP16D	M3×8	CTFPN-5	CTFP-M5	S3 E3
S24U-MCLNR/L3	1-1/2	1-1/16	14	2	TPGN321	2610-3016	2610-4016	TP16D	M3×8	CTFPN-5	CTFP-M5	S3 E3
S24U-MCLNR/L4	1-1/2	1-1/16	14	2	TPGN432	2610-3018	2610-4018	TP22D	M3×8	CTFPN-6	CTFP-M6	S4 E3.5

Indexable Tool Holders Sets

AR	AL	BR	BL	E
				
• 刀体主偏角90° • 右刀, 适合加工90°台阶面、外圆等 * Right hand suitable for machining to a 90° square shoulder. * For machining operations such as turning, boring, and chamfering.	• 刀体主偏角90° • 左刀, 适合加工90°台阶面、外圆等 * Left hand suitable for facing to a square shoulder. * Ideal for boring, chamfering, and facing.	• 刀体主偏角15° • 右刀, 适合加工15°台阶面、外圆、仿形等 * Right hand 15° lead angle for rough turning where a square shoulder is not required. * Used for turning, boring, and facing where a lead angle is acceptable.	• 刀体主偏角15° • 左刀, 适合加工15°台阶面、外圆、仿形等 * Left hand 15° lead angle for facing to center or where no shoulder is needed. * Great for boring, facing, and chamfering.	• 刀体主偏角30° • 直刀, 适合加工V型槽、外圆、仿形、倒角等 * Neutral threading tool 30° included angle; used for U.S. standard universal threading, V-grooving, chamfering, turning, boring & facing.

1/4" SQ or 6mm SQ

Tin-Coated

STYLE	IMPERIAL	METRIC	IMPERIAL	METRIC
IN MM ORDER	ORDER	ORDER	ORDER	ORDER
AR-4 AR-06	2381-0001	2381-1001	2381-2001	2381-3001
AL-4 AL-06	2381-0002	2381-1002	2381-2002	2381-3002
BR-4 BR-06	2381-0003	2381-1003	2381-2003	2381-3003
BL-4 BL-06	2381-0004	2381-1004	2381-2004	2381-3004
E-4 E-06	2381-0005	2381-1005	2381-2005	2381-3005

5/8" SQ or 16mm SQ

Tin-Coated

STYLE	IMPERIAL	METRIC	IMPERIAL	METRIC
IN MM ORDER	ORDER	ORDER	ORDER	ORDER
AR-10 AR-16	2381-0031	2381-1031	2381-2031	2381-3031
AL-10 AL-16	2381-0032	2381-1032	2381-2032	2381-3032
BR-10 BR-16	2381-0033	2381-1033	2381-2033	2381-3033
BL-10 BL-16	2381-0034	2381-1034	2381-2034	2381-3034
E-10 E-16	2381-0035	2381-1035	2381-2035	2381-3035

5/16" SQ or 8mm SQ

Tin-Coated

STYLE	IMPERIAL	METRIC	IMPERIAL	METRIC
IN MM ORDER	ORDER	ORDER	ORDER	ORDER
AR-5 AR-08	2381-0056	2381-1056	2381-2056	2381-3056
AL-5 AL-08	2381-0057	2381-1057	2381-2057	2381-3057
BR-5 BR-08	2381-0058	2381-1058	2381-2058	2381-3058
BL-5 BL-08	2381-0059	2381-1059	2381-2059	2381-3059
E-5 E-08	2381-0060	2381-1060	2381-2060	2381-3060

3/4" SQ or 20mm SQ

Tin-Coated

STYLE	IMPERIAL	METRIC	IMPERIAL	METRIC
IN MM ORDER	ORDER	ORDER	ORDER	ORDER
AR-12 AR-20	2381-0041	2381-1041	2381-2041	2381-3041
AL-12 AL-20	2381-0042	2381-1042	2381-2042	2381-3042
BR-12 BR-20	2381-0043	2381-1043	2381-2043	2381-3043
BL-12 BL-20	2381-0044	2381-1044	2381-2044	2381-3044
E-12 E-20	2381-0045	2381-1045	2381-2045	2381-3045

3/8" SQ or 10mm SQ

Tin-Coated

STYLE	IMPERIAL	METRIC	IMPERIAL	METRIC
IN MM ORDER	ORDER	ORDER	ORDER	ORDER
AR-6 AR-10	2381-0011	2381-1011	2381-2011	2381-3011
AL-6 AL-10	2381-0012	2381-1012	2381-2012	2381-3012
BR-6 BR-10	2381-0013	2381-1013	2381-2013	2381-3013
BL-6 BL-10	2381-0014	2381-1014	2381-2014	2381-3014
E-6 E-10	2381-0015	2381-1015	2381-2015	2381-3015

1" SQ or 25mm SQ

Tin-Coated

STYLE	IMPERIAL	METRIC	IMPERIAL	METRIC
IN MM ORDER	ORDER	ORDER	ORDER	ORDER
AR-16 AR-25	2381-0061	2381-1061	2381-2061	2381-3061
AL-16 AL-25	2381-0062	2381-1062	2381-2062	2381-3062
BR-16 BR-25	2381-0063	2381-1063	2381-2063	2381-3063
BL-16 BL-25	2381-0064	2381-1064	2381-2064	2381-3064
E-16 E-25	2381-0065	2381-1065	2381-2065	2381-3065

1/2" SQ or 12mm SQ

Tin-Coated

STYLE	IMPERIAL	METRIC	IMPERIAL	METRIC
IN MM ORDER	ORDER	ORDER	ORDER	ORDER
AR-8 AR-12	2381-0021	2381-1021	2381-2021	2381-3021
AL-8 AL-12	2381-0022	2381-1022	2381-2022	2381-3022
BR-8 BR-12	2381-0023	2381-1023	2381-2023	2381-3023
BL-8 BL-12	2381-0024	2381-1024	2381-2024	2381-3024
E-8 E-12	2381-0025	2381-1025	2381-2025	2381-3025

For Insert 5Pcs/Sets



Inserts TCMT

STYLE	INSERT	INSERT TIN
IN MM	IN MM ORDER	ORDER
1/4 6	1.8(1.5)1 090204	2124-0022 2124-1022
5/16 8	1.8(1.5)1 090204	2124-0022 2124-1022
3/8 10	21.51 110204	2124-0028 2124-1028
1/2 12	32.51 16T304	2124-0034 2124-1034
5/8 16	32.51 16T304	2124-0034 2124-1034
3/4 20	32.51 16T304	2124-0034 2124-1034
1 25	431 220408	2124-0038 2124-1038



5 PIECE SETS 五件套车刀

INSERT TIN

STYLE	IMPERIAL	METRIC	IMPERIAL	METRIC
IN MM ORDER	ORDER	ORDER	ORDER	ORDER
1/4 6mm	2381-0051	2381-1051	2381-2051	2381-3051
5/16 8mm	2381-0052	2381-1052	2381-2052	2381-3052
3/8 10mm	2381-0053	2381-1053	2381-2053	2381-3053
1/2 12mm	2381-0054	2381-1054	2381-2054	2381-3054
5/8 16mm	2381-0055	2381-1055	2381-2055	2381-3055
3/4 20mm	2381-0056	2381-1056	2381-2056	2381-3056
1 25mm	2381-0057	2381-1057	2381-2057	2381-3057

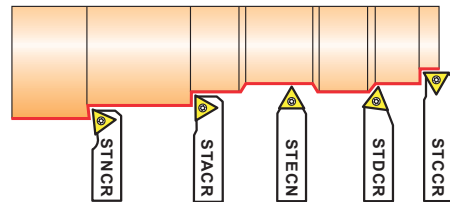
Indexable Tool Holders Sets

Screw-On Type Toolholders Sets

Includes:

- * One holder of each 5 styles:
STACR, STNCR, STECN, STDCR, STCCR.
- * 5 TCMT inserts
- * 5 Torx screws.
- * 1 Torx key.

7° Clearance
TCMT style



MODEL #	SHANK×OAL SIZE	ORDER	Tin-Coated ORDER
ST06-2	3/8×2-1/2	2380-5062	2380-0062
ST08-2	1/2×3-1/2	2380-5082	2380-0082
ST10-2	5/8×4	2380-5102	2380-0102
ST12-3	3/4×4-1/2	2380-5123	2380-0123
ST64-3	1×6	2380-5643	2380-0643
ST8-02	8×63	2380-6062	2380-1062
ST10-02	10×63	2380-6082	2380-1082
ST12-02	12×88	2380-6102	2380-1102
ST16-03	16×100	2380-6123	2380-1123
ST20-03	20×115	2380-6643	2380-1643

4+1 5Pc Tool Holders Sets

Includes:

- * One holder of each 4 styles:
STACR, STNCR, STECN, STDCR
- * One Boring Bar of each 1 Styles:
S-STFCR
- * 5 TCMT inserts
- * 5 Torx screws.
- * 1 Torx key.

STYLE IN	4+1包含车刀 4把外圆车刀 1把内孔镗刀		UN Coated Order No.	Tin Coated Order No.
3/8	STNCR, STACR	S05M-STFCR2	2381-5045	2381-7045
1/2	STNCR, STACR STECN, STDCR	S08Q-STFCR2	2381-5046	2381-7046
5/8		S10R-STFCR2	2381-5047	2381-7047
10mm	STNCR, STACR	S08H-STFCR09	2381-6045	2381-8045
12mm	STNCR, STACR STECN, STDCR	S10K-STFCR11	2381-6046	2381-8046
16mm		S12M-STFCR11	2381-6047	2381-8047

For Inserts
TCMT



配套刀片

STYLE IN	MM	UN Coated Order No.	Tin Coated Order No.
3/8	10mm	2381-9021	2381-9024
1/2	12mm	2381-9022	2381-9025
5/8	16mm	2381-9023	2381-9026



Indexable Tool Holders Sets

3Pc Tool Holders Sets

TYPE:SCD-3

Includes:

- * One holder of each 3 styles:
Turning SCLCR ,SDJCR ,Boring Bar S-SCLCR.
- * 2PCS CCMT ,1PC DCMT inserts
- * 1 Torx key.



Size	Turning	Boring Bar	UN Coated Order No.	Tin Coated Order No.
3/8	SCLCR SDJCR	S05H-SCLCR2	2381-5065	2381-7065
1/2		S06M-SCLCR2	2381-5066	2381-7066
5/8		S08M-SCLCR2	2381-5067	2381-7067
10mm	SCLCR SDJCR	S08H-SCLCR06	2381-6065	2381-8065
12mm		S10K-SCLCR06	2381-6066	2381-8066
16mm		S12M-SCLCR06	2381-6067	2381-8067

STYLE			UN Coated Order No.	Tin Coated Order No.
IN	MM	Inserts		
3/8	10mm	DCMT070204 /CCMT060204/CCMT060204	2381-9001	2381-9011
1/2	12mm	DCMT070204 /CCMT09T304/CCMT060204	2381-9002	2381-9012
5/8	16mm	DCMT11T304 /CCMT09T304/CCMT060204	2381-9003	2381-9013

7Pc Tool Holders Sets

TYPE:SCC-7

Includes:

- * One holder of each 6 styles:
Turning SCLCR ,SCLCL ,SCBCR ,SCMCN ,SCDCN, SCKCR
Boring Bar S-SCLCR.
- * 6PCS CCMT
- * 1 Torx key.



Size	Turning	Boring Bar	UN Coated Order No.	Tin Coated Order No.
1/4	SCMCN,SCDCN SCLCR,SCLCL SCKCR,SCBCR	S05H-SCLCR2	2381-0080	2381-2080
3/8		S06M-SCLCR2	2381-0082	2381-2082
1/2		S08M-SCLCR2	2381-0084	2381-2084
5/8	SCMCN,SCDCN SCLCR,SCLCL SCKCR,SCBCR	S10S-SCLCR3	2381-0086	2381-2086
6mm		S08H-SCLCR06	2381-1080	2381-3080
10mm		S10K-SCLCR06	2381-1082	2381-3082
12mm		S12M-SCLCR06	2381-1084	2381-3084
16mm		S16R-SCLCR09	2381-1086	2381-3086



CCMT

SIZE	INSERT SIZE	UN Coated Order No.	Tin Coated Order No.
1/4 6mm	CCMT21.51 CCMT060204	2100-0008	2100-1008
3/8 10mm			
1/2 12mm	CCMT32.51 CCMT09T304	2100-0014	2100-1014
5/8 16mm			

Indexable Tool Holders Sets

7PCS Intexable Tool Holders Sets

TYPE:SCDTW-7

Includes:

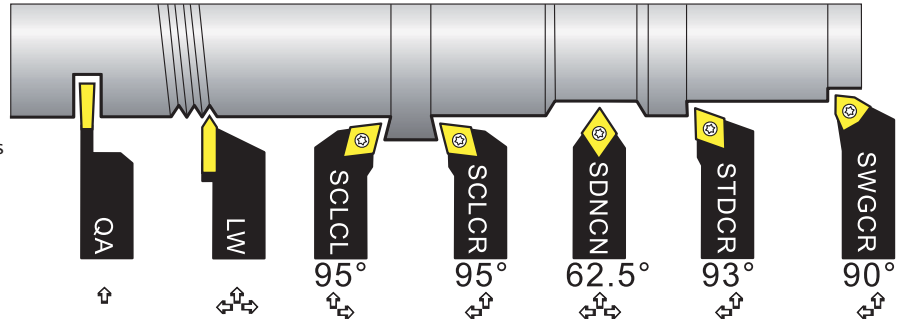
* One holder of each
7 styles:

5PCS: SCLCR ,SCLCL

SDNCN,STDCR,SWGCR

1PCS:Threading Holders

1PCS:Goobing Holders



8mm & 5/16

公制	IMPERIAL	INSERTS(刀片)	
型号			
QA0812R-03	QA5/16R-03	CK3	CK3
LW0810R-04	LW5/16R-04	JCL15-120	JCL15-120
SWGCR0808D05	SWGCR06-2J	WCMX050304	WCMX541
SCLCR0808D06	SCLCR06-2J	CCMT060204	CCMT21.51
SCLCL0808D06	SCLCL06-2J		
SDNCN0808D07	SDNCN06-2J	DCMT070204	DCMT21.51
SDJCR0808D07	SDJCR06-2J		
公制货号.2387-0002 & Tin-coated Inserts 2387-1002			
Imperial ORDER No.2387-2002& Tin-coated Inserts2387-3002			

6mm & 1/4

公制	IMPERIAL	INSERTS(刀片)	
型号			
QA0612R-03	QA1/4R-03	CK3	CK3
LW0610R-04	LW1/4R-04	JCL15-120	JCL15-120
SWGCR0610D05	SWGCR1/4	WCMX050304	WCMX541
SCLCR0610D06	SCLCR1/4	CCMT060204	CCMT21.51
SCLCL0610D06	SCLCL1/4		
SDNCN0610E07	SDNCN1/4	DCMT070204	DCMT21.51
SDJCR0610E07	SDJCR1/4		
公制货号.2387-0001 & Tin-coated Inserts 2387-1001			
Imperial ORDER No.2387-2001 & Tin-coated Inserts2387-3001			

12mm & 1/2

公制	IMPERIAL	INSERTS(刀片)	
型号			
QA1212R-04	QA3/8R-03	CK3	CK3
LW1212R-04	LW3/8R-04	JCL15-120	JCL15-120
SWGCR1212E05	SWGCR08-3	WCMX050304	WCMX541
SCLCR1212E06	SCLCR08-2	CCMT060204	CCMT21.51
SCLCL1212E06	SCLCL08-2		
SDNCN1212E07	SDNCN08-2	DCMT070204	DCMT21.51
SDJCR1212E07	SDJCR08-2		
公制货号.2387-0004 & Tin-coated Inserts 2387-1004			
Imperial ORDER No.2387-2004 & Tin-coated Inserts2387-3004			

10mm & 3/8

公制	IMPERIAL	INSERTS(刀片)	
型号			
QA1012R-03	QA3/8R-03	CK3	CK3
LW1010R-04	LW3/8R-04	JCL15-120	JCL15-120
SWGCR1010E05	SWGCR06-3	WCMX050304	WCMX541
SCLCR1010E06	SCLCR06-2	CCMT060204	CCMT21.51
SCLCL1010E06	SCLCL06-2		
SDNCN1010E07	SDNCN06-2	DCMT070204	DCMT21.51
SDJCR1010E07	SDJCR06-2		
公制货号.2387-0003 & Tin-coated Inserts 2387-1003			
Imperial ORDER No.2387-2003 & Tin-coated Inserts2387-3003			

20mm & 3/4

公制	IMPERIAL	INSERTS(刀片)	
型号			
QA2020R-04	QA5/8R-03	CK4	CK4
LW2020R-04	LW5/8R-04	JCL20-120A	JCL20-120A
SWGCR2020K06	SWGCR10-3B	WCMT06T304	WCMT32.51
SCLCR2020K09	SCLCR10-3B	CCMT09T304	CCMT32.51
SCLCL2020K09	SCLCL10-3B		
SDNCN2020K11	SDNCN10-3B	DCMT11T304	DCMT32.51
SDJCR2020K11	SDJCR10-3B		
公制货号.2387-0006 & Tin-coated Inserts 2387-1006			
Imperial ORDER No.2387-2006 & Tin-coated Inserts2387-3006			

16mm & 5/8

公制	IMPERIAL	INSERTS(刀片)	
型号			
QA1616R-03	QA3/8R-03	CK3	CK3
LW1616R-04	LW3/8R-04	JCL15-120	JCL15-120
SWGCR1616H06	SWGCR06-3A	WCMT06T304	WCMT32.51
SCLCR1616H09	SCLCR06-3A	CCMT09T304	CCMT32.51
SCLCL1616H09	SCLCL06-3A		
SDNCN1616H11	SDNCN06-3A	DCMT11T304	DCMT32.51
SDJCR1616H11	SDJCR06-3A		
公制货号.2387-0005 & Tin-coated Inserts 2387-1005			
Imperial ORDER No.2387-2005 & Tin-coated Inserts2387-3005			

7件套车刀配套刀片

6mm	1/4		
8mm	5/16	2386-0071	2386-1071
10mm	3/8		
12mm	1/2		
16mm	5/8	2386-0075	2386-1075
20mm	3/4	2386-0076	2386-1076

Indexable Tool Holders Sets

7PCS Indexable Tool Holders Sets

TYPE:SD-7

Includes:

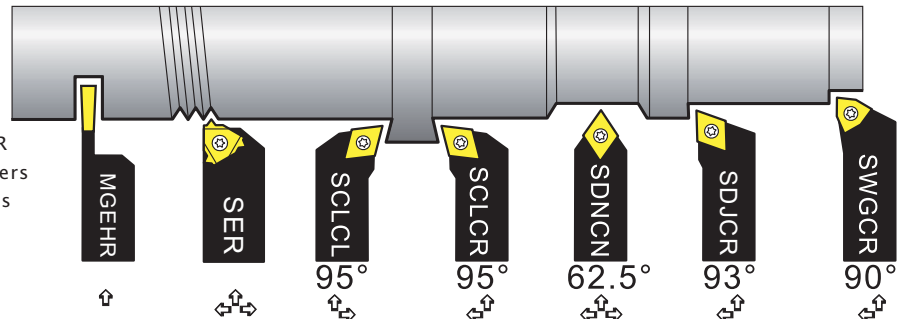
* One holder of each
7 styles:

5PCS: SCLCR ,SCLCL

SDNCN,STDCR,SWGCR

1PCS:Threading Holders

1PCS:Goobing Holders



12mm & 1/2

型号			
公制	IMPERIAL	INSERTS(刀片)	
MGER1212F02	1/2	MGMN-200	MGMN-2
SER1212F11	1/2	11ERA60	11ERA60
SWGCR1212F05	1/2	WCMX050304	WCMT21.51
SCLCR1212F06	1/2	CCMT060204	CCMT21.51
SCLCL1212F06	1/2		
SDNCN1212F07	1/2	DCMT070204	DCMT21.51
SDJCR1212F07	1/2		
公制货号: 2387-0011 Tin Coated Inserts 2387-1011			
Imperial: 2387-2011 Tin Coated Inserts 2387-2011			

6mm & 1/4

型号			
公制	IMPERIAL	INSERTS(刀片)	
MGER0610E02	1/4	MGMN-200	MGMN-2
SER0608E11	1/4	11ERA60	11ERA60
SWGCR0610D05	1/4	WCMX050304	WCMT21.51
SCLCR0610D06	1/4	CCMT060204	CCMT21.51
SCLCL0610D06	1/4		
SDNCN0608D07	1/4	DCMT070204	DCMT21.51
SDJCR0608D07	1/4		
公制货号: 2387-0008 Tin Coated Inserts 2387-1008			
Imperial: 2387-2008 Tin Coated Inserts 2387-2008			

16mm & 5/8

型号			
公制	IMPERIAL	INSERTS(刀片)	
MGER1616H03	5/8	MGMN-300	MGMN-300
SER1616H16	5/8	16ERAG60	16ERAG60
SWGCR1616H06	5/8	WCMX06T304	WCMT32.51
SCLCR1616H09	5/8	CCMT09T304	CCMT32.51
SCLCL1616H09	5/8		
SDNCN1616H11	5/8	DCMT11T304	DCMT32.51
SDJCR1616H11	5/8		
公制货号: 2387-0012 Tin Coated Inserts 2387-1012			
Imperial: 2387-2012 Tin Coated Inserts 2387-2012			

8mm & 5/16

型号			
公制	IMPERIAL	INSERTS(刀片)	
MGER0810E02	5/16	MGMN-200	MGMN-2
SER0808E11	5/16	11ERA60	11ERA60
SWGCR0810D05	5/16	WCMX050304	WCMT21.51
SCLCR0808D06	5/16	CCMT060204	CCMT21.51
SCLCR0808D06	5/16		
SDNCN0808D07	5/16	DCMT070204	DCMT21.51
SDJCR0808D07	5/16		
公制货号: 2387-0009 Tin Coated Inserts 2387-1009			
Imperial: 2387-2009 Tin Coated Inserts 2387-2009			

20mm & 3/4

型号			
公制	IMPERIAL	INSERTS(刀片)	
MGER2020K03	3/4	CK4	CK4
SER2020K16	3/4	JCL20-120A	JCL20-120A
SWGCR2020K06	3/4	WCMX06T304	WCMT32.51
SCLCR2020K09	3/4	CCMT09T304	CCMT32.51
SCLCL2020K09	3/4		
SDNCN2020K11	3/4	DCMT11T304	DCMT32.51
SDJCR2020K11	3/4		
公制货号: 2387-0013 Tin Coated Inserts 2387-1013			
Imperial: 2387-2013 Tin Coated Inserts 2387-2013			

10mm & 3/8

型号			
公制	IMPERIAL	INSERTS(刀片)	
MGER1010H02	3/8	MGMN-200	MGMN-2
SER1010H11	3/8	11ERA60	11ERA60
SWGCR1010E05	3/8	WCMX050304	WCMT21.51
SCLCR1010E06	3/8	CCMT060204	CCMT21.51
SCLCR1010E06	3/8		
SDNCN1010E07	3/8	DCMT070204	DCMT21.51
SDJCR1010E07	3/8		
公制货号: 2387-0010 Tin Coated Inserts 2387-1010			
Imperial: 2387-2010 Tin Coated Inserts 2387-2010			

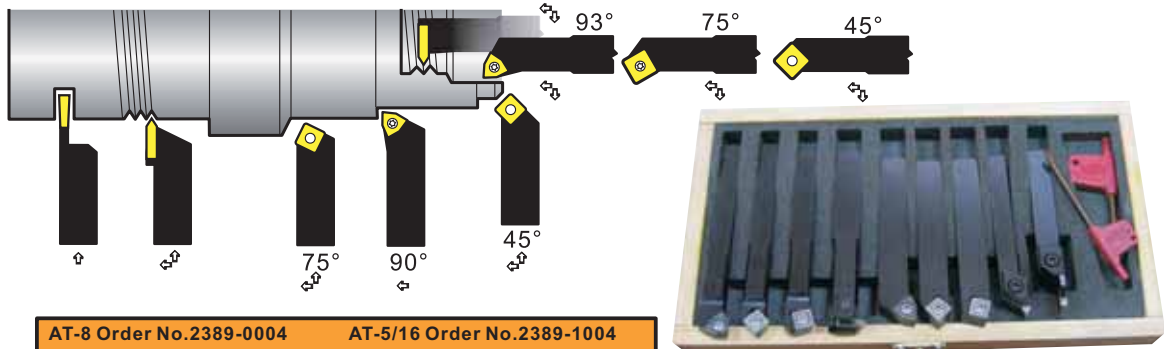
7件套车刀配套刀片

刀体尺寸		UN Coated Order No.	Tin Coated Order No.
公制	IMPERIAL		
6mm	1/4	2387-0050	2387-1050
8mm	5/16		
10mm	3/8		
12mm	1/2		
16mm	5/8	2387-0051	2387-1051
20mm	3/4		

Indexable Tool Holders Sets

9PCS Intexable Tool Holders Sets

TYPE:SW-7



AT-8 Order No.2389-0004			AT-5/16 Order No.2389-1004		
	Model			Model	
8mm 5/16	SSSCR0810E06	5/16-2		SCMT060204(21.51)	
	SSBCR0810E06	5/16-2		SCMT060204(21.51)	
	SWGCR0810E05	5/16-2		WCMT050304(21.51)	
	SSSCR0610H06	1/4-2		SCMT060204(21.51)	
	SSKCR0610H06	1/4-2		SCMT060204(21.51)	
	SWUCR0610H05	1/4-2		WCMT050304(2.5(2)1)	
	LN0813R-15	5/16-2		JCL15-120	
	LW0810R-15	5/16-2		JCL15-120	
	QA0812R-03	5/16-2		CK3	

AT-10 Order No.2389-0005			AT-3/8 Order No.2389-1005		
	Model			Model	
10mm 3/8	SSSCR1013H09	3/8-3		SCMT09T304(32.51)	
	SSBCR1015H09	3/8-3		SCMT09T304(32.51)	
	SWGCR1013H06	3/8-3		WCMT06T304(32.51)	
	SSSCR0810J09	5/16-3		SCMT09T304(32.51)	
	SSKCR0810J09	5/16-3		SCMT09T304(32.51)	
	SWUCR0810J06	5/16-3		WCMT06T304(32.51)	
	LN1013R-15	3/8-2		JCL15-120	
	LW1010R-15	3/8-2		JCL15-120	
	QA1012R03	3/8-2		CK3	

AT-12 Order No.2389-0006			AT-1/2 Order No.2389-1006		
	Model			Model	
12mm 1/2	SSSCR1215H09	1/2-3		SCMT09T304(32.51)	
	SSBCR1215H09	1/2-3		SCMT09T304(32.51)	
	SWGCR1215H06	1/2-3		WCMT06T304(32.51)	
	SSSCR1012J09	3/8-3		SCMT09T304(32.51)	
	SSKCR1012J09	3/8-3		SCMT09T304(32.51)	
	SWUCR1012J06	3/8-3		WCMT06T304(32.51)	
	LN1212R-15	1/2-2		JCL15-120	
	LW1210R-15	1/2-2		JCL15-120	
	QA1212R-03	1/2-2		CK3	

AT-16 Order No.2389-0007			AT5/8 Order No.2389-1007		
	Model			Model	
16mm 5/8	SSSCR1616H09	5/8-3		SCMT09T304(32.51)	
	SSBCR1616H09	5/8-3		SCMT09T304(32.51)	
	SWGCR1616H06	5/8-3		WCMT06T304(32.51)	
	SSSCR1216K09	1/2-3		SCMT09T304(32.51)	
	SSKCR1216K09	1/2-3		SCMT09T304(32.51)	
	SWUCR1216L09	1/2-3		WCMT06T304(32.51)	
	LN1616R-20	5/8-3		JCL20-120	
	LW1616R-20	5/8-3		JCL20-120	
	QA1616R-03	5/8-2		CK3	

For Inserts

Size	Order No.	Tin-Coated Order No.
AT-8	2386-0095	2386-1095
AT-10	2386-0096	2386-1096
AT-12	2386-0091	2386-1091
AT-16	2386-0092	2386-1092

Indexable Tool Holders Sets

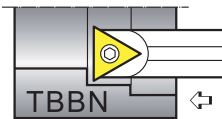
TBB Series Indexable Boring Bar Sets

TBBN6-2 OAL5"
TBBS8-2 OAL6"
TBBN10 OAL7"
TBBN12-3 OAL10"
10PCS TPG B321
5PCS TPG B221
3PCS Screw
2PCS Key

MODEL: TBB-4

Order No. 2625-9001

Order No. 2625-9002 (Inserts Tin-Coated)



MODEL	Mini Bore	Shank	OAL	Inserts	Angle	UN Coated Order No.	Tin Coated Order No.
TBBS6-2	.430	1/2	5	TPG.22.	91°	2625-0020	2625-1020
TBBN6-2	.430	1/2	5	TPG.22.	95°	2625-0022	2625-1022
TBBS8	.563	1/2	6	TPG.22.	91°	2625-0024	2625-1024
TBBL8	.563	1/2	6	TPG.22.	85°	2625-0026	2625-1026
TBBN8	.563	1/2	6	TPG.22.	95°	2625-0028	2625-1028
TBBS10	.710	5/8	7	TPG.32.	91°	2625-0030	2625-1030
TBBL10	.710	5/8	7	TPG.32.	85°	2625-0032	2625-1032
TBBN10	.710	5/8	7	TPG.32.	95°	2625-0034	2625-1034
TBBS12-3	.845	3/4	10	TPG.32.	91°	2625-0036	2625-1036
TBBN12-3	.845	3/4	10	TPG.32.	95°	2625-0038	2625-1038

Stubby Length Boring Bar Sets



Insert

MODEL	UN Coated Order No.	Tin Coated Order No.
TPGT21.51	2127-0200	2127-1200
TPGT32.51	2127-0202	2127-1202



MODEL	Shank	Mini Bore	OAL	Insert	Order No	Tin-Coated Order No
TAS-500BTX	1/2	1/2	2-5/32	TPGT21.51	2631-0010	2631-1010
TAS-500DTX	3/4	1/2	2-15/16	TPGT21.51	2631-0012	2631-1012
TAS-750DTX	3/4	3/4	3-5/32	TPGT32.51	2631-0014	2631-1014
TAS-1000DTX	3/4	1	3-3/8	TPGT32.51	2631-0016	2631-1016
TAS-1250DTX	3/4	1-1/4	3-19/32	TPGT32.51	2631-0018	2631-1018
TAS-500ETX	1	1/2	2-15/16	TPGT21.51	2631-0020	2631-1020
TAS-750ETX	1	3/4	3-5/32	TPGT32.51	2631-0022	2631-1022
TAS-1000ETX	1	1	3-3/8	TPGT32.51	2631-0024	2631-1024
TAS-1250ETX	1	1-1/4	3-19/32	TPGT32.51	2631-0026	2631-1026
TAS-18A	18mm	1/2	2-15/16	TPGT21.51	2631-0028	2631-1028
TAS-18B	18mm	3/4	3-19/32	TPGT32.51	2631-0030	2631-1030
TAS-18C	18mm	1	3-3/8	TPGT32.51	2631-0032	2631-1032
TAS-18D	18mm	1-1/4	3-5/32	TPGT32.51	2631-0034	2631-1034

18mm SHANK:

TAS-18A
TAS-18B
TAS-18C
TAS-18D

3/4" SHANK:

TAS-500DTX
TAS-750DTX
TAS-1000DTX
TAS-1250DTX

1" SHANK:

TAS-500ETX
TAS-750ETX
TAS-1000ETX
TAS-1250ETX

MODEL: TA-18
Order No. 2631-0202
Order No. 2631-0203 Tin

MODEL: TA-3/4
Order No. 2631-0200
Order No. 2631-0201 Tin

MODEL: TA-1
Order No. 2631-0204
Order No. 2631-0205 Tin

Indexable Tool Holders Sets

Round Shank Boring Bar

- * Screw Down Style
- * Positive Rake 90° Lead



SHANK DIA	LENGTH	BORE DEPTH	MIN BORE	INSERT SIZE	ORDER #	TIN ORDER #
1/2	2-3/4	1-1/4	7/16	TCMT21.51	2627-0020	2627-3020
1/2	3-5/8	2-1/8	7/16	TCMT21.51	2627-0022	2627-3022
1/2	3	1-1/2	1/2	TCMT21.51	2627-0024	2627-3024
1/2	4	2-1/2	1/2	TCMT21.51	2627-0026	2627-3026
5/8	3	1-1/4	7/16	TCMT21.51	2627-0028	2627-3028
5/8	3-7/8	2-1/8	7/16	TCMT21.51	2627-0030	2627-3030
5/8	3-1/4	1-1/2	1/2	TCMT21.51	2627-0032	2627-3032
5/8	4-1/4	2-1/2	1/2	TCMT21.51	2627-0034	2627-3034
5/8	3-1/2	1-3/4	9/16	TCMT221	2627-0036	2627-3036
5/8	4-5/8	2-7/8	9/16	TCMT221	2627-0038	2627-3038
3/4	3-3/8	1-3/8	7/16	TCMT21.51	2627-0040	2627-3040
3/4	4-1/4	2-1/4	7/16	TCMT21.51	2627-0042	2627-3042
3/4	3-5/8	1-5/8	1/2	TCMT21.51	2627-0044	2627-3044
3/4	4-5/8	2-5/8	1/2	TCMT21.51	2627-0046	2627-3046
3/4	3-7/8	1-7/8	9/16	TCMT221	2627-0048	2627-3048
3/4	5	3	9/16	TCMT221	2627-0050	2627-3050
3/4	4-1/4	2-1/4	11/16	TCMT221	2627-0052	2627-3052
3/4	5-1/2	3-1/2	11/16	TCMT221	2627-0054	2627-3054



SET INCLUDES:

- * Inserts.
- * Tors Screws.
- * Torx Keys.
- * Boring Bars.
- * With wooden box case.

SETS

Model	SHANK SIZE	PIECES	ORDER #	TIN-COATED ORDER #
RS4	1/2	4	2627-9004	2627-9104
RS6	5/8	6	2627-9006	2627-9106
RS8	3/4	8	2627-9008	2627-9108

CARBIDE INSERTS

INSERT	RADIUS	ORDER #	TIN-COATED ORDER #
TCMT21.51	.015	2124-0028	2124-1028
TCMT221	.015	2124-0030	2124-1030

NB Round Shank Boring Bar



SETS

Model	SHANK SIZE	OAL	ANGLE	Mini Brod	PIECES	TIN-COATED ORDER #
NB-1/2	1/2	4	91° 95°	.286/.314	4	2627-9200
NB-12	12	100	91° 95°	8	4	2627-9201

CARBIDE INSERTS

INSERT	TIN-COATED ORDER #
TBGT06102L-W	2124-1100

Boring Bar Sets

S08H-SCLCR06(S05H-SCLCR2,5/16)
S10K-SCLCR06(S06M-SCLCR2,3/8)
S12M-SCLCR06(S08Q-SCLCR2,1/2)
S16R-SCLCR09(S10R-SCLCR3,5/8)
S20S-SCLCR09(S12S-SCLCR3,3/4)



MODEL	PIECE	SIZE	Order No	Tin-Coated Order No
S-SCLC-03S	3	10,12,16mm	2601-5004	2601-5020
S-SCLC-04S	4	8,10,12,16mm	2601-5006	2601-5022
S-SCLC-05S	5	8,10,12,16,20mm	2601-5008	2601-5024
S-SCLC-3-1S	3	5/16,3/8,1/2	2601-5010	2601-5026
S-SCLC-3-2S	3	1/2,5/8,3/4	2601-5012	2601-5028
S-SCLC-4-1S	4	5/16,3/8,1/2,5/8	2601-5014	2601-5030
S-SCLC-4-2S	4	3/8,1/2,5/8,3/4	2601-5016	2601-5032
S-SCLC-5S	5	5/16,3/8,1/2,5/8,3/4	2601-5018	2601-5034

S08H-STFCR09(S05H-STFCR1.8,5/16)
S10K-STFCR11(S06M-STFCR2,3/8)
S12M-STFCR11(S08Q-STFCR2,1/2)
S16R-STFCR11(S10R-STFCR2,5/8)
S20S-STFCR16(S12S-STFCR3,3/4)



MODEL	PIECE	SIZE	Order No	Tin-Coated Order No
S-STFCR-03S	3	10,12,16mm	2605-5036	2605-5052
S-STFCR-04S	4	8,10,12,16mm	2605-5038	2605-5054
S-STFCR-05S	5	8,10,12,16,20mm	2605-5040	2605-5056
S-STFCR-3-1S	3	5/16,3/8,1/2	2605-5042	2605-5058
S-STFCR-3-2S	3	1/2,5/8,3/4	2605-5044	2605-5060
S-STFCR-4-1S	4	5/16,3/8,1/2,5/8	2605-5046	2605-5062
S-STFCR-4-2S	4	3/8,1/2,5/8,3/4	2605-5048	2605-5064
S-STFCR-5S	5	5/16,3/8,1/2,5/8,3/4	2605-5050	2605-5066

S08H-STUCR09(S05H-STUCR2,5/16)
S10K-STUCR11(S06M-STUCR2,3/8)
S12M-STUCR11(S08Q-STUCR2,1/2)
S16R-STUCR11(S10R-STUCR2,5/8)
S20S-STUCR16(S12S-STUCR3,3/4)

MODEL	PIECE	SIZE	Order No	Tin-Coated Order No
S-STUCR-03S	3	10,12,16mm	2605-5068	2605-5084
S-STUCR-04S	4	8,10,12,16mm	2605-5070	2605-5086
S-STUCR-05S	5	8,10,12,16,20mm	2605-5072	2605-5088
S-STUCR-3-1S	3	5/16,3/8,1/2	2605-5074	2605-5090
S-STUCR-3-2S	3	1/2,5/8,3/4	2605-5076	2605-5092
S-STUCR-4-1S	4	5/16,3/8,1/2,5/8	2605-5078	2605-5094
S-STUCR-4-2S	4	3/8,1/2,5/8,3/4	2605-5080	2605-5096
S-STUCR-5S	5	5/16,3/8,1/2,5/8,3/4	2605-5082	2605-5098

Indexable Tool Holders Sets

Multi-Purpose 5Pcs/sets

TYPE:MP-5

For the outer circle and the end surface, steps, profiling, grooving and cutting, thread processing



8mm or 5/16

Metric:	Imperial:	Inserts
MGEHR0810D02	MGEHR5/16-02	MGMN200
SER0808D08	SER5/16-08	08ER A60
SCLCR0808D06	SCLCR5/16-2	CCMT060204(21.51)
SCLCL0808D06	SCLCL5/16-2	CCMT060204(21.51)
SDJCR0808D07	SDJCR5/16-2	DCMT070204(21.51)
Metric: Tin-Coated Inserts 2381-0081		
Imperial: Tin-Coated Inserts 2381-1081		

10mm or 3/8

Metric:	Imperial:	Inserts
MGEHR1010E02	MGEHR3/8-02	MGMN200
SER1010E11	SER3/8-11	11ER A60
SCLCR1010E06	SCLCR3/8-2	CCMT060204(21.51)
SCLCL1010E06	SCLCL3/8-2	CCMT060204(21.51)
SDJCR1010E07	SDJCR3/8-2	DCMT070204(21.51)
Metric: Tin-Coated Inserts 2381-0083		
Imperial: Tin-Coated Inserts 2381-1083		

12mm or 1/2

Metric:	Imperial:	Inserts
MGEHR1212F02	MGEHR1/2-02	MGMN200
SER1212F11	SER1/2-11	11ER A60
SCLCR1212F06	SCLCR1/2-2	CCMT060204(21.51)
SCLCL1212F06	SCLCL1/2-2	CCMT060204(21.51)
SDJCR1212F07	SDJCR1/2-2	DCMT070204(21.51)
Metric: Tin-Coated Inserts 2381-0085		
Imperial: Tin-Coated Inserts 2381-1085		

16mm or 5/8

Metric:	Imperial:	Inserts
MGEHR1616H03	MGEHR5/8-03	MGMN300
SER1616H16	SER5/8-16	16ER AG60
SCLCR1616H09	SCLCR5/8-3	CCMT09T304(32.51)
SCLCL1616H09	SCLCL5/8-3	CCMT09T304(32.51)
SDJCR1616H11	SDJCR5/8-3	DCMT11T304(32.51)
Metric: Tin-Coated Inserts 2381-0087		
Imperial: Tin-Coated Inserts 2381-1087		

20mm or 3/4

Metric:	Imperial:	Inserts
MGEHR2020K03	MGEHR3/4-03	MGMN300
SER2020K16	SER3/4-16	16ER AG60
SCLCR2020K09	SCLCR3/4-3	CCMT09T304(32.51)
SCLCL2020K09	SCLCL3/4-3	CCMT09T304(32.51)
SDJCR2020K11	SDJCR3/4-3	DCMT11T304(32.51)
Metric: Tin-Coated Inserts 2381-0089		
Imperial: Tin-Coated Inserts 2381-1089		

Boring Bar Sets

Includes:
3PCS Boring Bar Sets
S-SCLCR
S-STFCR
S-SDQCR



8mm or 5/16		
Metric:	Imperial:	Inserts
S08H-SCLCR06	S05H-SCLCR2	CCMT060204(21.51)
S08H-STFCR09	S05H-STFCR1.8	TCMT090204 (1.8(1.5)1)
S08H-SDQCR07	S05H-SDQCR2	DCMT070204(21.51)
8mm Order No.2604-0001 Tin-Coated 2604-1001		
5/16 Order No.2604-0002 Tin-Coated 2604-1002		

10mm or 3/8		
Metric:	Imperial:	Inserts
S10K-SCLCR06	S06M-SCLCR2	CCMT060204(21.51)
S10K-STFCR11	S06M-STFCR2	TCMT110204(21.51)
S10K-SDQCR07	S06M-SDQCR2	DCMT070204(21.51)
10mm Order No.2604-0003 Tin-Coated 2604-1003		
3/8 Order No.2604-0004 Tin-Coated 2604-1004		

12mm or 1/2		
Metric:	Imperial:	Inserts
S12M-SCLCR06	S08Q-SCLCR2	CCMT060204(21.51)
S12M-STFCR11	S08Q-STFCR2	TCMT110204(21.51)
S12M-SDQCR07	S08Q-SDQCR2	DCMT070204(21.51)
12mm Order No.2604-0005 Tin-Coated 2604-1005		
1/2 Order No.2604-0006 Tin-Coated 2604-1006		

16mm or 5/8		
Metric:	Imperial:	Inserts
S16R-SCLCR09	S10R-SCLCR3	CCMT09T304(32.51)
S16R-STFCR16	S10R-STFCR3	TCMT16T304(32.51)
S16R-SDQCR11	S10R-SDQCR3	DCMT11T304(32.51)
16mm Order No.2604-0007 Tin-Coated 2604-1007		
5/8 Order No.2604-0008 Tin-Coated 2604-1008		

20mm or 3/4		
公制代号	英制代号	刀片
S20S-SCLCR09	S12S-SCLCR3	CCMT09T304(32.51)
S20S-STFCR16	S12S-STFCR3	TCMT16T304(32.51)
S20S-SDQCR11	S12S-SDQCR3	DCMT11T304(32.51)
20mm Order No.2604-0009 Tin-Coated 2604-1009		
3/4 Order No.2604-0010 Tin-Coated 2604-1010		

Indexable Tool Holders Sets

Internal Thread Turning Sets

Includes:
10Pcs Insert 16IR: A60,G60,AG60,8UN,12UN,
14UN,16UN,18UN,20UN,24UN Tin-Coated
1Pcs:Internal ToolHolders

Metric Size:	OAL	Order No.
S16M-THSNR/L16	150	2655-0100
S20P-THSNR/L16	170	2655-0101
S25R-THSNR/L16	200	2655-0102

Imperial Size:	OAL	Order No.
S10M-THSNR/L16	6	2655-0100
S12P-THSNR/L16	6.75	2655-0101
S16R-THSNR/L16	8	2655-0102



External Thread Turning Sets

Includes:
10Pcs Insert 16ER: A60,G60,AG60,8UN,12UN,
14UN,16UN,18UN,20UN,24UN Tin-Coated
1Pcs:External ToolHolders

Metric Size:	OAL	Order No.
SER1616H16	100	2651-0100
SER2020K16	125	2651-0101
SER2525M16	150	2651-0102

Imperial Size:	OAL	Order No.
SER0625H16	4	2651-0100
SER0750K16	5	2651-0101
SER1000M16	6	2651-0102



Internal and External Thread Turning Sets

Includes:
10Pcs Insert 16IR: A60,G60,AG60,8UN,12UN,
14UN,16UN,18UN,20UN,24UN Tin-Coated
10Pcs Insert 16ER: A60,G60,AG60,8UN,12UN,
14UN,16UN,18UN,20UN,24UN Tin-Coated
1Pcs:Internal Thread Turning
1Pcs:External Thread Turning

Size	Order No.
16mm	2656-0100
20mm	2656-0101
25mm	2656-0102

Size	Order No.
5/8	2656-0200
3/4	2656-0201
1	2656-0202

Indexable Tool Holders Sets

“3+2” 5Pcs Toolholders Sets

8mm & 5/16

型号		
公制	IMPERIAL	INSERTS
STGCR0808E09	STGCR05-1.8	TCMT090204(1.8 1.51)
STGCL0808E09	STGCL05-1.8	TCMT090204(1.8 1.51)
SER0808E08	SER0313-08	08ER A60
SIR0008H08	SIR0313H08	08IR A60
S08H-STFCR09	S05H-STFCR1.8	TCMT090204(1.8 1.51)
公制货号: Tin Coated Inserts 2380-2008		
Imperial: Tin Coated Inserts 2380-4008		



10mm & 3/8

型号		
公制	IMPERIAL	INSERTS
STGCR1010E11	STGCR06-2	TCMT110204(21.51)
STGCL1010E11	STGCL06-2	TCMT110204(21.51)
SER1010E11	SER0375-11	11ER A60
SIR0010K11	SIR0375K11	11IR A60
S10K-STFCR11	S06K-STFCR2	TCMT090204(21.51)
公制货号: Tin Coated Inserts 2380-2010		
Imperial: Tin Coated Inserts 2380-4010		

20mm & 3/4

型号		
公制	IMPERIAL	INSERTS
STGCR2020K16	STGCR12-3C	TCMT16T304(32.51)
STGCL2020K16	STGCL12-3C	TCMT16T304(32.51)
SER2020K16	SER0750C16	16ER AG60
SIR0020P16	SIR0750E16	16IR AG60
S20S-STFCR16	S12S-STFCR3	TCMT16T304(32.51)
公制货号: Tin Coated Inserts 2380-2013		
Imperial: Tin Coated Inserts 2380-4013		

12mm & 1/2

型号		
公制	IMPERIAL	INSERTS
STGCR1212H11	STGCR08-2A	TCMT110204(21.51)
STGCL1212H11	STGCL08-2A	TCMT110204(21.51)
SER1212H11	SER0500A11	11ER A60
SIR0012M11	SIR0500D11	11IR A60
S12M-STFCR11	S08M-STFCR2	TCMT090204(21.51)
公制货号: Tin Coated Inserts 2380-2011		
Imperial: Tin Coated Inserts 2380-4011		

25mm & 1

型号		
公制	IMPERIAL	INSERTS
STGCR2525M16	STGCR16-3D	TCMT16T304(32.51)
STGCL2525M16	STGCL16-3D	TCMT16T304(32.51)
SER2525M16	SER1000D16	16ER AG60
SIR0025R16	SIR1000R16	16IR AG60
S25T-STFCR16	S16R-STFCR3	TCMT16T304(32.51)
公制货号: Tin Coated Inserts 2380-2014		
Imperial: Tin Coated Inserts 2380-4014		

16mm & 5/8

型号		
公制	IMPERIAL	INSERTS
STGCR1616H11	STGCR10-2A	TCMT110204(21.51)
STGCL1616H11	STGCL10-2A	TCMT110204(21.51)
SER1616H11	SER0625A11	11ER A60
SIR0016M11	SIR0625D11	11IR A60
S16R-STFCR11	S10R-STFCR2	TCMT090204(21.51)
公制货号: Tin Coated Inserts 2380-2012		
Imperial: Tin Coated Inserts 2380-4012		

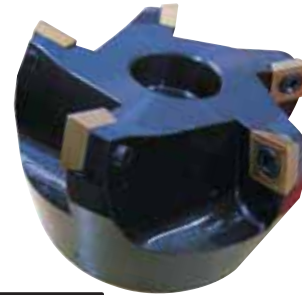
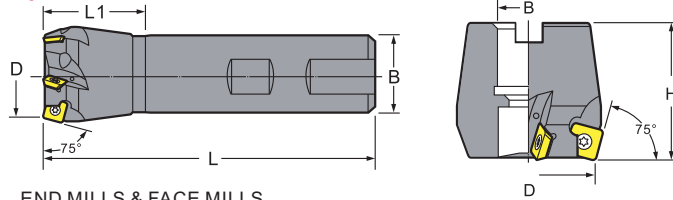


公制	IMPERIAL	Tin Coated Order No.
8mm	5/16	2380-0100
10mm	3/8	2380-0101
12mm	1/2	
16mm	5/8	
20mm	3/4	2380-0102
25mm	1	

Indexable Milling Cutter

75° Indexable End Mills and Face Mills

Style SSP75



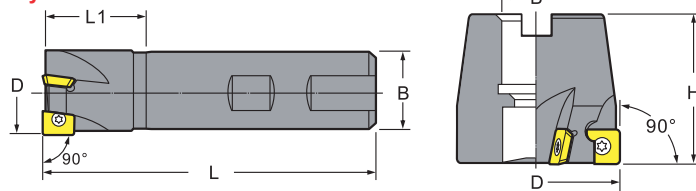
END MILLS & FACE MILLS

CUTTER				No.OF			TIN
D	B	L/H	L1	FLUTES	INSERTS	ORDER #	ORDER #
25	25	96	40	3	SD..09T3..	2527-0015	2527-1015
32	25	96	40	4	SD..09T3..	2527-0020	2527-1020
40	32	100	40	5	SD..09T3..	2527-0025	2527-1025
40	32	40	-	5	SD..09T3..	2527-0110	2527-1110
63	22	40	-	5	SD..09T3..	2527-0100	2527-1100
80	27	50	-	6	SD..09T3..	2527-0105	2527-1105

CUTTER				No.OF		TIN	
D	B	L/H	L1	FLUTES	INSERTS	ORDER #	ORDER #
1	1	3-3/4	1-1/2	3	SDMT32.51	2527-2015	2527-3015
1-1/4	1	3-3/4	1-1/2	4	SDMT32.51	2527-2020	2527-3020
1-1/2	1-1/4	4	1-1/2	5	SDMT32.51	2527-2025	2527-3025
1-1/2	3/4	1-1/2	-	5	SDMT32.51	2527-2110	2527-3110
2-1/2	7/8	1-1/2	-	5	SDMT32.51	2527-2100	2527-3100
3	1	2	-	6	SDMT32.51	2527-2105	2527-3105

90° Indexable End Mills and Face Mills

Style SSP90



Face Mills



END MILLS & FACE MILLS

CUTTER				No.OF			TIN
D	B	L/H	L1	FLUTES	INSERTS	ORDER #	ORDER #
25	25	96	40	3	SD..09T3..	2528-0015	2528-1015
32	25	96	40	4	SD..09T3..	2528-0020	2528-1020
40	32	100	40	5	SD..09T3..	2528-0025	2528-1025
40	32	40	-	5	SD..09T3..	2528-0110	2528-1110
63	22	40	-	5	SD..09T3..	2528-0100	2528-1100
80	27	50	-	6	SD..09T3..	2528-0105	2528-1105

CUTTER				No.OF		TIN	
D	B	L/H	L1	FLUTES	INSERTS	ORDER #	ORDER #
1	1	3-3/4	1-1/2	3	SDMT32.51	2528-2015	2528-3015
1-1/4	1	3-3/4	1-1/2	4	SDMT32.51	2528-2020	2528-3020
1-1/2	1-1/4	4	1-1/2	5	SDMT32.51	2528-2025	2528-3025
1-1/2	3/4	1-1/2	-	5	SDMT32.51	2528-2110	2528-3110
2-1/2	7/8	1-1/2	-	5	SDMT32.51	2528-2100	2528-3100
3	1	2	-	6	SDMT32.51	2528-2105	2528-3105

Carbide Insert

INSERTS	ORDER #	TIN ORDER #
SDMT09T304	2156-0015	2156-1015
SDMT09T308	2156-0020	2156-1020

End Mills



Indexable Milling Cutter

R8 Shank End Mills

FEATURES:

- * Positive rake 90° right hand cut.
- * Uses standard triangular inserts.
- * Cutting rake angle 0°.
- * Adaptable for N.C. Machining.
- * Axial rake angle 0°.
- * Setting angle 90°.



CUTTING DIA	SHANK DIA	No. OF Flute	LEAD	INSERTS USED	ORDER #	TIN ORDER #
1	3/4	1		SPGN421	2504-0062	2504-1062
1	R8	1		SPGN421	2504-0064	2504-1064
2	1	3		SPGN421	2504-0066	2504-1066
2	R8	3		SPGN421	2504-0068	2504-1068
2	1-1/4	3	15°	SPGN421	2504-0070	2504-1070
2-1/2	R8	5		SPGN421	2504-0072	2504-1072
2-1/2	1-1/4	5		SPGN421	2504-0074	2504-1074
3	R8	5		SPGN421	2504-0076	2504-1076
3	1-1/4	5		SPGN421	2504-0078	2504-1078
3/4	3/4	1		SPGN421	2504-0080	2504-1080
1	3/4	1		SPGN421	2504-0082	2504-1082
1	R8	1		SPGN421	2504-0084	2504-1084
1-1/4	3/4	1		SPGN421	2504-0086	2504-1086
1-1/4	R8	1		SPGN421	2504-0088	2504-1088
1-1/2	3/4	1		SPGN421	2504-0090	2504-1090
1-1/2	R8	1	45°	SPGN421	2504-0092	2504-1092
2	3/4	3		SPGN421	2504-0094	2504-1094
2	R8	3		SPGN421	2504-0096	2504-1096
2	1-1/4	3		SPGN421	2504-0098	2504-1098
2-1/2	R8	4		SPGN421	2504-0100	2504-1100
3	R8	5		SPGN421	2504-0102	2504-1102
3	1-1/4	5		SPGN421	2504-0104	2504-1104

90° End Mills

SHANK	CUTTING DIA	# OF INSERTS	INSERTS USED	ORDER #	TIN ORDER #
1/2(Weldon)	1/2	1	TPG-G22	2504-0002	2504-1002
	3/4	1	TPG-32	2504-0004	2504-1004
	3/4	2	TPG-22	2504-0006	2504-1006
	7/8	2	TPG-22	2504-0008	2504-1008
3/4(Weldon)	1	2	TPG-22	2504-0010	2504-1010
	1-1/4	2	TPG-32	2504-0012	2504-1012
	1-1/2	3	TPG-32	2504-0014	2504-1014
	1-3/4	3	TPG-32	2504-0016	2504-1016
	2	3	TPG-32	2504-0018	2504-1018
	1	2	TPG-22	2504-0020	2504-1020
	1-1/4	2	TPG-22	2504-0022	2504-1022
1"(Weldon)	1-1/2	3	TPG-32	2504-0024	2504-1024
	1-3/4	3	TPG-32	2504-0026	2504-1026
	2	3	TPG-32	2504-0028	2504-1028
30 STD	2	3	TPG-32	2504-0030	2504-1030
	2	3	TPG-32	2504-0032	2504-1032
40 STD	2-1/2	4	TPG-32	2504-0034	2504-1034
	3	5	TPG-32	2504-0036	2504-1036
	1	2	TPG-22	2504-0038	2504-1038
	1-1/4	2	TPG-32	2504-0040	2504-1040
	1-3/8	2	TPG-32	2504-0042	2504-1042
	1-1/2	3	TPG-32	2504-0044	2504-1044
	1-5/8	3	TPG-32	2504-0046	2504-1046
R8 Bridgeport Type	1-3/4	3	TPG-32	2504-0048	2504-1048
	2	3	TPG-32	2504-0050	2504-1050
	2-1/2	4	TPG-32	2504-0052	2504-1052
	2-3/4	5	TPG-32	2504-0054	2504-1054
	3	5	TPG-32	2504-0056	2504-1056
	3-1/2	6	TPG-32	2504-0058	2504-1058
	4	6	TPG-32	2504-0060	2504-1060

Indexable End Mills Sets

FEATURES:

- * 3 indexable end mills.
- * 2PCS hex wrenches.
- * Attractive hardwood block.
- * Packed in a specially designed box for protection in transit.



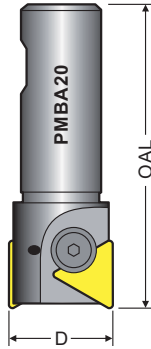
SETS

SHANK	INCLUDES	ORDER #	TIN ORDER #
3/4Weleon	3/4, 7/8, 1	2504-0900	2504-1900
3/4Weleon	1-1/4, 1-1/2, 2	2504-0900	2504-1900
1"Weleon	1-1/4, 1-1/2, 2	2504-0902	2504-1902
40 STD	2, 2-1/2, 3	2504-0904	2504-1904
R8	1, 1-1/4, 1-1/2	2504-0905	2504-1905
R8	2, 2-1/2, 3	2504-0907	2504-1907
R8	2, 2-1/4, 2-1/2	2504-0909	2504-1909
R8	1-1/4, 1-1/2, 2	2504-0906	2504-1906
R8	2, 2-1/2, 3	2504-0908	2504-1908
R8	2-3/4, 3, 3-1/2	2504-0910	2504-1910
15°	R8 2, 2-1/2, 3	2504-0912	2504-1912
	1-1/4 2, 2-1/2, 3	2504-0916	2504-1916
	R8 1-1/4, 1-1/2, 2	2504-0918	2504-1918
45°	R8 2, 2-1/2, 3	2504-0920	2504-1920
	3/4 1-1/4, 1-1/2, 2	2504-0922	2504-1922

Indexable Milling Cutter

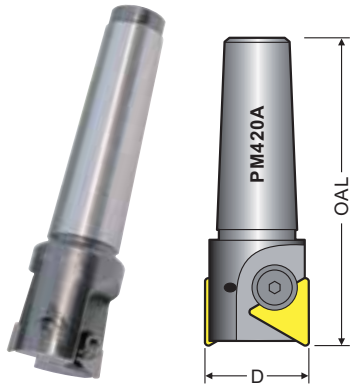
Indexable End Mills

Weldon Shank End Mill



MODEL #	CUTTING DIA	OAL	NO.OF Insert	SHANK DIA	INSERTS USED	ORDER #	TIN ORDER #
PMBA12	12	70	1	12	TPCN1103	2505-0002	2505-1002
PMBA14	14	70	1	12	TPCN1103	2505-0004	2505-1004
PMBA16	16	75	1	16	TPCN1103	2505-0006	2505-1006
PMBA18	18	75	1	16	TPCN1103	2505-0008	2505-1008
PMBA20	20	82	2	20	TPCN1103	2505-0010	2505-1010
PMBA22	22	82	2	20	TPCN1103	2505-0012	2505-1012
PMBA25	25	96	2	25	TPCN1103	2505-0014	2505-1014
PMBA28	28	96	2	25	TPCN1103	2505-0016	2505-1016
PMBA30	30	96	2	25	TPCN1103	2505-0018	2505-1018
PMBA32	32	100	2	32	TPCN1103	2505-0020	2505-1020
PMBA36	36	100	2	32	TPCN1603	2505-0022	2505-1022
PMBA40	40	110	3	32	TPCN1603	2505-0024	2505-1024
PMBA45	45	110	3	32	TPCN1603	2505-0026	2505-1026
PMBA50	50	110	3	32	TPCN2204	2505-0028	2505-1028

Morse Taper Shank End Mill



MODEL #	CUTTING DIA	OAL	NO.OF Insert	MORSE TAPER #	INSERTS USED	ORDER #	TIN ORDER #
PM412A	12	90	1	MT2	TPCN1103	2505-3002	2505-4002
PM414A	14	90	1	MT2	TPCN1103	2505-3004	2505-4004
PM416A	16	94	1	MT2	TPCN1103	2505-3006	2505-4006
PM418A	18	94	1	MT2	TPCN1103	2505-3008	2505-4008
PM420A	20	116	2	MT3	TPCN1103	2505-3010	2505-4010
PM422A	22	116	2	MT3	TPCN1103	2505-3012	2505-4012
PM425A	25	124	2	MT3	TPCN1103	2505-3014	2505-4014
PM428A	28	124	2	MT3	TPCN1103	2505-3016	2505-4016
PM430A	30	124	2	MT3	TPCN1103	2505-3018	2505-4018
PM432A	32	124	2	MT3	TPCN1103	2505-3020	2505-4020
PM436A	36	157	2	MT3	TPCN1603	2505-3022	2505-4022
PM440A	40	157	3	MT4	TPCN1603	2505-3024	2505-4024
PM445A	45	157	3	MT4	TPCN1603	2505-3026	2505-4026
PM450A	50	157	3	MT4	TPCN2204	2505-3028	2505-4028



3PC SETS INCLUDES: 3PC SETS INCLUDES:

- * Weldon shank.
 - * One of each diameter: 12mm, 16mm, 18mm
 - * 1 Torx Keys.
 - * With wooden case.
 - Order No.2505-0900**
 - Order No.2505-0910(Inserts Tin)**
- * Morse shank.
 - * One of each diameter: 20mm, 30mm, 40mm
 - * 1 Torx Keys.
 - * With wooden case.
 - Order No.2505-0911**
 - Order No.2505-1911(Inserts Tin)**
- * Weldon shank.
 - * One of each diameter: 20mm, 22mm, 25mm
 - * 1 Torx Keys.
 - * With wooden case.
 - Order No.2505-0920**
 - Order No.2505-0930(Inserts Tin)**
- * Weldon shank.
 - * One of each diameter: 20mm, 30mm, 40mm
 - * 1 Torx Keys.
 - * With wooden case.
 - Order No.2505-0912**
 - Order No.2505-1912(Inserts Tin)**



INSERTS USED	SCREW USED	ORDER #
TPCN1103	MS5	2995-0050
TPCN1603	MS6075	2995-0067
TPCN2204	MS810	2995-0081

Indexable Milling Cutter

NT Shank End Mills

TPGN, TPUN, TPCN



MODEL #	CUTTING DIA	OAL	NO.OF Flute	Taper Shank	INSERTS USED	UN Coated Order No.	Tin Coated Order No.
PT20A	20	116	2	30#, 40#, 50#	TP.N1103	2505-3120	2505-4120
PT22A	22	116	2		TP.N1103	2505-3122	2505-4122
PT25A	25	124	2		TP.N1103	2505-3124	2505-4124
PT28A	28	124	2		TP.N1103	2505-3126	2505-4126
PT30A	30	124	2		TP.N1103	2505-3128	2505-4128
PT32A	32	124	2		TP.N1103	2505-3130	2505-4130
PT36A	36	157	2		TP.N1603	2505-3132	2505-4132
PT40A	40	157	3		TP.N1603	2505-3134	2505-4134
PT45A	45	157	3		TP.N1603	2505-3136	2505-4136
PT50A	50	157	3		TP.N2204	2505-3138	2505-4138
PT63A	63	157	3		TP.N2204	2505-3140	2505-4140
PT80A	80	157	3		TP.N2204	2505-3142	2505-4142

MODEL #	CUTTING DIA	OAL	NO.OF Flute	Taper Shank	INSERTS USED	UN Coated Order No.	Tin Coated Order No.
PT3/4A	3/4	4-1/2	2	30#, 40#, 50#	TP.N222	2505-3210	2505-4210
PT7/8A	7/8	4-1/2	2		TP.N222	2505-3212	2505-4212
PT1A	1	5	2		TP.N222	2505-3214	2505-4214
PT1-1/8A	1-1/8	5	2		TP.N222	2505-3216	2505-4216
PT1-1/4A	1-1/4	5	2		TP.N222	2505-3218	2505-4218
PT1-1/2A	1-1/2	5	2		TP.N322	2505-3220	2505-4220
PT1-3/4A	1-3/4	6	3		TP.N322	2505-3226	2505-4226
PT2A	2	6	3		TP.N432	2505-3228	2505-4228
PT2-1/2A	2-1/2	6	3		TP.N432	2505-3230	2505-4230
PT3A	3	6	3		TP.N432	2505-3232	2505-4232



3件套:

- 各一件尺寸不同的产品:
30mm, 40mm, 50mm
- 1件扳手.

N.M.T.B 30#
 货号.2505-0913
 货号.2505-1913(镀钛)
N.M.T.B 40#
 货号.2505-0915
 货号.2505-1915(镀钛)

- One of each diameter:
1", 1-1/2", 2"
- 1 Torx Keys.

N.M.T.B 30#
 Order No.2505-0920
 Order No.2505-1920(Inserts Tin)
N.M.T.B 40#
 Order No.2505-0922
 Order No.2505-1922(Inserts Tin)

紧固刀片用螺钉代号



螺钉	货号	刀片
MS5	2995-0050	TPCN1103
MS6075	2995-0067	TPCN1603
MS810	2995-0081	TPCN2204

Indexable Milling Cutter

Mini Indexable End Mills

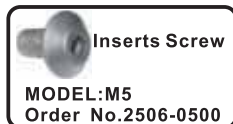
MINIATURE SERIES
Triangle Insert Positive Rake 90° Cut



FEATURES:
* One clamp fits all sizes.
* Uses standard TPG 220 series inserts.
* Fine surface finishes.

CUTTING DIA	SHANK DIA	NO.OF Flutr	OAL	UN Coated Order No.	Tin Coated Order No.
1/2	1/2	1	3	2506-0010	2506-1010
9/16	1/2	1	3	2506-0012	2506-1012
5/8	1/2	1	3	2506-0014	2506-1014

CUTTING DIA	SHANK DIA	NO.OF Flutr	OAL	UN Coated Order No.	Tin Coated Order No.
12	12	1	76	2506-3010	2506-4010
15	12	1	76	2506-3012	2506-4012
18	12	1	76	2506-3014	2506-4014



1/2 Shank Sets

Contains 1 Piece of Each:
1/2", 9/16", 5/8"
Torx Wrench Included.
Supplied in wood Block.
Order No.2506-0900
Order No.2506-0910(Insert Tin)

Contains 1 Piece of Each:
12mm, 15mm, 18mm
Torx Wrench Included.
Supplied in wood Block.
Order No. 2506-1900
Order No. 2506-1910(Insert Tin)

Little Hogger End Mills



IMPERIAL

CUTTING DIA	SHANK DIA	No.OF Flutr	INSERT	UN Coated Order No.	Tin Coated Order No.
1	3/4	2	TNMA322	2507-0010	2507-1010
1	3/4	2	SNMA322	2507-0012	2507-1012
1	3/4	2	RNMA322	2507-0014	2507-1014

CUTTING DIA	SHANK DIA	No.OF Flutr	INSERT	UN Coated Order No.	Tin Coated Order No.
25	20	2	TNMA160308	2507-3010	2507-4010
25	20	2	SNMA090308	2507-3012	2507-4012
25	20	2	RNMA090300	2507-3014	2507-4014



3 件套包括:

- 45°, 90°, 3/16R 各一件
- SNMA, TNMA, RNMA.

Imperial Order No. 2507-0900
Imperial Order No. 2507-1900(Carbide Tin)
货号: 2507-0910
货号: 2507-1910(镀钛)

Indexable Milling Cutter

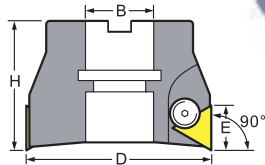
90° Indexable Face Mills

STP90



螺钉代号
MS6075
MS810

货号
2995-0067
2995-0081

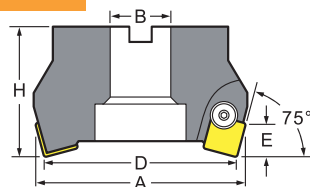


	CUTTER	HOLE			No.OF				TIN
MODEL	D	B	H	E	FLUTE	INSERTS	SCREW	ORDER #	ORDER #
STP1-1/2	1-1/2	.50	1.57	.511	3	TP..322	MS6075	2524-0010	2524-1010
STP2	2	.75	1.57	.511	3	TP..322	MS6075	2524-0015	2524-1015
STP2-1/2	2-1/2	.75	1.57	.511	4	TP..322	MS6075	2524-0020	2524-1020
STP3	3	1.00	1.97	.511	5	TP..322	MS6075	2524-0025	2524-1025
STP4	4	1.50	1.97	.700	5	TP..432	MS810	2524-0030	2524-1030
STP5	5	1.50	2.48	.700	6	TP..432	MS810	2524-0035	2524-1035
STP6	6	2.00	2.48	.700	7	TP..432	MS810	2524-0040	2524-1040

	CUTTER	HOLE			No.OF				TIN
MODEL	D	B	H	E	FLUTE	INSERTS	SCREW	ORDER #	ORDER #
STP40	40	16	42	14.5	3	TP..1603	MS6075	2524-3015	2524-4015
STP50	50	22	45	14.5	4	TP..1603	MS6075	2524-3020	2524-4020
STP63	63	22	48	14.5	4	TP..1603	MS6075	2524-3025	2524-4025
STP80	80	27	50	14.5	5	TP..1603	MS6075	2524-3030	2524-4030
STP100	100	32	50	18	5	TP..2204	MS810	2524-3035	2524-4035
STP125	125	40	60	18	6	TP..2204	MS810	2524-3040	2524-4040
STP160	160	40	60	18	7	TP..2204	MS810	2524-3045	2524-4045

75° Indexable Face Mills

SSP75



CUTTING	BORE				No.OF			TIN
D	B	H	A	E	Flute	INSERT	ORDER #	ORDER #
2	3/4	1.57	2.98	.354	4	SP..42	2509-0010	2509-1010
2-1/2	3/4	1.57	2.98	.354	4	SP..42	2509-0010	2509-1010
3	1	1.97	3.65	.354	5	SP..42	2509-0012	2509-1012
4	1-1/2	1.97	4.43	.354	6	SP..42	2509-0014	2509-1014
5	1-1/2	2.48	5.42	.354	6	SP..42	2509-0016	2509-1016

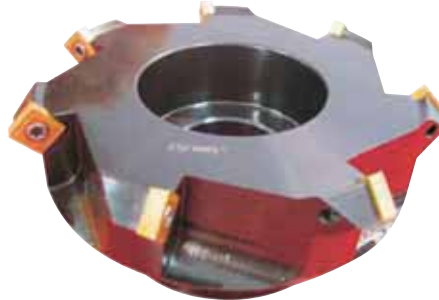
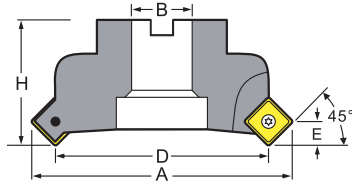
CUTTING	BORE				No.OF			TIN
D	B	H	A	E	Flute	INSERT	ORDER #	ORDER #
50	22	45	56	9	3	SP..1203	2509-3010	2509-4010
63	22	48	69	9	4	SP..1203	2509-3012	2509-4012
80	27	50	86	9	5	SP..1203	2509-3014	2509-4014
100	32	50	106	9	6	SP..1203	2509-3016	2509-4016
125	40	60	131	9	6	SP..1203	2509-3018	2509-4018



螺钉代号:CT095-2/1
ORDER No.
2995-0950

Indexable Milling Cutter

45° Indexable Face Mills



CUTTING D	BORE B	H	A	E	No.OF Flute	INSERT	UN Coated Order No.	Tin Coated Order No.
2	3/4	1.57	2.46	.236	4	SCMT432	2510-0010	2510-1010
3	1	1.97	3.65	.236	6	SCMT432	2510-0012	2510-1012
3-1/2	1	1.97	4.00	.236	6	SCMT432	2510-0014	2510-1014
4	1-1/2	1.97	4.43	.236	6	SCMT432	2510-0016	2510-1016
5	1-1/2	2.48	5.42	.236	7	SCMT432	2510-0018	2510-1018

CUTTING D	BORE B	H	A	E	No.OF Flute	INSERT	UN Coated Order No.	Tin Coated Order No.
50	22	45	66	6	4	SCMT1204	2510-3010	2510-4010
63	27	50	79	6	5	SCMT1204	2510-3012	2510-4012
80	32	60	96	6	6	SCMT1204	2510-3014	2510-4014
100	40	70	116	6	7	SCMT1204	2510-3016	2510-4016

45° Indexable Face Mills

SSP45



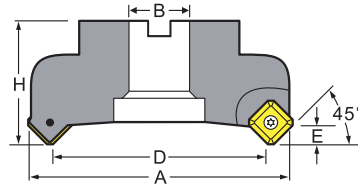
CUTTER D	HOLE B	H	A	E	No.OF FLUTE	INSERTS	UN Coated Order No.	Tin Coated Order No.
2	.75	1.57	2.46	.236	4	SE..42	2525-0015	2525-1015
2-1/2	.75	1.57	2.98	.236	5	SE..42	2525-0020	2525-1020
3	1.00	1.97	3.65	.236	6	SE..42	2525-0025	2525-1025
4	1.50	1.97	4.43	.236	6	SE..42	2525-0030	2525-1030
5	1.50	2.48	5.42	.236	7	SE..42	2525-0035	2525-1035

CUTTER D	HOLE B	H	A	E	No.OF FLUTE	INSERTS	UN Coated Order No.	Tin Coated Order No.
50	22	45	63	6	4	SE..1203	2525-3015	2525-4015
63	22	48	76	6	5	SE..1203	2525-3020	2525-4020
80	27	48	93	6	6	SE..1203	2525-3025	2525-4025
100	32	48	113	6	6	SE..1203	2525-3030	2525-4030
125	40	50	138	6	7	SE..1203	2525-3035	2525-4035
160	40	50	173	6	8	SE..1203	2525-3040	2525-4040

45° Indexable Face Mills

Style SE45

High efficiency and economical milling
45° lead angle
Right hand cutting



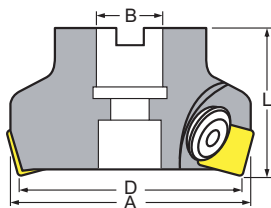
ICHN

CUTTING D	BORE B	H	A	E	No.OF Flute	INSERT	UN Coated Order No.	Tin Coated Order No.
2	3/4	1.57	2.46	.236	4	SE..432	2511-0010	2511-1010
2-1/2	3/4	1.57	2.98	.236	5	SE..432	2511-0012	2511-1012
3	1	1.97	3.65	.236	6	SE..432	2511-0014	2511-1014
4	1-1/2	1.97	4.43	.236	6	SE..432	2511-0016	2511-1016
5	1-1/2	2.48	5.42	.236	7	SE..432	2511-0018	2511-1018

CUTTING D	BORE B	H	A	E	No.OF Flute	INSERT	UN Coated Order No.	Tin Coated Order No.
50	22	50	62	6	4	SE..1204	2511-3010	2511-4010
63	22	50	75	6	5	SE..1204	2511-3012	2511-4012
80	27	50	92	6	6	SE..1204	2511-3014	2511-4014
100	32	50	112	6	6	SE..1204	2511-3016	2511-4016

75° Indexable Face Mills

Style SP75



ICHN

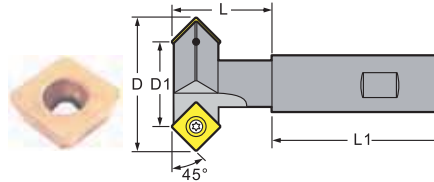
CUTTING D	A	L	HOLE B	No.OF Flute	No.OF INSERTS	ORDER #	Tin ORDER #
2	2.2	1.57	3/4	3	SPCN42	2512-0010	2512-1010
2-1/2	2.7	1.57	3/4	4	SPCN42	2512-0012	2512-1012
3	3.2	1.97	1	5	SPCN42	2512-0014	2512-1014
4	4.2	1.97	1-1/4	5	SPCN42	2512-0016	2512-1016
4	4.2	1.97	1-1/2	5	SPCN42	2512-0018	2512-1018
5	5.2	2.48	1-1/2	6	SPCN42	2512-0020	2512-1020

METRIC

CUTTING D	A	L	HOLE B	No.OF Flute	No.OF INSERTS	ORDER #	Tin ORDER #
50	55	40	22	3	SPCN1203	2512-3010	2512-4010
63	68	40	22	4	SPCN1203	2512-3012	2512-4012
80	85	50	27	5	SPCN1203	2512-3014	2512-4014
100	105	50	32	5	SPCN1203	2512-3016	2512-4016
125	130	63	40	6	SPCN1203	2512-3018	2512-4018

Indexable Milling Cutter

Double Angle Indexable End Mills



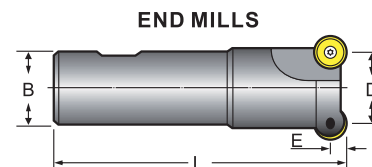
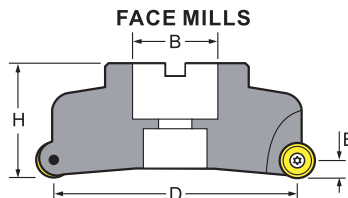
CUTTING		SHANK		HEAD	SHANK	No.OF		TIN	
D	D1	d	L	L1	FLUTES	INSERTS	ORDER #	ORDER #	
.81	.31	.75	1.00	2.06	1	SD..322	2519-0010	2519-1010	
1.00	.58	.50	.46	2.48	2	SP..25.22	2519-0012	2519-1012	
1.25	.75	.625	.56	2.38	2	SD..322	2519-0014	2519-1014	
1.38	.88	.75	.56	2.94	2	SD..322	2519-0016	2519-1016	
1.50	1.00	.75	.60	2.94	2	SD..322	2519-0018	2519-1018	
1.75	1.07	1.00	.74	3.20	2	SD..422	2519-0020	2519-1020	
2.00	1.32	1.00	.74	3.20	3	SD..422	2519-0022	2519-1022	

CUTTER	SHANK	Max.Cut	Head	No.OF	TIN	
DIA	Size	Depth	Length	FLUTES	INSERTS	ORDER #
10	16	6.5	33	1	SD..0903	2519-3010
12	16	6.5	33	1	SD..0903	2519-3012
16	16	6.5	26	1	SD..0903	2519-3014
20	20	6.5	31	2	SD..0903	2519-3016
25	25	9.0	39	2	SD..1204	2519-3018
32	32	9.0	39	3	SD..1204	2519-3020



R TYPE Indexable Mills

Style SSR90



CUTTING		No.OF		TIN	
D	B	L	E	FLUTES	INSERTS
1-1/4	1.25	6.00	.236	2	RC..43
1-1/2	1.50	6.25	.236	3	RC..43
2	2.00	4.00	.236	4	RC..43
25mm	25mm	96mm	6	2	RCMT1204
32	32	100	6	3	RCMT1204
40	32	110	6	4	RCMT1204

CUTTING		No.OF		TIN	
D	B	H	E	FLUTES	INSERTS
2	.75	1.97	.236	4	RC..43
3	1.00	1.97	.236	6	RC..43
4	1.50	1.97	.236	7	RC..43
5	1.50	2.48	.236	7	RP..43
50mm	22	45	6	4	RCMT1204
63	27	50	6	5	RCMT1204
80	32	60	6	6	RCMT1204

Indexable Milling Cutter

Indexable Countersink



Cutter Dia	Min~Max	Shank	Inserts	Screw	Order No	Tin-Coated Order No
60° Point Angle						
6~20	12		TCMT1604	MLD-M40	2516-2010	2516-3010
12~45	12		SCMT1204	MLD-M40	2516-2012	2516-3012
32~62	20		SCMT1204	MLD-M50	2516-2014	2516-3014
82° Point Angle						
6~20	12		TCMT1604	MLD-M40	2516-2016	2516-3016
12~45	12		SCMT1204	MLD-M40	2516-2018	2516-3018
32~62	20		SCMT1204	MLD-M50	2516-2020	2516-3020
90° Point Angle						
6~20	12		TCMT1604	MLD-M40	2516-2026	2516-3026
12~45	12		SCMT1204	MLD-M40	2516-2028	2516-3028
32~62	20		SCMT1204	MLD-M50	2516-2030	2516-3030
100° Point Angle						
6~20	12		TCMT1604	MLD-M40	2516-2032	2516-3032
12~45	12		SCMT1204	MLD-M40	2516-2034	2516-3034
32~62	20		SCMT1204	MLD-M50	2516-2036	2516-3036

CUTTER	Min~Max	SHANK	Inserts	SCREW	ORDER #	TIN ORDER #
60° Point Angle						
1/8~1/2	3/8		TCMT221	MLD-M25	2516-0008	2516-1008
1/4~3/4	1/2		TCMT32.51	MLD-M40	2516-0010	2516-1010
1/2~1-3/4	1/2		SCMT431	MLD-M50	2516-0012	2516-1012
1-1/4~2-1/4	3/4		SCMT431	MLD-M50	2516-0014	2516-1014
82° Point Angle						
1/8~1/2	3/8		TCMT221	MLD-M25	2516-0016	2516-1016
1/4~3/4	1/2		TCMT32.51	MLD-M40	2516-0018	2516-1016
1/2~1-3/4	1/2		SCMT431	MLD-M50	2516-0020	2516-1018
1-1/4~2-1/4	3/4		SCMT431	MLD-M50	2516-0022	2516-1020
90° Point Angle						
1/8~1/2	3/8		TCMT221	MLD-M25	2516-0024	2516-1026
1/4~3/4	1/2		TCMT32.51	MLD-M40	2516-0026	2516-1026
1/2~1-3/4	1/2		SCMT431	MLD-M50	2516-0028	2516-1028
1-1/4~2-1/4	3/4		SCMT431	MLD-M50	2516-0030	2516-1030
100° Point Angle						
1/8~1/2	3/8		TCMT221	MLD-M25	2516-0032	2516-1032
1/4~3/4	1/2		TCMT32.51	MLD-M40	2516-0034	2516-1032
1/2~1-3/4	1/2		SCMT431	MLD-M50	2516-0036	2516-1034
1-1/4~2-1/4	3/4		SCMT431	MLD-M50	2516-0038	2516-1036



INCLUDED:

- * 1/4, 1/2, 1-1/4(MIN)
- * 2pcs Wrenches
- * 6mm, 12mm, 32mm(MIN)
- * 2pcs Wrenches

		60°		82°		90°	
TYPE	PIECE	ORDER #	TIN ORDER #	ORDER #	TIN ORDER #	ORDER #	TIN ORDER #
INCH	3 PIECE SET	2516-0900	2515-1900	2516-0902	2515-1902	2516-0904	2515-1904
METRIC	3 PIECE SET	2516-0910	2515-1910	2516-0912	2515-1912	2516-0914	2515-1914

Indexable Milling Cutter

Indexable Side Mills

Style LBQX



INSERTS:



LBQX-3 Order No.2529-3001
TIN-Coated 2529-3100
LBQX-4 Order No.2529-3001
TIN-Coated 2529-3101

INSERTS SCREW:



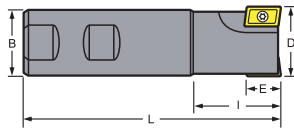
SM35-06 ORDER No.2995-0356
SM35-07 ORDER No.2995-0357
SM35-09 ORDER No.2995-0359

CUTTER DIA	WIDTH	HOLE DIA	No.OF FLUTES	INSERTS	INSERTS SCREWS	ORDER #	TIN ORDER #
100	6	27	10	LBQX-3	SM35-06	2529-0006	2529-1006
100	8	27	10	LBQX-4	SM35-07	2529-0008	2529-1008
100	10	27	9	LBQX-4	SM35-07	2529-0010	2529-1010
100	12	27	9	LBQX-4	SM35-09	2529-0012	2529-1012
125	6	40	12	LBQX-3	SM35-06	2529-0014	2529-1014
125	8	40	12	LBQX-4	SM35-07	2529-0016	2529-1016
125	10	40	12	LBQX-4	SM35-07	2529-0018	2529-1018
125	12	40	12	LBQX-4	SM35-09	2529-0020	2529-1020
160	6	40	16	LBQX-3	SM35-06	2529-0022	2529-1022
160	8	40	16	LBQX-4	SM35-07	2529-0024	2529-1024
160	10	40	15	LBQX-4	SM35-07	2529-0026	2529-1026
160	12	40	15	LBQX-4	SM35-09	2529-0028	2529-1028
200	6	50	18	LBQX-3	SM35-06	2529-0030	2529-1030
200	8	50	18	LBQX-4	SM35-07	2529-0032	2529-1032
200	10	50	18	LBQX-4	SM35-07	2529-0034	2529-1034
200	12	50	18	LBQX-4	SM35-09	2529-0036	2529-1036
250	8	60	22	LBQX-4	SM35-07	2529-0038	2529-1038
250	10	60	21	LBQX-4	SM35-07	2529-0040	2529-1040
250	12	60	21	LBQX-4	SM35-09	2529-0042	2529-1042
315	8	60	24	LBQX-4	SM35-07	2529-0044	2529-1044
315	10	60	24	LBQX-4	SM35-07	2529-0046	2529-1046
315	12	60	24	LBQX-4	SM35-09	2529-0048	2529-1048

CUTTER DIA	WIDTH	HOLE DIA	No.OF FLUTES	INSERTS	INSERTS SCREWS	ORDER #	TIN ORDER #
4	1/4	1	10	LBQX-3	SM35-06	2530-0006	2530-1006
4	5/16	1	10	LBQX-4	SM35-07	2530-0008	2530-1008
4	3/8	1	9	LBQX-4	SM35-07	2530-0010	2530-1010
4	1/2	1	9	LBQX-4	SM35-09	2530-0012	2530-1012
5	1/4	1-1/2	12	LBQX-3	SM35-06	2530-0014	2530-1014
5	5/16	1-1/2	12	LBQX-4	SM35-07	2530-0016	2530-1016
5	3/8	1-1/2	12	LBQX-4	SM35-07	2530-0018	2530-1018
5	1/2	1-1/2	12	LBQX-4	SM35-09	2530-0020	2530-1020
6	1/4	1-1/2	16	LBQX-3	SM35-06	2530-0022	2530-1022
6	5/16	1-1/2	16	LBQX-4	SM35-07	2530-0024	2530-1024
6	3/8	1-1/2	15	LBQX-4	SM35-07	2530-0026	2530-1026
6	1/2	1-1/2	15	LBQX-4	SM35-09	2530-0028	2530-1028
8	1/4	2	18	LBQX-3	SM35-06	2530-0030	2530-1030
8	5/16	2	18	LBQX-4	SM35-07	2530-0032	2530-1032
8	3/8	2	18	LBQX-4	SM35-07	2530-0034	2530-1034
8	1/2	2	18	LBQX-4	SM35-09	2530-0036	2530-1036
10	5/16	2-1/2	22	LBQX-4	SM35-07	2530-0038	2530-1038
10	3/8	2-1/2	21	LBQX-4	SM35-07	2530-0040	2530-1040
10	1/2	2-1/2	21	LBQX-4	SM35-09	2530-0042	2530-1042
12	5/16	2-1/2	24	LBQX-4	SM35-07	2530-0044	2530-1044
12	3/8	2-1/2	24	LBQX-4	SM35-07	2530-0046	2530-1046
12	1/2	2-1/2	24	LBQX-4	SM35-09	2530-0048	2530-1048

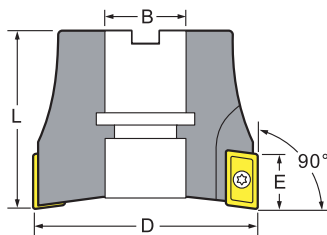
Indexable End Mills and Face Mills

Style SSA90



D	B	I	L	No.OF Flute	Inserts	Tin-Coated Order No	TiALN-Coated Order No
3/8	1/2	1-3/16	3	1	APKT11T3	2526-0002	2526-1002
1/2	1/2	1-3/16	3-1/4	1	APKT11T3	2526-0004	2526-1004
1/2	5/8	1-5/16	3-1/4	1	APKT11T3	2526-0006	2526-1006
5/8	5/8	1-3/8	3-1/4	2	APKT11T3	2526-0008	2526-1008
3/4	3/4	1-7/16	3-1/2	3	APKT11T3	2526-0010	2526-1010
1	1	1-7/16	3-3/4	4	APKT11T3	2526-0015	2526-1015
1	1	1-7/16	3-3/4	2	APKT1604	2526-0016	2526-1016
1-1/4	1-1/4	1-7/16	3-3/4	3	APKT1604	2526-0020	2526-1020
1-1/4	1-1/2	1-1/2	4-1/4	6	APKT11T3	2526-0021	2526-1021
1-1/2	1-1/2	1-1/2	4-1/4	3	APKT1604	2526-0025	2526-1025

D	B	I	L	No.OF Flute	Inserts	Tin-Coated Order No	TiALN-Coated Order No
10	12	30	85	1	APKT11T3	2526-0100	2526-1100
12	12	30	85	1	APKT11T3	2526-0101	2526-1101
16	16	30	85	2	APKT11T3	2526-0102	2526-1102
20	20	35	90	3	APKT11T3	2526-0103	2526-1103
25	25	35	90	4	APKT11T3	2526-0104	2526-1104
25	25	35	95	2	APKT1604	2526-0105	2526-1105
32	32	40	105	6	APKT11T3	2526-0106	2526-1106
32	32	40	105	3	APKT1604	2526-0107	2526-1107
40	40	40	115	3	APKT1604	2526-0108	2526-1108



Cutter D	B	L	No.OF Flute	Inserts	Tin-Coated Order No	TiALN-Coated Order No
2	3/4	1-3/4	5	APKT1604	2526-3015	2526-4015
2-1/2	3/4	2	6	APKT1604	2526-3020	2526-4020
3	1	2	7	APKT1604	2526-3025	2526-4025
4	1-1/2	2	8	APKT1604	2526-3030	2526-4030
5	1-1/2	2	8	APKT1604	2526-3035	2526-4035
6	2	2-31/64	10	APKT1604	2526-3040	2526-4040
8	2-1/2	2-31/64	12	APKT1604	2526-3045	2526-4045

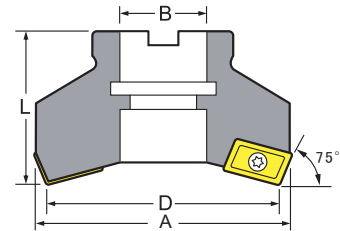
Cutter D	B	L	No.OF Flute	Inserts	Tin-Coated Order No	TiALN-Coated Order No
40	16	40	4	APKT1604	2526-3100	2526-4100
50	22	45	5	APKT1604	2526-3105	2526-4105
63	22	50	6	APKT1604	2526-3110	2526-4110
80	27	60	6	APKT1604	2526-3115	2526-4115
100	32	70	8	APKT1604	2526-3120	2526-4120
125	40	70	10	APKT1604	2526-3125	2526-4125
160	40	70	12	APKT1604	2526-3130	2526-4130

Indexable Milling Cutter

75° Indexable Face Mills

Style SSA75

- *Suitable for general purpose face milling
- *Surface milling for medium roughing on both CNC and manual milling machine
- *Extends the life of already used APKT insert by using the two unused edge of the insert which typically is used in a 90 degree end mill cutter



D	A	B	L	No.OF Flute	Inserts	Tin-Coated Order No	TiALN-Coated Order No
2-1/2	2.71	3/4	1.57	4	APKT1604	2527-0001	2527-1001
3	3.21	1	1.97	5	APKT1604	2527-0002	2527-1002
4	4.21	1-1/4	1.97	6	APKT1604	2527-0003	2527-1003
4	4.21	1-1/2	1.97	6	APKT1604	2527-0004	2527-1004
2-1/2	2.71	3/4	1.57	4	APTK1003	2527-0005	2527-1005
3	3.21	1	1.97	5	APKT1003	2527-0006	2527-1006
4	4.21	1-1/4	1.97	6	APKT1003	2527-0007	2527-1007
4	4.21	1-1/2	1.97	6	APKT1003	2527-0008	2527-1008

45° Intexable Face Mills Octagonal Double Side

Style SSO45

- *Octagonal double side insert with 16 cutting edges is the most economical insert on the market for face machining application
- *Negative radial rake angle and axial rake angle structure combined with thick ONHU insert body improves cutter overall resistance to impact and toughness
- *Unique insert screw hole design to improve clamping rigidity
- *Screw insert clamping
- *Depth of cut up to 5 mm
- *Suitable for steel, stainless steel and cast iron
- *Inserts available for finishing, semi-finishing and roughing application

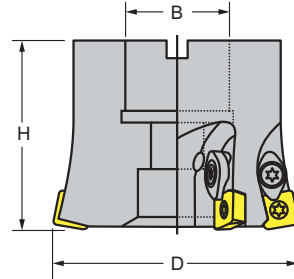


D	A	B	L	No.OF Flute	Inserts	Tin-Coated Order No	TiALN-Coated Order No
2-1/2	3.03	3/4	1-3/4	5	ONHU08	2530-0001	2530-1001
3	3.53	1	2	6	ONHU08	2530-0002	2530-1002
4	4.53	1-1/4	2-1/2	7	ONHU08	2530-0003	2530-1003
4	4.53	1-1/2	2-1/2	7	ONHU08	2530-0004	2530-1004
5	5.53	1-1/2	2-1/2	8	ONHU08	2530-0005	2530-1005



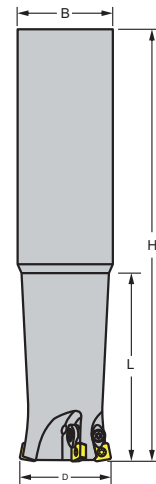
Inserts	For Material	Tin-Coated Order No	TiALN-Coated Order No
ONMU08TX08PM	Steel, Stainless Steel	2145-0006	
ONMU08TX08PM	Cast Iron		2145-1006

HIGH FEED FACE MILLS AND END MILLS



D	B	H	No.OF Flute	Inserts	Order No.
2	3/4	1.57	4	SDMT32.53	2533-0001
2-1/2	3/4	1.57	5	SDMT32.53	2533-0002
3	1	1.97	5	SDMT433	2533-0003
4	1-1/4	1.97	6	SDMT433	2533-0004
4	1-1/2	1.97	6	SDMT433	2533-0005
50	22	40	4	SDMT09T3	2533-0050
63	22	40	5	SDMT09T3	2533-0051
80	27	50	5	SDMT09T3	2533-0052
100	32	50	6	SDMT09T3	2533-0053

D	B	L	H	No.OF Flute	Inserts	Order No.
1	1	2-1/4	5-1/2	2	SDMT32.5	2534-0001
1-1/4	1-1/4	2-3/4	6	3	SDMT32.5	2534-0002
1-1/2	1-1/4	2-3/4	6	3	SDMT32.5	2534-0003
1-1/2	1-1/2	2-3/4	6	2	SDMT43	2534-0004
25	25	55	140	2	SDMT09T3	2534-0050
32	32	60	150	3	SDMT09T3	2534-0051
40	32	60	150	3	SDMT09T3	2534-0052
40	40	60	150	2	SDMT1204	2534-0053



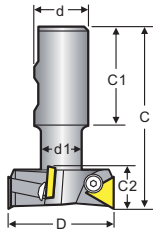
R8 Shank Indexable End Mills

90° End Mills

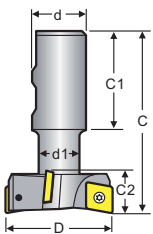
MODEL	CUTTING DIA	# OF INSERTS	INSERTS USED	TIN ORDER #	TiALN-Coated ORDER #
1×R8AP16	1	2	APKT1604	2504-0100	2504-1100
1-1/4×R8AP16	1-1/4	3	APKT1604	2504-0102	2504-1102
1-1/2×R8AP16	1-1/2	4	APKT1604	2504-0104	2504-1104
1-3/4×R8AP16	1-3/4	5	APKT1604	2504-0106	2504-1106
2×R8AP16	2	5	APKT1604	2504-0108	2504-1108
2-1/2×R8AP16	2-1/2	6	APKT1604	2504-0110	2504-1110
2-3/4×R8AP16	2-3/4	6	APKT1604	2504-0112	2504-1112
3×R8AP16	3	6	APKT1604	2504-0114	2504-1114

Indexable Milling Cutter

T-Slot Mills



BOLT d1	CUTTING D	SHANK d	NECK d1	SHANK C1	CUTTING C2	OAL C	# OF INSERTS	INSERTS USED	RIGHT ORDER #	LEFT ORDER #
3/4	1-15/32	1	2-9/32	25/32	5/8	4-7/16	2	TPG222	2503-0002	2503-1002
1	1-27/32	1-1/4	2-9/32	1-1/32	53/64	4-13/16	4	TPG322	2503-0004	2503-1004
1-1/4	2-7/32	1-1/4	2-9/32	1-9/32	1-3/32	5-3/8	4	TPG322	2503-0006	2503-1006
1-1/2	2-21/32	1-1/4	2-9/32	1-17/32	1-11/32	5-29/32	4	TPG433	2503-0008	2503-1008
3/4	1-15/32	1	2-9/32	25/32	5/8	4-7/16	2	CCMT21.51	2503-0020	2503-1020
1	1-27/32	1-1/4	2-9/32	1-1/32	53/64	4-13/16	4	CCMT21.51	2503-0022	2503-1022
1-1/4	2-7/32	1-1/4	2-9/32	1-9/32	1-3/32	5-3/8	4	CCMT32.51	2503-0024	2503-1024
1-1/2	2-21/32	1-1/4	2-9/32	1-17/32	1-11/32	5-29/32	4	CCMT32.51	2503-0026	2503-1026



CUTTING SHANK D	SHANK d	NECK d1	CUTTING C2	OAL C	# OF INSERTS	INSERTS USED	RIGHT ORDER #	LEFT ORDER #
25	16	12	11	82	4	CCMT0602	2503-0082	2503-1082
32	20	15	13	90	4	CCMT09T3	2503-0084	2503-1084
40	25	19	18	108	4	CCMT09T3	2503-0086	2503-1086
50	32	25	22	124	4	CCMT1204	2503-0088	2503-1088
60	32	30	28	136	4	CCMT1606	2503-0090	2503-1090
72	40	36	35	150	4	CCMT1906	2503-0092	2503-1092
25	16	12	11	82	4	TPG222	2503-2082	2503-3082
32	20	15	13	90	4	TPG222	2503-2084	2503-3084
40	25	19	18	108	4	TPG322	2503-2086	2503-3086
50	32	25	22	124	4	TPG322	2503-2088	2503-3088
60	32	30	28	136	4	TPG433	2503-2090	2503-3090
72	40	36	35	150	4	TPG433	2503-2092	2503-3092

TPG



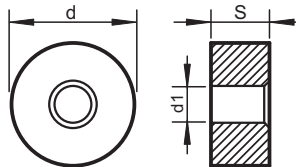
CCMT



CARBIDE INSERTS or SCREW

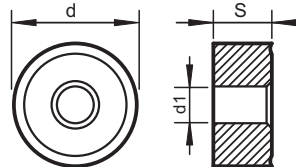
INSERT	ORDER #	TIN ORDER #	SCREW MODEL	ORDER #
TPG222	2127-0024	2127-1024	MS5	2995-0050
TPG322	2127-0028	2127-1028	MS6075	2995-0067
TPG433	2127-0036	2127-1036	MS810	2995-0081
CCMT060204	2100-0010	2100-1010	MLD-M25	2995-0162
CCMT09T308	2100-0016	2100-1016	MLD-M40	2995-0164
CCMT120408	2100-0020	2100-1020	MLD-M50	2995-0166
CCMT160612	2100-0024	2100-1024	MLD-M60	2995-0168
CCMT190612	2100-0026	2100-1026	MLD-M60	2995-0168

RNMA



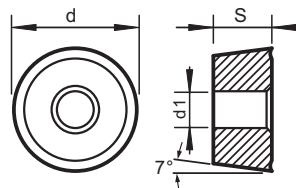
ISO No.	d	S	d1	ORDER #	TIN ORDER#
RNMA100300	10	3.18	3.18	2107-0020	2107-1020
RNMA120400	12	4.76	5.16	2107-0022	2107-1022
RNMA160500	16	5.56	6.35	2107-0024	2107-1024
RNMA200600	20	6.35	7.93	2107-0026	2107-1026

RNMM



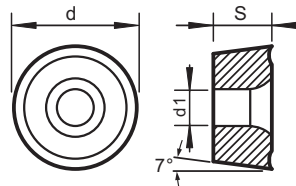
ISO No.	d	S	d1	ORDER #	TIN ORDER#
RNMM120400	12	4.76	5.16	2108-0020	2108-1020
RNMM160500	16	5.56	6.35	2108-0022	2108-1022
RNMM200600	20	6.35	7.93	2108-0024	2108-1024
RNMM250700	25	7.93	9.12	2108-0026	2108-1026

RCMM



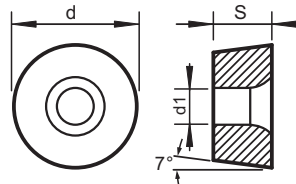
ISO No.	d	S	d1	ORDER #	TIN ORDER#
RCMM120400	12	4.76	5.16	2109-0020	2109-1020
RCMM160500	16	5.56	6.35	2109-0022	2109-1022
RCMM200600	20	6.35	7.93	2109-0024	2109-1024
RCMM250800	25	8.20	9.12	2109-0026	2109-1026

RCMT



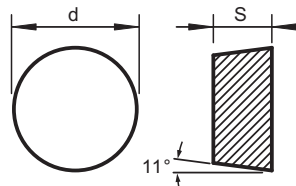
ISO No.	d	S	d1	ORDER #	TIN ORDER#
RCMT10T300	10	4.76	5.16	2110-0020	2110-1020
RCMT120400	12	5.56	6.35	2110-0022	2110-1022
RCMT160500	16	6.35	7.93	2110-0024	2110-1024
RCMT200600	20	7.93	9.12	2110-0026	2110-1026

RCMW



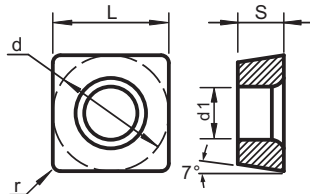
ISO No.	d	S	d1	ORDER #	TIN ORDER#
RCMW080300 RCMW32	08	3.18	3.4	2111-0020	2111-1020
RCMW120400 RCMW43	12	4.76	4.4	2111-0022	2111-1022
RCMW160600 RCMW54	16	5.56	5.5	2111-0024	2111-1024
RCMW200600 RCMW64	20	6.35	6.5	2111-0026	2111-1026
RCMW250700 RCMW85	25	7.94	8.6	2111-0028	2111-1028

RPGN



ISO No.	d	S	ORDER #	TIN ORDER#
RPGN090300	09	3.18	2112-0020	2112-1020
RPGN120300	12	3.18	2112-0022	2112-1022
RPGN160400	16	4.76	2112-0024	2112-1024
RPGN160500	16	5.56	2112-0026	2112-1026
RPGN190300	19	3.18	2112-0028	2112-1028

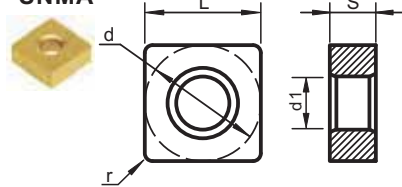
SCMT



ISO No.	d=L	S	d1	r	ORDER #	TIN ORDER#
SCMT060202 SCMT21.75	6.35	2.78	2.8	0.2	2113-0018	2113-1018
SCMT09T304 SCMT32.51	9.525	3.97	4.4	0.4	2113-0020	2113-1020
SCMT09T308 SCMT32.52	9.525	3.97	4.4	0.8	2113-0022	2113-1022
SCMT120404 SCMT431	12.7	4.76	5.5	0.4	2113-0024	2113-1024
SCMT120408 SCMT432	12.7	4.76	5.5	0.8	2113-0026	2113-1026
SCMT120412 SCMT433	12.7	4.76	5.5	1.2	2113-0028	2113-1028

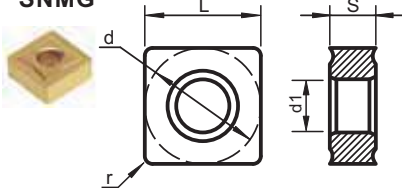
Carbide Inserts

SNMA



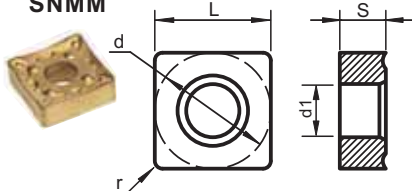
ISO No.	d=L	S	d1	r	ORDER #	TIN ORDER#
SNMA090304 SNMA321	9.525	3.18	3.81	0.4	2117-0020	2117-1020
SNMA090308 SNMA322	9.525	3.18	3.81	0.8	2117-0022	2117-1022
SNMA120404 SNMA431	12.7	4.76	5.16	0.4	2117-0024	2117-1024
SNMA120408 SNMA432	12.7	4.76	5.16	0.8	2117-0026	2117-1026
SNMA120412 SNMA433	12.7	4.76	5.16	1.2	2117-0028	2117-1028
SNMA150608 SNMA542	15.875	6.35	6.35	0.8	2117-0030	2117-1030
SNMA150612 SNMA543	15.875	6.35	6.35	1.2	2117-0032	2117-1032
SNMA190608 SNMA642	19.05	6.35	7.93	0.8	2117-0034	2117-1034
SNMA190612 SNMA643	19.05	6.35	7.93	1.2	2117-0036	2117-1036

SNMG



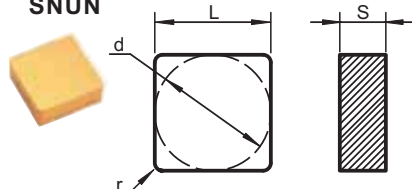
ISO No.	d=L	S	d1	r	ORDER #	TIN ORDER#
SNMG090304 SNMG321	9.525	3.18	3.81	0.4	2118-0020	2118-1020
SNMG090308 SNMG322	9.525	3.18	3.81	0.8	2118-0022	2118-1022
SNMG120404 SNMG431	12.7	4.76	5.16	0.4	2118-0024	2118-1024
SNMG120408 SNMG432	12.7	4.76	5.16	0.8	2118-0026	2118-1026
SNMG120412 SNMG433	12.7	4.76	5.16	1.2	2118-0028	2118-1028
SNMG150608 SNMG542	15.875	6.35	6.35	0.8	2118-0030	2118-1030
SNMG150612 SNMG543	15.875	6.35	6.35	1.2	2118-0032	2118-1032
SNMG190608 SNMG642	19.05	6.35	7.93	0.8	2118-0034	2118-1034
SNMG190612 SNMG643	19.05	6.35	7.93	1.2	2118-0036	2118-1036

SNMM



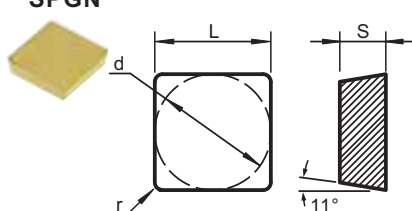
ISO No.	d=L	S	d1	r	ORDER #	TIN ORDER#
SNMM090304 SNMM321	9.525	3.18	3.81	0.4	2119-0020	2119-1020
SNMM090308 SNMM322	9.525	3.18	3.81	0.8	2119-0022	2119-1022
SNMM120404 SNMM431	12.7	4.76	5.16	0.4	2119-0024	2119-1024
SNMM120408 SNMM432	12.7	4.76	5.16	0.8	2119-0026	2119-1026
SNMM120412 SNMM433	12.7	4.76	5.16	1.2	2119-0028	2119-1028
SNMM150608 SNMM542	15.875	6.35	6.35	0.8	2119-0030	2119-1030
SNMM150612 SNMM543	15.875	6.35	6.35	1.2	2119-0032	2119-1032
SNMM190608 SNMM642	19.05	6.35	7.93	0.8	2119-0034	2119-1034
SNMM190612 SNMM643	19.05	6.35	7.93	1.2	2119-0036	2119-1036

SNUN



ISO No.	d=L	S	r	ORDER #	TIN ORDER#
SNUN090304 SNUN321	9.525	3.18	0.4	2120-0020	2120-1020
SNUN090308 SNUN322	9.525	3.18	0.8	2120-0022	2120-1022
SNUN120408 SNUN432	12.7	4.76	0.8	2120-0024	2120-1024
SNUN120412 SNUN433	12.7	4.76	1.2	2120-0026	2120-1026
SNUN150408 SNUN532	15.875	4.76	0.8	2120-0028	2120-1028
SNUN150412 SNUN533	15.875	4.76	1.2	2120-0030	2120-1030
SNUN150416 SNUN534	15.875	4.76	1.6	2120-0032	2120-1032
SNUN190412 SNUN633	19.05	4.76	1.2	2120-0034	2120-1034
SNUN190416 SNUN634	19.05	4.76	1.6	2120-0036	2120-1036

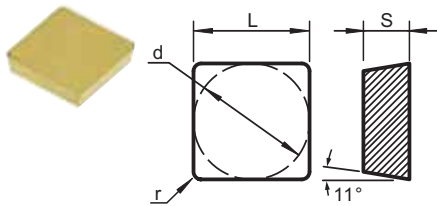
SPGN



ISO No.	d=L	S	r	ORDER #	TIN ORDER#
SPGN090304 SPGN321	9.525	3.18	0.4	2136-0020	2136-1020
SPGN090308 SPGN322	9.525	3.18	0.8	2136-0022	2136-1022
SPGN120304 SPGN421	12.7	3.18	0.4	2136-0024	2136-1024
SPGN120308 SPGN422	12.7	3.18	0.8	2136-0026	2136-1026
SPGN120312 SPGN423	12.7	3.18	1.2	2136-0028	2136-1028
SPGN150408 SPGN532	15.875	4.76	0.8	2136-0030	2136-1030
SPGN150412 SPGN533	15.875	4.76	1.2	2136-0032	2136-1032
SPGN190408 SPGN632	19.05	4.76	0.8	2136-0034	2136-1034
SPGN190412 SPGN633	19.05	4.76	1.2	2136-0036	2136-1036

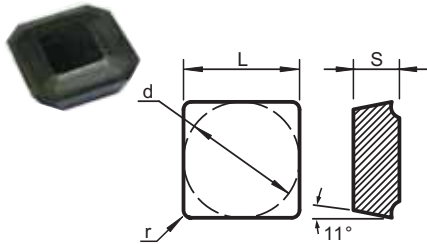
Carbide Inserts

SPUN



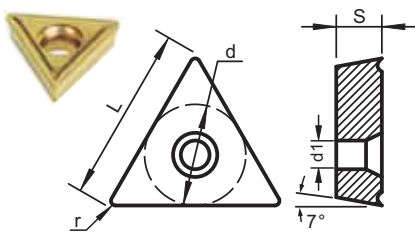
Metric Code	Inch	d=L	S	r	ORDER #	TIN ORDER#
SPUN090304	321	9.525	3.18	0.4	2137-0020	2137-1020
SPUN090308	322	9.525	3.18	0.8	2137-0022	2137-1022
SPUN120304	421	12.7	3.18	0.4	2137-0024	2137-1024
SPUN120308	422	12.7	3.18	0.8	2137-0026	2137-1026
SPUN120312	423	12.7	3.18	1.2	2137-0028	2137-1028
SPUN120404	423	12.7	4.76	0.4	2137-0027	2137-1027
SPUN120408	432	12.7	4.76	0.8	2137-0029	2137-1029
SPUN150408	432	15.875	4.76	0.8	2137-0030	2137-1030
SPUN150412	433	15.875	4.76	1.2	2137-0032	2137-1032

SPMR



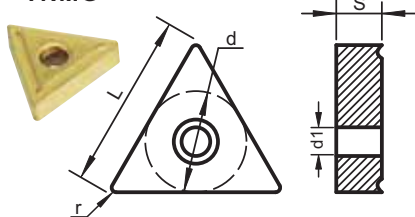
Metric Code	Inche	d=L	S	r	ORDER #	TIN ORDER#
SPMR090304	321	9.525	3.18	0.4	2137-0045	2137-1045
SPMR090308	322	9.525	3.18	0.8	2137-0046	2137-1046
SPMR09T304	32.51	12.7	3.97	0.4	2137-0047	2137-1047
SPMR09T308	32.52	12.7	3.97	0.8	2137-0048	2137-1048
SPMR120304	421	12.7	3.18	0.4	2137-0049	2137-1049
SPMR120308	422	12.7	3.18	0.8	2137-0050	2137-1050
SPMR120312	423	12.7	3.18	1.2	2137-0051	2137-1051

TCMT



Metric Code	Inch	d	L	S	d1	r	ORDER #	TIN ORDER#
TCMT090202	1.8(1.5)0	5.56	9.6	2.38	2.5	0.2	2124-0020	2124-1020
TCMT090204	1.8(1.5)1	5.56	9.6	2.38	2.5	0.4	2124-0022	2124-1022
TCMT090208	1.8(1.5)2	5.56	9.6	2.38	2.5	0.8	2124-0024	2124-1024
TCMT110202	21.50	6.35	11	2.38	2.8	0.2	2124-0026	2124-1026
TCMT110204	21.51	6.35	11	2.38	2.8	0.4	2124-0028	2124-1028
TCMT110208	21.52	6.35	11	2.38	2.8	0.8	2124-0030	2124-1030
TCMT16T302	32.50	9.525	16.5	3.97	4.4	0.2	2124-0032	2124-1032
TCMT16T304	32.51	9.525	16.5	3.97	4.4	0.4	2124-0034	2124-1034
TCMT16T308	32.52	9.525	16.5	3.97	4.4	0.8	2124-0036	2124-1036

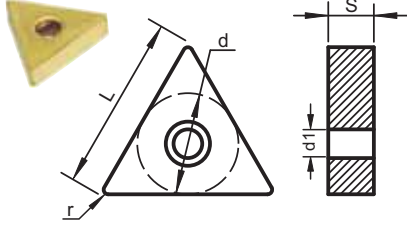
TNMG



Metric Code	Inch	d	L	S	d1	r	ORDER #	TIN ORDER#
TNMG110304	221	6.35	11	3.18	2.8	0.4	2122-0022	2122-1022
TNMG110308	222	6.35	11	3.18	2.8	0.8	2122-0024	2122-1024
TNMG160304	321	9.525	16.5	3.18	3.81	0.4	2122-0026	2122-1026
TNMG160308	322	9.525	16.5	3.18	3.81	0.8	2122-0028	2122-1028
TNMG160312	323	9.525	16.5	3.18	3.81	1.2	2122-0030	2122-1030
TNMG160404	331	9.525	16.5	4.76	3.81	0.4	2122-0032	2122-1032
TNMG160408	332	9.525	16.5	4.76	3.81	0.8	2122-0034	2122-1034
TNMG220408	432	12.7	22	4.76	5.16	0.8	2122-0036	2122-1036
TNMG220412	433	12.7	22	4.76	5.16	1.2	2122-0038	2122-1038

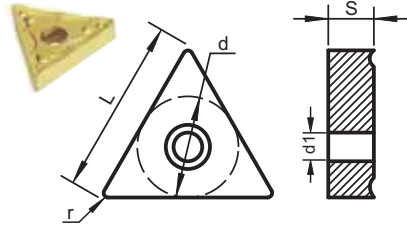
Carbide Inserts

TNMA



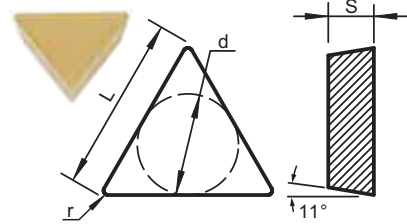
Metric Code	Inch	d	L	S	d1	r	ORDER #	TIN ORDER#
TNMA110304	221	6.35	11	3.18	2.8	0.4	2126-0024	2126-1024
TNMA110308	222	6.35	11	3.18	2.8	0.8	2126-0026	2126-1026
TNMA160304	321	9.525	16.5	3.18	3.81	0.4	2126-0028	2126-1028
TNMA160308	322	9.525	16.5	3.18	3.81	0.8	2126-0030	2126-1030
TNMA160312	323	9.525	16.5	3.18	3.81	1.2	2126-0032	2126-1032
TNMA160404	331	9.525	16.5	4.76	3.81	0.4	2126-0034	2126-1034
TNMA160408	332	9.525	16.5	4.76	3.81	0.8	2126-0036	2126-1036
TNMA160412	333	12.7	22	4.76	5.16	1.2	2126-0038	2126-1038
TNMA220408	432	12.7	22	4.76	5.16	0.8	2126-0040	2126-1040
TNMA220412	433	12.7	22	4.76	5.16	1.2	2126-0042	2126-1042

TNMM



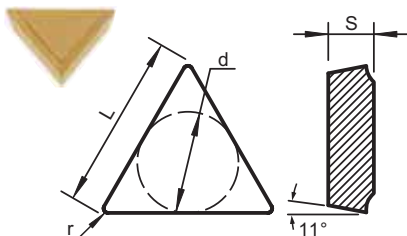
Metric Code	Inch	d	L	S	d1	r	ORDER #	TIN ORDER#
TNMM160404	331	9.525	16.5	4.76	3.81	0.4	2125-0030	2125-1030
TNMM160408	332	9.525	16.5	4.76	3.81	0.8	2125-0032	2125-1032
TNMM160412	333	9.525	16.5	4.76	3.81	1.2	2125-0034	2125-1034
TNMM220408	432	12.7	22	4.76	5.16	0.8	2125-0036	2125-1036
TNMM220412	433	12.7	22	4.76	5.16	1.2	2125-0038	2125-1038

TPGN



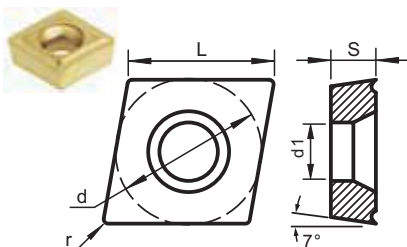
Metric Code	Inch	d	L	S	r	ORDER #	TIN ORDER#
TPGN090204	1.8(1.5)1	6.35	11	2.38	0.4	2127-0020	2127-1020
TPGN090308	1.8(2)2	6.35	11	3.18	0.8	2127-0022	2127-1022
TPGN110304	221	9.525	16.5	3.18	0.4	2127-0024	2127-1024
TPGN110308	222	9.525	16.5	3.18	0.8	2127-0026	2127-1026
TPGN160304	321	9.525	16.5	3.18	0.4	2127-0028	2127-1028
TPGN160308	322	9.525	16.5	3.18	0.8	2127-0030	2127-1030
TPGN160312	323	9.525	16.5	3.18	1.2	2127-0032	2127-1032
TPGN160408	332	9.525	16.5	4.76	0.8	2127-0034	2127-1034
TPGN220404	431	12.7	22	4.76	0.4	2127-0036	2127-1036
TPGN220408	432	12.7	22	4.76	0.8	2127-0038	2127-1038
TPGN220412	433	12.7	22	4.76	1.2	2127-0040	2127-1040

TPMR



Metric Code	Inch	d	L	S	r	ORDER #	TIN ORDER#
TPMR110304	221	6.35	11	3.18	0.4	2123-0022	2123-1022
TPMR110308	222	6.35	11	3.18	0.8	2123-0024	2123-1024
TPMR160304	321	9.525	16.5	3.18	0.4	2123-0026	2123-1026
TPMR160308	322	9.525	16.5	3.18	0.8	2123-0028	2123-1028
TPMR160312	323	9.525	16.5	3.18	1.2	2123-0030	2123-1030
TPMR220412	433	12.7	22	4.76	1.2	2123-0038	2123-1038

CCMT



Metric Code	Inch	d	L	S	d1	r	ORDER #	TIN ORDER#
CCMT060202	21.50	6.35	6.4	2.38	2.8	0.2	2100-0006	2100-1006
CCMT060204	21.51	6.35	6.4	2.38	2.8	0.4	2100-0008	2100-1008
CCMT060208	21.52	6.35	6.4	2.38	2.8	0.8	2100-0010	2100-1010
CCMT09T302	32.50	9.525	9.7	3.97	4.4	0.2	2100-0012	2100-1012
CCMT09T304	32.51	9.525	9.7	3.97	4.4	0.4	2100-0014	2100-1014
CCMT09T308	32.52	9.525	9.7	3.97	4.4	0.8	2100-0016	2100-1016
CCMT120404	431	12.7	12.9	4.76	5.5	0.4	2100-0018	2100-1018
CCMT120408	432	12.7	12.9	4.76	5.5	0.8	2100-0020	2100-1020
CCMT120412	433	12.7	12.9	4.76	5.5	1.2	2100-0022	2100-1022