

Cutting Tools

5, 6 Piece 2 or 4 Flute Double End Sets

No. Of Piece	No. Of Flute	No. Of Shank Dia.	Descriptions	Model No.
5	2	3/16"	1/16,3/32,1/8,5/32,3/16"	320-2305
5	4	3/16"	1/16,3/32,1/8,5/32,3/16"	320-2405
6	2	3/8"	1/8,5/32,3/16,1/4,5/16,3/8"	320-2106
6	4	3/8"	1/8,5/32,3/16,1/4,5/16,3/8"	320-2116



DOUBLE END MILL SETS WITH STAND

14 Piece 2 or 4 Flute Double End Sets

No. Of Flute	No. Of Shank Dia.	Descriptions	Model No.
2	3/8"	1/8,5/32,3/16,1/4,5/16,3/8"	320-2114
	1/2"	1/2,9/16"	
	5/8"	5/8,11/16,3/4"	
	3/4"	13/16,7/8,1"	
4	3/8"	1/8,5/32,3/16,1/4,5/16,3/8"	320-2214
	1/2"	1/2,9/16"	
	5/8"	5/8,11/16,3/4"	
	3/4"	13/16,7/8,1"	

10, 12 Piece 2 and 4 Flute Double End Sets

No. Of Piece	No. Of Flute	No. Of Shank Dia.	Descriptions	Model No.
10	2&4	3/16"	1/16,3/32,1/8,5/32,3/16"	320-2610
12	2&4	3/8"	1/8,5/32,3/16,1/4,5/16,3/8"	320-2036

METRIC SIDE MILLING CUTTERS

Straight Tooth / Staggered Tooth

High Speed Steel



Dia. (mm)	Width of Face (mm)	Hole Size (mm)	Straight Tooth Model No.	Staggered Tooth Model No.
50	4	16	322-0501	322-5501
50	5	16	322-0502	322-5502
50	6	16	322-0503	322-5503
50	8	16	322-0504	322-5504
50	10	16	322-0505	322-5505
63	4	22	322-0631	322-5631
63	5	22	322-0632	322-5632
63	6	22	322-0633	322-5633
63	7	22	322-0634	322-5634
63	8	22	322-0635	322-5635
63	10	22	322-0636	322-5636
63	12	22	322-0637	322-5637
63	14	22	322-0638	322-5638
63	16	22	322-0639	322-5639
80	5	27	322-0801	322-5801
80	6	27	322-0802	322-5802
80	7	27	322-0803	322-5803
80	8	27	322-0804	322-5804
80	10	27	322-0805	322-5805
80	12	27	322-0806	322-5806
80	14	27	322-0807	322-5807
80	16	27	322-0808	322-5808
80	18	27	322-0809	322-5809
80	20	27	322-0810	322-5810
100	5	32	322-1001	322-6001
100	6	32	322-1002	322-6002
100	8	32	322-1003	322-6003
100	10	32	322-1004	322-6004
100	12	32	322-1005	322-6005
100	14	32	322-1006	322-6006
100	16	32	322-1007	322-6007
100	18	32	322-1008	322-6008
100	20	32	322-1009	322-6009
100	22	32	322-1010	322-6010
100	25	32	322-1011	322-6011
125	8	32	322-1251	322-6251
125	10	32	322-1252	322-6252
125	12	32	322-1253	322-6253
125	14	32	322-1254	322-6254
125	16	32	322-1255	322-6255
125	18	32	322-1256	322-6256
125	20	32	322-1257	322-6257

Dia. (mm)	Width of Face (mm)	Hole Size (mm)	Straight Tooth Model No.	Staggered Tooth Model No.
125	22	32	322-1258	322-6258
125	25	32	322-1259	322-6259
125	28	32	322-1260	322-6260
160	8	40	322-1601	322-6601
160	10	40	322-1602	322-6602
160	12	40	322-1603	322-6603
160	14	40	322-1604	322-6604
160	16	40	322-1605	322-6605
160	18	40	322-1606	322-6606
160	20	40	322-1607	322-6607
160	22	40	322-1608	322-6608
160	25	40	322-1609	322-6609
160	28	40	322-1610	322-6610
160	32	40	322-1611	322-6611
200	8	40	322-2001	322-7001
200	10	40	322-2002	322-7002
200	12	40	322-2003	322-7003
200	14	40	322-2004	322-7004
200	16	40	322-2005	322-7005
200	18	40	322-2006	322-7006
200	20	40	322-2007	322-7007
200	22	40	322-2008	322-7008
200	25	40	322-2009	322-7009
200	28	40	322-2010	322-7010
200	32	40	322-2011	322-7011
250	10	40	322-2501	322-7501
250	12	40	322-2502	322-7502
250	14	40	322-2503	322-7503
250	16	40	322-2504	322-7504
250	18	40	322-2505	322-7505
250	20	40	322-2506	322-7506
250	22	40	322-2507	322-7507
250	25	40	322-2508	322-7508
250	28	40	322-2509	322-7509
250	32	40	322-2510	322-7510



STRAIGHT TOOTH SIDE MILLING CUTTERS

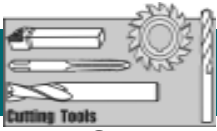
High Speed Steel

Used in slotting, light-duty side milling and straddle milling.



Dia	Width of Face	Hole Size	Model No.
2"	3/16	1/2	301-2127
2"	3/16	5/8	301-2135
2"	1/4	1/2	301-2168
2"	1/4	5/8	301-2176
2"	5/16	1/2	301-2200
2"	5/16	5/8	301-2218
2"	3/8	1/2	301-2242
2"	3/8	5/8	301-2259
2-1/2	1/4	7/8	301-2515
2-1/2	5/16	7/8	301-2523
2-1/2	3/8	7/8	301-2531
2-1/2	1/2	7/8	301-2556
2-1/2	3/16	1"	301-2614
2-1/2	1/4	1"	301-2622
2-1/2	5/16	1"	301-2630
2-1/2	3/8	1"	301-2648
2-1/2	7/16	1"	301-2655
2-1/2	1/2	1"	301-2663
2-1/2	5/8	1"	301-2671
3"	3/16	1"	301-3125
3"	7/32	1"	301-3141
3"	1/4	1"	301-3166
3"	1/4	1-1/4	301-3174
3"	9/32	1"	301-3182
3"	5/16	1"	301-3208
3"	5/16	1-1/4	301-3216
3"	11/32	1"	301-3224
3"	3/8	1"	301-3240
3"	3/8	1-1/4	301-3257
3"	13/32	1"	301-3265
3"	7/16	1"	301-3281
3"	1/2	1"	301-3323
3"	1/2	1-1/4	301-3331
3"	5/8	1"	301-3406
3"	3/4	1"	301-3489
3"	13/16	1"	301-3497
3-1/2	1/4	1"	301-3513
3-1/2	5/16	1"	301-3521
3-1/2	3/8	1"	301-3539
3-1/2	7/16	1"	301-3547
3-1/2	1/2	1"	301-3554
3"	7/8	1"	301-3562
3-1/2	5/8	1"	301-3570
3"	15/16	1"	301-3604
3"	1	1"	301-3646
4"	3/16	1"	301-4123
4"	3/16	1-1/4	301-4131
4"	7/32	1"	301-4149
4"	1/4	1"	301-4164
4"	1/4	1-1/4	301-4172
4"	9/32	1"	301-4180
4"	9/32	1-1/4	301-4198
4"	5/16	1"	301-4206
4"	5/16	1-1/4	301-4214
4"	11/32	1"	301-4222
4"	3/8	1"	301-4248
4"	3/8	1-1/4	301-4255
4"	13/32	1"	301-4263
4"	7/16	1"	301-4289
4"	1/2	1"	301-4321
4"	1/2	1-1/4	301-4339
4"	9/16	1"	301-4362
4"	5/8	1"	301-4404
4"	5/8	1-1/4	301-4412
4"	11/16	1"	301-4446
4"	3/4	1"	301-4487
4"	3/4	1-1/4	301-4495
4"	13/16	1"	301-4529
4"	7/8	1"	301-4560
4"	7/8	1-1/4	301-4578
4"	15/16	1"	301-4602
4"	1	1"	301-4644
4"	1-1/8	1-1/4	301-4701
4"	1-1/4	1-1/4	301-4743
4-1/2	3/8	1-1/4	301-4842
4-1/2	1/2	1-1/4	301-4867

Dia	Width of Face	Hole Size	Model No.
5"	1/4	1"	301-5161
5"	1/4	1-1/4	301-5179
5"	9/32	1"	301-5187
5"	9/32	1-1/4	301-5195
5"	5/16	1"	301-5203
5"	5/16	1-1/4	301-5211
5"	11/32	1"	301-5229
5"	3/8	1"	301-5245
5"	3/8	1-1/4	301-5252
5"	13/32	1"	301-5260
5"	7/16	1"	301-5286
5"	1/2	1"	301-5328
5"	1/2	1-1/4	301-5336
5"	9/16	1"	301-5369
5"	5/8	1"	301-5401
5"	5/8	1-1/4	301-5419
5"	11/16	1"	301-5443
5"	3/4	1"	301-5484
5"	3/4	1-1/4	301-5492
5"	13/16	1"	301-5526
5"	7/8	1"	301-5567
5"	15/16	1"	301-5609
5"	1"	1-1/4	301-5641
6"	1/4	1"	301-6169
6"	1/4	1-1/4	301-6177
6"	9/32	1-1/4	301-6193
6"	5/16	1"	301-6201
6"	5/16	1-1/4	301-6219
6"	3/8	1"	301-6243
6"	3/8	1-1/4	301-6250
6"	7/16	1-1/4	301-6284
6"	1/2	1"	301-6326
6"	1/2	1-1/4	301-6334
6"	9/16	1-1/4	301-6367
6"	5/8	1-1/4	301-6409
6"	11/16	1-1/4	301-6441
6"	3/4	1"	301-6482
6"	3/4	1-1/4	301-6490
6"	13/16	1-1/4	301-6524
6"	7/8	1-1/4	301-6565
6"	15/16	1-1/4	301-6607
6"	1"	1-1/4	301-6649
7"	1/4	1-1/4	301-7167
7"	5/16	1-1/4	301-7209
7"	3/8	1-1/4	301-7241
7"	7/16	1-1/4	301-7282
7"	1/2	1-1/4	301-7324
7"	5/8	1-1/4	301-7407
7"	3/4	1-1/4	301-7480
7"	1"	1-1/4	301-7647
8"	1/4	1"	301-8165
8"	1/4	1-1/4	301-8173
8"	5/16	1"	301-8207
8"	5/16	1-1/4	301-8215
8"	3/8	1"	301-8249
8"	3/8	1-1/4	301-8256
8"	7/16	1"	301-8280
8"	1/2	1"	301-8322
8"	1/2	1-1/4	301-8330
8"	9/16	1-1/4	301-8363
8"	5/8	1-1/4	301-8405
8"	11/16	1-1/4	301-8447
8"	3/4	1-1/4	301-8488
8"	13/16	1-1/4	301-8520
8"	7/8	1-1/4	301-8561
8"	15/16	1-1/4	301-8603
8"	1"	1-1/4	301-8645
10"	1/4	1-1/2	301-9163
10"	5/16	1-1/2	301-9205
10"	3/8	1-1/2	301-9247
10"	1/2	1-1/2	301-9320
10"	5/8	1-1/2	301-9403
10"	3/4	1-1/2	301-9486
10"	7/8	1-1/2	301-9569
10"	1"	1-1/2	301-9643



Cutting Tools

STAGGERED TOOTH SIDE MILLING CUTTERS

High Speed Steel

Used in slotting, light-duty side milling and straddle milling.



Dia.	Width of Face	Hole Size	Model No.
2-1/8	1/4	3/4	306-1168
2-1/8	5/16	3/4	306-1200
2-1/8	3/8	3/4	306-1242
2-1/2	3/16	7/8	306-2505
2-1/2	1/4	7/8	306-2513
2-1/2	5/16	7/8	306-2521
2-1/2	3/8	7/8	306-2539
2-1/2	1/2	7/8	306-2554
2-3/4	1/4	1"	306-2711
2-3/4	5/16	1"	306-2729
2-3/4	3/8	1"	306-2737
2-3/4	7/16	1"	306-2745
2-3/4	1/2	1"	306-2752
3"	1/8	1"	306-2900
3"	5/32	1"	306-3107
3"	3/16	1"	306-3123
3"	3/16	1-1/4	306-3131
3"	7/32	1"	306-3149
3"	1/4	1"	306-3164
3"	1/4	1-1/4	306-3172
3"	9/32	1"	306-3180
3"	5/16	1"	306-3206
3"	5/16	1-1/4	306-3214
3"	11/32	1"	306-3222
3"	3/8	1"	306-3248
3"	3/8	1-1/4	306-3255
3"	13/32	1"	306-3263
3"	7/16	1"	306-3289
3"	1/2	1"	306-3313
3"	1/2	1-1/4	306-3321
3"	9/16	1"	306-3336
3"	9/16	1-1/4	306-3362
3"	5/8	1"	306-3378
3"	5/8	1-1/4	306-3404
3"	3/4	1-1/4	306-3487
3"	7/8	1-1/4	306-3560
3"	1"	1-1/4	306-3644
3-1/2	7/32	1"	306-3670
3-1/2	1/4	1"	306-3685
3-1/2	9/32	1"	306-3701
3-1/2	5/16	1"	306-3727
3-1/2	3/8	1"	306-3735
3-1/2	7/16	1"	306-3743
3-1/2	1/2	1"	306-3750
3-1/2	9/16	1"	306-3768
3-1/2	5/8	1"	306-3776
3-1/2	11/16	1"	306-3784
3-1/2	3/4	1"	306-3792
4"	1/8	1"	306-3856
4"	3/16	1"	306-4121
4"	3/16	1-1/4	306-4139
4"	7/32	1-1/4	306-4147
4"	1/4	1"	306-4154

Dia.	Width of Face	Hole Size	Model No.
4"	1/4	1-1/4	306-4162
4"	9/32	1-1/4	306-4188
4"	5/16	1"	306-4196
4"	5/16	1-1/4	306-4204
4"	11/32	1-1/4	306-4220
4"	3/8	1"	306-4238
4"	3/8	1-1/4	306-4246
4"	13/32	1-1/4	306-4261
4"	7/16	1-1/4	306-4287
4"	7/16	1"	306-4295
4"	1/2	1"	306-4311
4"	1/2	1-1/4	306-4329
4"	9/16	1-1/4	306-4360
4"	5/8	1"	306-4378
4"	5/8	1-1/4	306-4402
4"	3/4	1"	306-4477
4"	3/4	1-1/4	306-4485
4"	7/8	1-1/4	306-4568
4"	1/8	1"	306-4579
4"	5/32	1"	306-4586
4"	1"	1-1/4	306-4642
4"	1-1/8	1-1/4	306-4709
4"	1-1/4	1-1/4	306-4741
4"	1-1/2	1-1/4	306-4824
5"	1/8	1-1/4	306-5036
5"	5/32	1-1/4	306-5089
5"	3/16	1-1/4	306-5118
5"	7/32	1-1/4	306-5134
5"	1/4	1"	306-5151
5"	1/4	1-1/4	306-5169
5"	9/32	1-1/4	306-5176
5"	5/16	1"	306-5193
5"	5/16	1-1/4	306-5201
5"	3/8	1-1/4	306-5243
5"	3/8	1"	306-5250
5"	7/16	1-1/4	306-5284
5"	1/2	1"	306-5318
5"	1/2	1-1/4	306-5326
5"	5/8	1-1/4	306-5409
5"	3/4	1-1/4	306-5482
5"	1"	1-1/4	306-5649
6"	1/8	1-1/4	306-6016
6"	5/32	1-1/4	306-6087
6"	3/16	1-1/4	306-6136
6"	7/32	1-1/4	306-6151
6"	1/4	1"	306-6159
6"	1/4	1-1/4	306-6167
6"	9/32	1-1/4	306-6183
6"	5/16	1"	306-6191
6"	5/16	1-1/4	306-6209
6"	3/8	1"	306-6233
6"	3/8	1-1/4	306-6241
6"	7/16	1-1/4	306-6282

Dia.	Width of Face	Hole Size	Model No.
6"	1/2	1"	306-6316
6"	1/2	1-1/4	306-6324
6"	9/16	1-1/4	306-6365
6"	5/8	1-1/4	306-6407
6"	11/16	1-1/4	306-6449
6"	3/4	1-1/4	306-6480
6"	13/16	1-1/4	306-6522
6"	7/8	1-1/4	306-6563
6"	15/16	1-1/4	306-6605
6"	1"	1-1/4	306-6647
6"	1-1/8	1-1/4	306-6704
6"	1-1/4	1-1/4	306-6746
6"	1-1/2	1-1/4	306-6829
7"	1/4	1-1/4	306-7165
7"	5/16	1-1/4	306-7207
7"	3/8	1-1/4	306-7249
7"	7/16	1-1/4	306-7280
7"	1/2	1-1/4	306-7322
7"	9/16	1-1/4	306-7363
7"	5/8	1-1/4	306-7405
7"	11/16	1-1/4	306-7447
7"	3/4	1-1/4	306-7488
7"	7/8	1-1/4	306-7561
7"	1"	1-1/4	306-7645
8"	1/4	1-1/4	306-8163
8"	5/16	1-1/4	306-8205
8"	3/8	1-1/2	306-8247
8"	7/16	1-1/2	306-8288
8"	1/2	1-1/2	306-8320
8"	9/16	1-1/2	306-8361
8"	5/8	1-1/2	306-8403
8"	11/16	1-1/2	306-8445
8"	3/4	1-1/2	306-8486
8"	13/16	1-1/2	306-8528
8"	7/8	1-1/2	306-8569
8"	1"	1-1/2	306-8643
8"	1-1/8	1-1/2	306-8700
8"	1-1/4	1-1/2	306-8742
8"	1-1/2	1-1/2	306-8825
10"	1/4	1-1/2	306-9161
10"	5/16	1-1/2	306-9203
10"	3/8	1-1/2	306-9245
10"	7/16	1-1/2	306-9286
10"	1/2	1-1/2	306-9328
10"	9/16	1-1/2	306-9369
10"	5/8	1-1/2	306-9401
10"	3/4	1-1/2	306-9484
10"	7/8	1-1/2	306-9567
10"	1"	1-1/2	306-9641
10"	1-1/8	1-1/2	306-9708
10"	1-1/4	1-1/2	306-9740
10"	1-1/2	1-1/2	306-9823

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CARBIDE TIPPED SIDE MILLING CUTTERS



For Steel



For Non-Ferrous



For Cast Iron

Cutter Face Dia.	Arbor Width	Arbor Hole	For Steel		For Non-Ferrous		For Cast Iron		For Stainless Steel	
			No. Of Teeth	Model No.	No. Of Teeth	Model No.	No. Of Teeth	Model No.	No. Of Teeth	Model No.
3"	1/4"	1"	6	245-7001	4	245-6801	6	245-6901	8	245-6601
3"	5/16"	1"	6	245-7002	4	245-6802	6	245-6902	8	245-6602
3"	3/8"	1"	6	245-7003	4	245-6803	6	245-6903	8	245-6603
3"	7/16"	1"	6	245-7004	4	245-6804	6	245-6904		
3"	1/2"	1"	6	245-7005	4	245-6805	6	245-6905	8	245-6604
4"	1/4"	1"	8	245-7006	4	245-6806	8	245-6906	10	245-6605
4"	5/16"	1"	8	245-7007	4	245-6807	8	245-6907	10	245-6606
4"	3/8"	1"	8	245-7008	4	245-6808	8	245-6908	10	245-6607
4"	3/8"	1-1/4"	8	245-7009	4	245-6809	8	245-6909	10	245-6608
4"	1/2"	1"	8	245-7011	4	245-6811	8	245-6911	10	245-6609
4"	1/2"	1-1/4"	8	245-7012	4	245-6812	8	245-6912	10	245-6610
4"	5/8"	1"	8	245-7014	4	245-6814	8	245-6914	10	245-6611
4"	5/8"	1-1/4"			4	245-6815	8	245-6915	10	245-6612
4"	3/4"	1"			4	245-6816	8	245-6916	10	245-6613
4"	3/4"	1-1/4"			4	245-6817	8	245-6917	10	245-6614
5"	1/2"	1"	10	245-7017	6	245-6819	10	245-6919	12	245-6615
5"	1/2"	1-1/4"	10	245-7018	6	245-6820	10	245-6920	12	245-6616
5"	5/8"	1-1/4"	10	245-7020	6	245-6822	10	245-6922	12	245-6617
5"	3/4"	1"			6	245-6823	10	245-6923	12	245-6618
5"	3/4"	1-1/4"			6	245-6824	10	245-6924	12	245-6619
6"	1/2"	1"			6	245-6825	12	245-6925	14	245-6620
6"	1/2"	1-1/4"			6	245-6826	12	245-6926	14	245-6621
6"	5/8"	1-1/4"			6	245-6827	12	245-6927	14	245-6622
6"	3/4"	1"			6	245-6828	12	245-6928	14	245-6623
6"	3/4"	1-1/4"			6	245-6829	12	245-6929	14	245-6624
7"	3/4"	1-1/4"			8	245-6830	12	245-6930		
8"	3/4"	1-1/4"			8	245-6831	12	245-6931		
8"	3/4"	1-1/2"			8	245-6832	12	245-6932		

Staggered Tooth for Steel

Cutter Dia.	Face Width	Arbor Hole	No. Of Teeth	Model No.
4"	3/4"	1"	8	245-7044
4"	3/4"	1-1/4"	8	245-7045
5"	3/4"	1"	10	245-7046
6"	3/4"	1"	12	245-7049
6"	1"	1-1/4"	12	245-7051

Staggered Tooth for Non-Ferrous and Cast Iron

Cutter Dia.	Face Width	Arbor Hole	For Non-Ferrous		For Cast Iron	
			No. Of Teeth	Model No.	No. Of Teeth	Model No.
5"	1"	1-1/4"	8	245-6855	10	245-6955
6"	1"	1-1/4"	8	245-6856	12	245-6956

CARBIDE TIPPED DOVETAIL CUTTERS

Straight Shank. C2 Grade

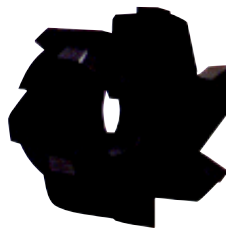


Features:

- Used for all dovetail work.
- Convenient for production and tool room work.

Cutter Dia.	Shank Dia.	Overall Length	No. Of Teeth	45°		60°	
				Cutter Width	Model No.	Cutter Width	Model No.
3/4"	3/8"	2-1/4"	3	1/4"	243-5048	1/4"	243-5248
1"	1/2"	2-1/2"	4	5/16"	243-5064	3/8"	243-5264
1-1/4"	5/8"	2-3/4"	4	3/8"	243-5080	1/2"	243-5280
1-1/2"	3/4"	3-1/4"	4	1/2"	243-5096	5/8"	243-5296
2"	1"	4-1/4"	6	5/8"	243-5128	3/4"	243-5328
2-1/2"	1-1/4"	4-3/8"	6	3/4"	243-5160	7/8"	243-5360
3"	1-1/4"	4-1/2"	6	1"	243-5192	1-1/8"	243-5392

CARBIDE TIPPED SHELL END MILLS



Mill Dia.	Hole Dia.	Overall Length	No. Of Teeth	Right hand Helix	Straight Flute	Left Hand Helix
				For Non-Ferrous	For Cast Iron	For Steel
1-1/4"	1"	1/2"	4	244-8601	244-8701	244-8801
1-1/2"	1-1/8"	1/2"	4	244-8602	244-8702	244-8802
1-3/4"	1-1/4"	3/4"	4	244-8603	244-8703	244-8803
2"	1-3/8"	3/4"	4	244-8604	244-8704	244-8804
2-1/4"	1-1/2"	1"	6	244-8605	244-8705	244-8805
2-1/2"	1-5/8"	1"	6	244-8606	244-8706	244-8806
2-3/4"	1-5/8"	1"	6	244-8607	244-8707	244-8807
3"	1-3/4"	1-1/4"	6	244-8608	244-8708	244-8808
3-1/2"	1-7/8"	1-1/4"	6	244-8609	244-8709	244-8809
4"	2-1/4"	1-1/2"	6	244-8610	244-8710	244-8810