



Cutting Tools

CONVEX ARBOR TYPE MILLING CUTTER



Dia.of Circle	Dia.of Cutter	Hole Size	Model No.
1/16	2-1/4	1	317-0040
3/32	2-1/4	1	317-0065
1/8	2	7/8	317-0081
1/8	2-1/4	1	317-0099
5/32	2-1/4	1	317-0107
3/16	2	7/8	317-0123
3/16	2-1/4	1	317-0131
7/32	2-1/4	1	317-0149
1/4	2	7/8	317-0164
1/4	2-1/2	1	317-0172
1/4	4	1-1/4	317-0178
9/32	2-1/2	1	317-0180
5/16	2-1/4	7/8	317-0206
5/16	2-3/4	1	317-0214
11/32	2-3/4	1	317-0222
3/8	2-1/4	7/8	317-0248
3/8	2-3/4	1	317-0255
3/8	5	1-1/4	317-0260
13/32	2-3/4	1	317-0263
7/16	2-1/4	7/8	317-0278
7/16	3	1	317-0297
1/2	2-1/4	7/8	317-0321
1/2	3	1	317-0339
1/2	5	1-1/4	317-0350
9/16	2-3/4	1	317-0362
9/16	3	1	317-0389
5/8	2-3/4	1	317-0404
5/8	3-1/2	1-1/4	317-0412
11/16	3	1	317-0446
3/4	3	1	317-0487
3/4	3-3/4	1-1/4	317-0495
3/4	6	1-1/4	317-0510
13/16	3-1/4	1	317-0529
13/16	3-1/4	1-1/4	317-0536
7/8	3-1/4	1	317-0569
7/8	4	1-1/4	317-0578
15/16	3-1/2	1	317-0602
1	3-1/4	1	317-0644
1	4-1/4	1-1/4	317-0651
1	6	1-1/4	317-0700
1-1/8	4	1-1/4	317-1089
1-1/4	4	1-1/4	317-1162
1-3/8	4-1/4	1-1/4	317-1246
1-1/2	4-1/4	1-1/4	317-1329
1-5/8	5-1/2	1-1/4	317-1402
1-3/4	5-1/2	1-1/4	317-1485
1-7/8	6	1-1/2	317-1568
2	6	1-1/2	317-2004

CONCAVE ARBOR TYPE MILLING CUTTER



Dia.of Circle	Dia.of Cutter	Hole Size	Model No.
1/16	2-1/4	1	316-0041
3/32	2-1/4	1	316-0066
1/8	2	7/8	316-0090
1/8	2-1/4	1	316-0098
5/32	2-1/4	1	316-0108
3/16	2	7/8	316-0116
3/16	2-1/4	1	316-0132
7/32	2-1/4	1	316-0140
1/4	2	7/8	316-0165
1/4	2-1/2	1	316-0173
9/32	2-1/2	1	316-0181
5/16	2-3/4	1	316-0215
3/8	2-3/4	1	316-0256
7/16	3	1	316-0298
1/2	2-1/4	7/8	316-0322
1/2	3	1	316-0330
9/16	3	1	316-0363
5/8	3	1	316-0378
5/8	3-1/2	1-1/4	316-0413
11/16	3	1	316-0447
3/4	3	1	316-0488
3/4	3-3/4	1-1/4	316-0496
13/16	3-1/4	1	316-0520
7/8	3-1/4	1	316-0561
7/8	4	1-1/4	316-0579
15/16	3-1/2	1	316-0603
1	3-1/4	1	316-0645
1	4-1/4	1-1/4	316-0652
1-1/8	4	1-1/4	316-1080
1-1/4	4	1-1/4	316-1163
1-3/8	4-1/4	1-1/4	316-1247
1-1/2	4-1/4	1-1/4	316-1320
1-5/8	5-1/2	1-1/4	316-1403
1-3/4	5-1/2	1-1/4	316-1486
1-7/8	6	1-1/2	316-1569
2	6	1-1/2	316-2005

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CONVEX SHANK TYPE MILLING CUTTER



Radius	Cutter Dia.	Shank Dia.	No. of Flute	Overall Length	Model No.
1/32	3/4	1/2	6	3	317-4026
1/16	3/4	1/2	6	3	317-4042
3/32	7/8	1/2	6	3	317-4067
1/8	1-1/4	3/4	6	3-1/2	317-4083
5/32	1-5/16	3/4	6	3-1/2	317-4109
3/16	1-3/8	3/4	6	3-1/2	317-4125
1/4	1-1/2	3/4	4.6	4	317-4166
5/16	1-5/8	3/4	4.6	4	317-4208
3/8	1-3/4	3/4	4.6	4	317-4240

CONCAVE SHANK TYPE MILLING CUTTER



Radius	Cutter Dia.	Shank Dia.	No. of Flute	Overall Length	Model No.
1/32	3/4	1/2	6	3	316-3028
1/16	3/4	1/2	6	3	316-3044
3/32	3/4	1/2	6	3	316-3069
1/8	1	3/4	6	3-1/2	316-3085
5/32	1	3/4	6	3-1/2	316-3101
3/16	1	3/4	6	3-1/2	316-3127
1/4	1-1/4	3/4	4.6	4	316-3168
5/16	1-1/4	3/4	4.6	4	316-3200
3/8	1-1/2	3/4	4.6	4-3/16	316-3242

ARBOR TYPE SINGLE ANGLE CUTTER

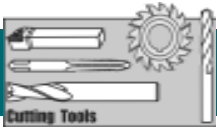


Cutter Dia.	Width of Face	Hole Size	45°		60°	
			Right Hand Model No.	Left Hand Model No.	Right Hand Model No.	Left Hand Model No.
2-1/2	1/2	7/8	328-0110	328-1110	328-2110	328-3110
2-3/4	1/2	1	328-0219	328-1219	328-2219	328-3219
3	1/2	1	328-0316	328-1316	328-2316	328-3316
3	1/2	1-1/4	328-0318	328-1318	328-2318	328-3318
3	5/8	1	328-0326	328-1326	328-2326	328-3326
3	5/8	1-1/4	328-0330	328-1330	328-2330	328-3330
3	3/4	1	328-0334	328-1334	328-2334	328-3334
3	3/4	1-1/4	328-0400	328-1400	328-2400	328-3400
4	1/2	1	328-0417	328-1417	328-2417	328-3417
4	1/2	1-1/4	328-0420	328-1420	328-2420	328-3420
4	3/4	1	328-0433	328-1433	328-2433	328-3433
4	3/4	1-1/4	328-0436	328-1436	328-2436	328-3436
4	1	1-1/4	328-0441	328-1441	328-2441	328-3441
5	3/4	1-1/4	328-0532	328-1532	328-2532	328-3532
5	1	1-1/4	328-0540	328-1540	328-2540	328-3540
6	3/4	1-1/4	328-0631	328-1631	328-2631	328-3631
6	1	1-1/4	328-0649	328-1649	328-2649	328-3649

DOUBLE ANGLE CUTTER ARBOR TYPE



Dia.	Width of Face	Hole Size	45°	60°	90°
			Model No.	Model No.	Model No.
2-3/4	1/2	1	328-4211	328-5211	328-6211
3	5/8	1	328-4328	328-5328	328-6328
3	3/4	1	328-4366	328-5366	328-6366
4	1/2	1-1/4	328-4427	328-5427	328-6427
4	3/4	1	328-4435	328-5435	328-6435
4	3/4	1-1/4	328-4446	328-5446	328-6446
4	1	1-1/4	328-4468	328-5468	328-6468
5	3/4	1-1/4	328-4534	328-5534	328-6534
5	1	1-1/4	328-4542	328-5542	328-6542
6	3/4	1-1/4	328-4633	328-5633	328-6633
6	1	1-1/4	328-4641	328-5641	328-6641
6	1-1/4	1-1/4	328-4649	328-5649	328-6649
6	1-1/2	1-1/4	328-4658	328-5658	328-6658



Cutting Tools

WOODRUFF KEYSEAT CUTTER 1/2" SHANK

Staggered Teeth



Straight Teeth



Dia.	Width of Face	Overall Length	Straight Teeth Model No.	Staggered Teeth Model No.
1/2	1/16	2-1/16	296-0010	297-0010
1/2	3/32	2-3/32	296-0028	297-0028
1/2	1/8	2-1/8	296-0036	297-0036
5/8	3/32	2-3/32	296-0044	297-0044
5/8	1/8	2-1/8	296-0051	297-0051
5/8	5/32	2-5/32	296-0069	297-0069
3/4	1/8	2-1/8	296-0077	297-0077
3/4	5/32	2-5/32	296-0085	297-0085
3/4	3/16	2-3/16	296-0093	297-0093
7/8	5/32	2-5/32	296-0101	297-0101
7/8	3/16	2-3/16	296-0119	297-0119
7/8	7/32	2-7/32	296-0127	297-0127
1	3/16	2-3/16	296-0135	297-0135
1	7/32	2-7/32	296-0143	297-0143
1	1/4	2-1/4	296-0150	297-0150
1-1/8	3/16	2-3/16	296-0168	297-0168
1-1/8	7/32	2-7/32	296-0176	297-0176
1-1/8	1/4	2-1/4	296-0184	297-0184
1-1/4	3/16	2-3/16	296-0192	297-0192
1-1/4	7/32	2-7/32	296-0200	297-0200
1-1/4	1/4	2-1/4	296-0218	297-0218
1-3/8	1/4	2-1/4	296-0226	297-0226
1-3/8	5/16	2-5/16	296-0234	297-0234
1-1/2	1/4	2-1/4	296-0242	297-0242
1-1/2	5/16	2-5/16	296-0259	297-0259
5/8	3/16	2-3/16	296-0614	297-0614
3/4	1/4	2-1/4	296-0911	297-0911
1	3/8	2-3/8	296-1521	297-1521
1/4	1/16	2-1/16	296-2016	297-2016
5/16	1/16	2-1/16	296-2065	297-2065
5/16	3/32	2-3/32	296-2073	297-2073
3/8	1/16	2-1/16	296-2115	297-2115
3/8	3/32	2-3/32	296-2123	297-2123
3/8	1/8	2-1/8	296-2131	297-2131
7/8	1/4	2-1/4	296-9011	297-9011
1	5/16	2-5/16	296-9029	297-9029
1-1/8	5/16	2-5/16	296-9037	297-9037
1-1/4	5/16	2-5/16	296-9045	297-9045
1-1/4	3/8	2-3/8	296-9052	297-9052
1-3/8	3/8	2-3/8	296-9060	297-9060
1-1/2	3/8	2-3/8	296-9078	297-9078

PLAIN MILLING CUTTER LIGHT DUTY



Dia.	Width of Face	Hold Dia.	Model No.
2-1/4	1/2	7/8	304-1323
2-1/4	1	7/8	304-1646
2-1/2	3/16	1	304-2123
2-1/2	1/4	1	304-2164
2-1/2	5/16	1	304-2206
2-1/2	3/8	1	304-2248
2-1/2	7/16	1	304-2289
2-1/2	1/2	1	304-2321
2-1/2	5/8	1	304-2404
2-1/2	3/4	1	304-2487
2-1/2	1	1	304-2644
2-1/2	1-1/2	1	304-2826
2-1/2	2	1	304-2909
2-1/2	2-1/2	1	304-2958
2-1/2	3	1	304-2974
3	3/16	1	304-3121
3	1/4	1	304-3162
3	5/16	1	304-3204
3	3/8	1	304-3246
3	3/8	1-1/4	304-3253
3	7/16	1-1/4	304-3287
3	1/2	1-1/4	304-3329
3	5/8	1-1/4	304-3402

Dia.	Width of Face	Hold Dia.	Model No.
3	3/4	1-1/4	304-3485
3	7/8	1-1/4	304-3568
3	1	1-1/4	304-3642
3	1-1/4	1-1/4	304-3741
3	1-1/2	1-1/4	304-3824
3	2	1-1/4	304-3964
3	3	1-1/4	304-3972
4	1/4	1	304-4160
4	1/4	1-1/4	304-4178
4	5/16	1	304-4202
4	3/8	1	304-4244
4	3/8	1-1/4	304-4251
4	1/2	1-1/4	304-4327
4	5/8	1-1/4	304-4400
4	3/4	1-1/4	304-4483
4	1	1-1/4	304-4640
4	1-1/2	1-1/4	304-4822
4	2	1-1/4	304-4962
4	3	1-1/4	304-4970
4	4	1-1/4	304-4988

PLAIN MILLING CUTTER HEAVY DUTY



Dia.	Width of Face	Hold Dia.	Model No.
2-1/2	2	1	304-2967
2-1/2	4	1	304-2983
3	2	1-1/4	304-3940
3	2	1-1/4	304-3957
3	3	1-1/4	304-3973
3	4	1-1/4	304-3981
3	6	1-1/4	304-3999
4	2	1-1/2	304-4963
4	3	1-1/2	304-4971
4	4	1-1/2	304-4989
4	6	1-1/2	304-4997
4-1/2	6	2	304-5994

Dia.	Width of Face	Hold Helical	Model No.
3	4	1-1/4	304-7347
3	6	1-1/4	304-7362
4	8	1-1/2	304-7487
4-1/2	6	2	304-7560

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SINGLE END MILL SETS



No. Of PCs	Description	with Wooden Case		with Plastic Case		End Mills Only	
		M2 Model No.	TiN-Coated Model No.	M2 Model No.	TiN-Coated Model No.	M2 Model No.	TiN-Coated Model No.
20	2&4 Flute each of 3/16" to 3/4" by 16ths	320-1000	320-0000	329-1000	329-0000	320-1100	320-0100
10	2Flute 3/16" to 3/4" by 16ths	320-1001	320-0001	329-1001	329-0001	320-1101	320-0101
10	4 Flute 3/16" to 3/4" by 16ths	320-1002	320-0002	329-1002	329-0002	320-1102	320-0102
10	2&4 Flute each of 1/4", 3/8", 1/2", 5/8", 3/4"	320-1003	320-0003	329-1003	329-0003	320-1103	320-0103
20	2&4 Flute each of 3,4,5,6,8,10,12,14,18,20mm	320-1004	320-0004	329-1004	329-0004	320-1104	320-0104
20	2&4 Flute each of 3,4,5,6,8,10,12,14,16,20mm	320-1005	320-0005	329-1005	329-0005	320-1105	320-0105
10	2Flute 3,4,5,6,8,10,12,14,18,20mm	320-1006	320-0006	329-1006	329-0006	320-1106	320-0106
10	4 Flute 3,4,5,6,8,10,12,14,18,20mm	320-1007	320-0007	329-1007	329-0007	320-1107	320-0107
3	2Flute 1/8, 1/4, 3/8"	320-1008	320-0008			320-1108	320-0108
3	4 Flute 1/8, 1/4, 3/8"	320-1009	320-0009			320-1109	320-0109
20	4Flute 2 each of 3/16" to 3/4" by 16ths	320-4001	320-3001	329-4001	329-3001	320-4101	320-3101
15	4Flute 3.4.5.6.8.10.12.14.15.16.18.20.22.24.25	320-0015	320-1015				

END MILL CASES ONLY

Description	Plastic Case Model No.	Wooden Case Model No.
for 3pcs single end mill set		320-WC03
for 10pcs single end mill set	320-CP10	320-WC10
for 20pcs single end mill set	320-CP20	320-WC20
for 10-PCs double end mill set	320-CP01	320-WC01
for 20-PCs double end mill set	320-CP02	320-WC02

SINGLE END SETS WITH STAND

6 Piece 2 or 4 Flute Single End Sets



No. Of Shank			
Flute	Dia.	Descriptions	Model No.
2	3/8"	1/8, 3/16, 1/4, 5/16, 3/8, 1/2"	320-2006
4	3/8"	1/8, 3/16, 1/4, 5/16, 3/8, 1/2"	320-2016
2	3/4"	1", 3/4, 7/8, 1-1/8, 1-1/4, 1-1/2"	320-2066
4	3/4"	1", 3/4, 7/8, 1-1/8, 1-1/4, 1-1/2"	320-2076

4, 9 Piece 2 Flute Ball Nose Single End Sets

No. Of Piece	Descriptions	Model No.
4	7/8, 1, 1-1/4, 1-1/2"	320-2004
9	1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4"	320-2009



12 Piece 2 and 4 Flute Single End Sets

No. Of Shank			
Flute	Dia.	Descriptions	Model No.
2&4	3/8"	1/8, 3/16, 1/4, 5/16, 3/8, 1/2"	320-2026

DOUBLE END MILL SETS



No. Of Piece	Description	with Wooden Case		with Plastic Case		End Mills Only	
		M2 Model No.	TiN-Coated Model No.	M2 Model No.	TiN-Coated Model No.	M2 Model No.	TiN-Coated Model No.
20pcs	2&4 Flute each of 3/16" to 3/4" by 16ths	320-9001	320-8001	329-9001	329-8001	320-9101	320-8101
10pcs	4 Flute 3/16" to 3/4" by 16ths	320-9002	320-8002	329-9002	329-8002	320-9102	320-8102
10pcs	2Flute 3/16" to 3/4" by 16ths	320-9003	320-8003	329-9003	329-8003	320-9103	320-8103
10pcs	2&4 Flute each of 1/4", 3/8", 1/2", 5/8", 3/4"	320-9004	320-8004	329-9004	329-8004	320-9104	320-8104