



Cutting Tools

STRAIGHT SHANK CHUCKING REAMER

Straight Flute

Wire Gage Sizes



Size	Model No.	Size	Model No.	Size	Model No.	Size	Model No.
No.1 1-1/2x6"	331-0201	No.16 1-1/8x4-1/2"	331-0216	No.31 7/8x3-1/2"	331-0231	No.46 3/4x3"	331-0246
No.2 1-1/2x6"	331-0202	No.17 1-1/8x4-1/2"	331-0217	No.32 7/8x3-1/2"	331-0232	No.47 3/4x3"	331-0247
No.3 1-1/4x5"	331-0203	No.18 1-1/8x4-1/2"	331-0218	No.33 7/8x3-1/2"	331-0233	No.48 3/4x3"	331-0248
No.4 1-1/4x5"	331-0204	No.19 1-1/8x4-1/2"	331-0219	No.34 7/8x3-1/2"	331-0234	No.49 3/4x3"	331-0249
No.5 1-1/4x5"	331-0205	No.20 1-1/8x4-1/2"	331-0220	No.35 7/8x3-1/2"	331-0235	No.50 3/4x3"	331-0250
No.6 1-1/4x5"	331-0206	No.21 1-1/8x4-1/2"	331-0221	No.36 7/8x3-1/2"	331-0236	No.51 3/4x3"	331-0251
No.7 1-1/4x5"	331-0207	No.22 1x4"	331-0222	No.37 7/8x3-1/2"	331-0237	No.52 1/2x2-1/2"	331-0252
No.8 1-1/4x5"	331-0208	No.23 1x4"	331-0223	No.38 7/8x3-1/2"	331-0238	No.53 1/2x2-1/2"	331-0253
No.9 1-1/4x5"	331-0209	No.24 1x4"	331-0224	No.39 7/8x3-1/2"	331-0239	No.54 1/2x2-1/2"	331-0254
No.10 1-1/4x5"	331-0210	No.25 1x4"	331-0225	No.40 7/8x3-1/2"	331-0240	No.55 1/2x2-1/2"	331-0255
No.11 1-1/4x5"	331-0211	No.26 1x4"	331-0226	No.41 7/8x3-1/2"	331-0241	No.56 1/2x2-1/2"	331-0256
No.12 1-1/8x4-1/2"	331-0212	No.27 1x4"	331-0227	No.42 3/4x3"	331-0242	No.57 1/2x2-1/2"	331-0257
No.13 1-1/8x4-1/2"	331-0213	No.28 1x4"	331-0228	No.43 3/4x3"	331-0243	No.58 1/2x2-1/2"	331-0258
No.14 1-1/8x4-1/2"	331-0214	No.29 1x4"	331-0229	No.44 3/4x3"	331-0244	No.59 1/2x2-1/2"	331-0259
No.15 1-1/8x4-1/2"	331-0215	No.30 7/8x3-1/2"	331-0230	No.45 3/4x3"	331-0245	No.60 1/2x2-1/2"	331-0260

STRAIGHT SHANK CHUCKING REAMER

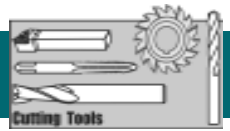
Straight Flute

Fractional Sizes



Size	Flute Length	Overall Length	Model No.	Size	Flute Length	Overall Length	Model No.	Size	Flute Length	Overall Length	Model No.
3/64"	1/2	2-1/2"	331-1003	29/64"	1-3/4	7"	331-1029	55/64"	2-5/8	9-1/2"	331-1055
1/16"	1/2	2-1/2"	331-1004	15/32"	1-3/4	7"	331-1030	7/8"	2-5/8	10"	331-1056
5/64"	3/4	3"	331-1005	31/64"	2	8"	331-1031	57/64"	2-5/8	10"	331-1057
3/32"	3/4	3"	331-1006	1/2"	2	8"	331-1032	29/32"	2-5/8	10"	331-1058
7/64"	7/8	3-1/2"	331-1007	33/64"	2	8"	331-1033	59/64"	2-5/8	10"	331-1059
1/8"	7/8	3-1/2"	331-1008	17/32"	2	8"	331-1034	15/16"	2-5/8	10"	331-1060
9/64"	1	4"	331-1009	35/64"	2	8"	331-1035	61/64"	2-5/8	10"	331-1061
5/32"	1	4"	331-1010	9/16"	2	8"	331-1036	31/32"	2-5/8	10"	331-1062
11/64"	1-1/8	4-1/2"	331-1011	37/64"	2	8"	331-1037	63/64"	2-3/4	10"	331-1063
3/16"	1-1/8	4-1/2"	331-1012	19/32"	2	8"	331-1038	1"	2-3/4	10-1/2"	331-1100
13/64"	1-1/4	5"	331-1013	39/64"	2-1/4	9"	331-1039	1-1/32"	2-3/4	10-1/2"	331-1102
7/32"	1-1/4	5"	331-1014	5/8"	2-1/4	9"	331-1040	1-1/16"	2-3/4	10-1/2"	331-1104
15/64"	1-1/2	6"	331-1015	41/64"	2-1/4	9"	331-1041	1-3/32"	2-7/8	10-1/2"	331-1106
1/4"	1-1/2	6"	331-1016	21/32"	2-1/4	9"	331-1042	1-1/8"	2-7/8	11"	331-1108
17/64"	1-1/2	6"	331-1017	43/64"	2-1/4	9"	331-1043	1-5/32"	2-7/8	11"	331-1110
9/32"	1-1/2	6"	331-1018	11/16"	2-1/4	9"	331-1044	1-3/16"	2-7/8	11"	331-1112
19/64"	1-1/2	6"	331-1019	45/64"	2-1/4	9"	331-1045	1-7/32"	2-7/8	11"	331-1114
5/16"	1-1/2	6"	331-1020	23/32"	2-1/4	9"	331-1046	1-1/4"	3	11-1/2"	331-1116
21/64"	1-1/2	6"	331-1021	47/64"	2-1/2	9-1/2"	331-1047	1-5/16"	3	11-1/2"	331-1120
11/32"	1-1/2	6"	331-1022	3/4"	2-1/2	9-1/2"	331-1048	1-3/8"	3-1/4	12"	331-1124
23/64"	1-3/4	7"	331-1023	49/64"	2-1/2	9-1/2"	331-1049	1-7/16"	3-1/2	12-1/2"	331-1128
3/8"	1-3/4	7"	331-1024	25/32"	2-1/2	9-1/2"	331-1050	1-1/2"	3-1/2	12-1/2"	331-1132
25/64"	1-3/4	7"	331-1025	51/64"	2-1/2	9-1/2"	331-1051	1-9/16"	3-1/2	12-1/2"	331-1136
13/32"	1-3/4	7"	331-1026	13/16"	2-1/2	9-1/2"	331-1052	1-5/8"	3-1/2	13"	331-1140
27/64"	1-3/4	7"	331-1027	53/64"	2-1/2	9-1/2"	331-1053	1-11/16"	3-1/2	13"	331-1144
7/16"	1-3/4	7"	331-1028	27/32"	2-1/2	9-1/2"	331-1054	1-3/4"	4	13-1/2"	331-1148
								1-7/8"	4	14"	331-1156
								2"	4	14"	331-1200

WWW.PRECOTOOLS.CN



TAPER SHANK CHUCKING REAMER

Straight Flute/Spiral Fluted

High Speed Steel



Size	M.T. Taper Shank	Flute Length	Overall Length	Model No.	
				Straight Shank	Taper Shank
1/4	1	1-1/2	6	331-2400	331-2401
9/32	1	1-1/2	6	331-2402	331-2403
5/16	1	1-1/2	6	331-2404	331-2405
11/32	1	1-1/2	6	331-2406	331-2407
3/8	1	1-3/4	7	331-2408	331-2409
13/32	1	1-3/4	7	331-2410	331-2411
7/16	1	1-3/4	7	331-2412	331-2413
15/32	1	1-3/4	7	331-2414	331-2415
1/2	1	2	8	331-2416	331-2417
17/32	1	2	8	331-2418	331-2419
9/16	1	2	8	331-2420	331-2421
19/32	1	2	8	331-2422	331-2423
5/8	2	2-1/4	9	331-2424	331-2425
21/32	2	2-1/4	9	331-2426	331-2427
11/16	2	2-1/4	9	331-2428	331-2429

Size	M.T. Taper Shank	Flute Length	Overall Length	Model No.	
				Straight Shank	Taper Shank
23/32	2	2-1/4	9	331-2430	331-2431
3/4	2	2-1/2	9-1/2	331-2432	331-2433
25/32	2	2-1/2	9-1/2	331-2434	331-2435
13/16	2	2-1/2	9-1/2	331-2436	331-2437
27/32	2	2-1/2	9-1/2	331-2438	331-2439
7/8	2	2-5/8	10	331-2440	331-2441
29/32	2	2-5/8	10	331-2442	331-2443
15/16	3	2-5/8	10	331-2444	331-2445
31/32	3	2-5/8	10	331-2446	331-2447
1	3	2-3/4	10-1/2	331-2448	331-2449
1-1/32	3	2-3/4	10-1/2	331-2450	331-2451
1-1/16	3	2-3/4	10-1/2	331-2452	331-2453
1-1/8	3	2-7/8	11	331-2454	331-2455
1-3/16	3	2-7/8	11	331-2456	331-2457
1-1/4	4	3	11-1/2	331-2458	331-2459
1-5/16	4	3	11-1/2	331-2460	331-2461
1-3/8	4	3-1/4	12	331-2462	331-2463
1-7/16	4	3-1/4	12	331-2464	331-2465
1-1/2	4	3-1/2	12-1/2	331-2466	331-2467
1-9/16	4	3-1/2	12-1/2	331-2468	331-2469
1-5/8	4	3-1/2	13	331-2470	331-2471
1-11/16	4	4	13-1/2	331-2472	331-2473
1-3/4	4	4	13-1/2	331-2474	331-2475
2	4	4	14-1/2	331-2476	331-2477

TAPER SHANK JIBBERS LENGTH REAMER

Straight Flute

High Speed Steel



Size	M.T. Shank	Flute Length	Overall Length	Model No.
1/4	1	2	5-3/16	331-2600
9/32	1	2	5-3/16	331-2602
5/16	1	2-1/4	5-1/2	331-2604
11/32	1	2-1/4	5-1/2	331-2606
3/8	1	2-1/2	5-13/16	331-2608
13/32	1	2-1/2	5-13/16	331-2610
7/16	1	2-3/4	6-1/8	331-2612
15/32	1	2-3/4	6-1/8	331-2614
1/2	1	3	6-7/16	331-2616
17/32	1	3	6-7/16	331-2618
9/16	1	3-1/4	6-3/4	331-2620
19/32	1	3-1/4	6-3/4	331-2622
5/8	2	3-1/2	7-9/16	331-2624
21/32	2	3-1/2	7-9/16	331-2626
11/16	2	3-7/8	8	331-2628

Size	M.T. Shank	Flute Length	Overall Length	Model No.
23/32	2	3-7/8	8	331-2630
3/4	2	4-3/16	8-3/8	331-2632
13/16	2	4-9/16	8-13/16	331-2634
7/8	2	4-7/8	9-3/16	331-2636
15/16	3	5-1/8	10	331-2638
1	3	5-7/16	10-3/8	331-2640
1-1/16	3	5-5/8	10-5/8	331-2642
1-1/8	3	5-13/16	10-7/8	331-2644
1-3/16	3	6	11-1/8	331-2646
1-1/4	4	6-1/8	12-9/16	331-2648
1-5/16	4	6-1/4	12-11/16	331-2650
1-3/8	4	6-5/16	12-13/16	331-2652
1-7/16	4	6-7/16	13	331-2654
1-1/2	4	6-1/2	13-1/8	331-2656

MORSE TAPER HAND REAMER

Straight Shank, High Speed Steel



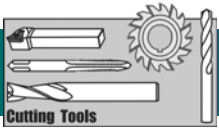
Size	Diameter		Shank	Flute Length	Overall Length	ModelNo.	
	Small End	Large End				Roughing	Finishing
0	0.2503	0.3673	5/16	2-1/4	3-3/4	331-2800	331-2801
1	0.3674	0.5170	7/16	3	5	331-2802	331-2803
2	0.5696	0.7444	5/8	3-1/2	6	331-2804	331-2805
3	0.7748	0.9881	7/8	4-1/4	7-1/4	331-2806	331-2807
4	1.0167	1.2893	1-1/4	5-1/4	8-1/4	331-2808	331-2809
5	1.4717	1.8005	1-1/2	6-1/4	9-3/4	331-2810	331-2811
6	2.1120	2.5550	2	8-1/2	12-1/4	331-2812	331-2813

MORSE TAPER MACHINE REAMER

Taper Shank, High Speed Steel



Size	Diameter		Flute Length	Overall Length	ModelNo.	
	Small End	Large End			Roughing	Finishing
0	0.2503	0.3673	2-1/4	5-11/32	331-2900	331-2901
1	0.3674	0.5170	3	6-5/16	331-2902	331-2903
2	0.5696	0.7444	3-1/2	7-3/8	331-2904	331-2905
3	0.7748	0.9881	4-1/4	8-7/8	331-2906	331-2907
4	1.0167	1.2893	5-1/4	10-7/8	331-2928	331-2909
5	1.4717	1.8005	6-1/4	13-1/4	331-2910	331-2911
6	2.1120	2.5550	8-1/2	17-13/16	331-2912	331-2913



Cutting Tools

SOLID COUNTERBORE

2 Flute Straight Shank \ High Speed Steel
For Fillister Head Screws-Fractional Size



Pilot And Cutting Size	Shank	Thread Length	Model No.
1/4x13/32	5/16	3-5/8	331-1600
5/16x15/32	3/8	4	331-1602
3/8x19/32	7/16	4-3/8	331-1604
7/16x21/32	1/2	4-3/4	331-1606
1/2x25/32	9/16	5-1/8	331-1608

SOLID COUNTERBORE

3 Flute Straight Shank \ High Speed Steel
For Cup Screws-Machine Screw And Fractional Size



Size	Pilot Dia.	Cutting Dia.	Shank Dia.	Overall Length	Model No.
No.5	0.141	0.221	3/16	3	331-1700
No.6	0.150	0.242	7/32	3	331-1702
No.8	11/64	19/64	1/4	3	331-1704
No.10	13/64	21/64	5/16	3-1/2	331-1706
1/4	9/32	13/32	3/8	3	331-1708
5/16	11/32	1/2	7/16	5	331-1710
3/8	13/32	19/32	1/2	6	331-1712
7/16	15/32	11/16	1/2	7	331-1714
1/2	17/32	25/32	1/2	7-1/2	331-1716
5/8	21/32	31/32	3/4	7-1/2	331-1718
3/4	13/16	1-3/16	1	8	331-1720
7/8	15/16	1-3/8	1	8	331-1722
1	1-1/16	1-9/16	1	10	331-1724

REPAIREMAN'S TAPER REAMER

Crabon Steel

- Removes burrs from small holes.
- Enlarges and countersinks holes in soft metals.
- Range: 1/8-1/2"

Range	Model No.
1/8-1/2	331-0100
1/8-5/8	331-0110



TAPER PIPE REAMER

High Speed Steel

Straight Flute

Spiral Flute



Straight Flute



Taper Flute



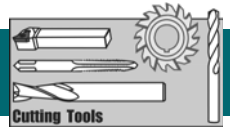
Size	Diameter		Flute Length	Overall Length	Model No.	
	Small End	Large End			Roughing	Finishing
1/8	0.316	0.362	3/4	2-1/8	331-1400	331-1401
1/4	0.406	0.472	1-1/16	2-7/16	331-1402	331-1403
3/8	0.540	0.606	1-1/16	2-9/16	331-1404	331-1405
1/2	0.665	0.751	1-3/8	3-1/8	331-1406	331-1407
3/4	0.876	0.962	1-3/8	3-1/4	331-1408	331-1409
1	1.103	1.212	1-3/4	3-3/4	331-1410	331-1411
1-1/4	1.444	1.553	1-3/4	4	331-1412	331-1413
1-1/2	1.684	1.793	1-3/4	4-1/4	331-1414	331-1415
2	2.519	2.268	1-3/4	4-1/2	331-1416	331-1417

Size	M.T. Taper Shank	Flute Length	Overall Length	Model No.	
				Straight Shank	Taper Shank
21/32	2	1-1/4	9	331-1518	331-1519
11/16	2	1-1/4	9	331-1520	331-1521
23/32	2	1-1/4	9	331-1522	331-1523
3/4	2	1-3/8	9-1/2	331-1524	331-1525
25/32	2	1-3/8	9-1/2	331-1526	331-1527
13/16	2	1-3/8	9-1/2	331-1528	331-1529
27/32	2	1-3/8	9-1/2	331-1530	331-1531
7/8	2	1-1/2	10	331-1532	331-1533
29/32	2	1-1/2	10	331-1534	331-1535
15/16	3	1-1/2	10	331-1536	331-1537
31/32	3	1-1/2	10	331-1538	331-1539
1	3	1-5/8	10-1/2	331-1540	331-1541
1-1/32	3	1-5/8	10-1/2	331-1542	331-1543
1-1/16	3	1-5/8	10-1/2	331-1544	331-1545
1-3/32	3	1-5/8	10-1/2	331-1546	331-1547
1-1/8	3	1-3/4	11	331-1548	331-1549
1-5/32	3	1-3/4	11	331-1550	331-1551
1-3/16	3	1-3/4	11	331-1552	331-1553
1-7/32	4	1-3/4	11	331-1554	331-1555
1-1/4	4	1-7/8	11-1/2	331-1556	331-1557
1-5/16	4	1-7/8	11-1/2	331-1558	331-1559
1-3/8	4	2	12	331-1560	331-1561
1-7/16	4	2	12	331-1562	331-1563
1-1/2	4	2-1/8	12-1/2	331-1564	331-1565
1-9/16	4	2-1/8	12-1/2	331-1566	331-1567
1-5/8	4	2-1/4	13	331-1568	331-1569
1-11/16	4	2-1/4	13	331-1570	331-1571
1-3/4	5	2-3/8	13-1/2	331-1572	331-1573
1-13/16	5	2-3/8	13-1/2	331-1574	331-1575
1-7/8	5	2-1/2	14	331-1576	331-1577
1-15/16	5	2-1/2	14	331-1578	331-1579
2	5	2-1/2	14	331-1580	331-1581

EXPANSION CHUCKING REAMER

High Speed Steel / Straight Flute

Size	M.T. Taper Shank	Flute Length	Overall Length	Model No.	
				Straight Shank	Taper Shank
3/8	1	3/4	7	331-1500	331-1501
13/32	1	3/4	7	331-1502	331-1503
7/16	1	7/8	7	331-1504	331-1505
15/32	1	7/8	7	331-1506	331-1507
1/2	1	1	8	331-1508	331-1509
17/32	1	1	8	331-1510	331-1511
9/16	1	1-1/8	8	331-1512	331-1513
19/32	1	1-1/8	8	331-1514	331-1515
5/8	2	1-1/4	9	331-1516	331-1517



STRAIGHT SHANK CHUCKING REAMER

Straight Flute

Size	Decimal Equiv.	Flute Length	Overall Length	No. of Flute	Model No.	Size	Decimal Equiv.	Flute Length	Overall Length	No. of Flute	Model No.
0.1230DP	0.1230	7/8	3-1/2"	4	331-7005	0.3740	0.3740	1-3/4	7"	6	331-7090
0.1240	0.1240	7/8	3-1/2"	4	331-7010	0.3745DP	0.3745	1-3/4	7"	6	331-7095
0.1247DP	0.1247	7/8	3-1/2"	4	331-7015	0.3760	0.3760	1-3/4	7"	6	331-7100
0.1260	0.1260	7/8	3-1/2"	4	331-7020	0.4355DP	0.4355	1-3/4	7"	6	331-7105
0.1855DP	0.1855	1-1/8	4-1/2"	6	331-7025	0.4365	0.4365	1-3/4	7"	6	331-7110
0.1865	0.1865	1-1/8	4-1/2"	6	331-7030	0.4370DP	0.4370	1-3/4	7"	6	331-7115
0.1870DP	0.1870	1-1/8	4-1/2"	6	331-7035	0.4385	0.4385	1-3/4	7"	6	331-7120
0.1885	0.1885	1-1/8	4-1/2"	6	331-7040	0.4980DP	0.4980	2	8"	6	331-7125
0.2480DP	0.2480	1-1/2	6"	6	331-7045	0.4990	0.4990	2	8"	6	331-7130
0.2490	0.2490	1-1/2	6"	6	331-7050	0.4995DP	0.4995	2	8"	6	331-7135
0.2495DP	0.2495	1-1/2	6"	6	331-7055	0.5010	0.5010	2	8"	6	331-7140
0.2510	0.2510	1-1/2	6"	6	331-7060	0.6240	0.6240	2-1/4	9"	6	331-7150
0.3105DP	0.3105	1-1/2	6"	6	331-7065	0.6260	0.6260	2-1/4	9"	8	331-7160
0.3115	0.3115	1-1/2	6"	6	331-7070	0.7490	0.7490	2-1/4	9"	8	331-7170
0.3120DP	0.3120	1-1/2	6"	6	331-7075	0.7510	0.7510	2-1/2	9-1/2"	8	331-7180
0.3135	0.3135	1-1/2	6"	6	331-7080	0.8740	0.8740	2-1/2	9-1/2"	8	331-7190
0.3730DP	0.3730	1-3/4	7"	6	331-7085	0.8760	0.8760	2-5/8	10"	8	331-7200

STRAIGHT SHANK CHUCKING REAMER

Straight Flute

Size	Model No.	Size	Model No.	Size	Model No.
A 1-1/2x6"	331-0001	I 1-1/2x6"	331-0009	R 1-1/2x6"	331-0018
B 1-1/2x6"	331-0002	J 1-1/2x6"	331-0010	S 1-3/4x7"	331-0019
C 1-1/2x6"	331-0003	K 1-1/2x6"	331-0011	T 1-3/4x7"	331-0020
D 1-1/2x6"	331-0004	L 1-1/2x6"	331-0012	U 1-3/4x7"	331-0021
E 1-1/2x6"	331-0005	M 1-1/2x6"	331-0013	V 1-3/4x7"	331-0022
F 1-1/2x6"	331-0006	N 1-1/2x6"	331-0014	W 1-3/4x7"	331-0023
G 1-1/2x6"	331-0007	O 1-1/2x6"	331-0015	X 1-3/4x7"	331-0024
H 1-1/2x6"	331-0008	P 1-1/2x6"	331-0016	Y 1-3/4x7"	331-0025
		Q 1-1/2x6"	331-0017	Z 1-3/4x7"	331-0026

STRAIGHT SHANK CHUCKING

REAMER SETS



3/64" to 1/2" 29 piece **Model No. 331-1000**
 A to Z 26 piece **Model No. 331-0000**
 No.1-60 60piece **Model No. 331-0200**

CARBIDE TIPED CHUCKING REAMER

C2 Grade, Straight Shank

Size	Flute Length	Overall Length	Model No.	Size	Flute Length	Overall Length	Model No.
3/16	1-1/18	4-1/2	241-1012	23/32	2-1/4	9	241-1046
7/32	1-1/4	5	241-1014	3/4	2-1/2	9-1/2	241-1048
1/4	1-1/2	6	241-1016	25/32	2-1/2	9-1/2	241-1050
9/32	1-1/2	6	241-1018	13/16	2-1/2	9-1/2	241-1052
5/16	1-1/2	6	241-1020	27/32	2-1/2	9-1/2	241-1054
11/32	1-1/2	6	241-1022	7/8	2-5/8	10	241-1056
3/8	1-3/4	7	241-1024	29/32	2-5/8	10	241-1058
13/32	1-3/4	7	241-1026	15/16	2-5/8	10	241-1060
7/16	1-3/4	7	241-1028	31/32	2-5/8	10	241-1062
15/32	1-3/4	7	241-1030	1	2-3/4	10-1/2	241-1064
1/2	2	8	241-1032	1-1/16	2-3/4	10-1/2	241-1068
17/32	2	8	241-1034	1-1/8	2-7/8	11	241-1072
9/16	2	8	241-1036	1-3/16	2-7/8	11	241-1076
19/32	2	8	241-1038	1-1/4	3	11-1/2	241-1080
5/8	2-1/4	9	241-1040	1-5/16	3	11-1/2	241-1084
21/32	2-1/4	9	241-1042	1-3/8	3-1/4	12	241-1088
11/16	2-1/4	9	241-1044	1-7/16	3-1/4	12	241-1092
				1-1/2	3-1/2	12-1/2	241-1096



Straight Shank

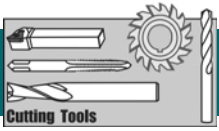


Taper Shank

CARBIDE TIPED CHUCKING REAMER

C2 Grade, Taper Shank

Size	Flute Length	Overall Length	Morse Taper	Model No.
1/2	2	8	MT1	241-1132
9/16	2	8	MT1	241-1136
5/8	2-1/4	9	MT2	241-1140
11/16	2-1/4	9	MT2	241-1144
3/4	2-1/2	9-1/2	MT2	241-1148
13/16	2-1/2	9-1/2	MT2	241-1152
7/8	2-5/8	10	MT2	241-1156
15/16	2-5/8	10	MT3	241-1160
1	2-3/4	10-1/2	MT3	241-1164



Cutting Tools

STRAIGHT SHANK HAND REAMER DIN206-1979

Flute Dia	Overall Length	Overall Length	DIN 206A	DIN 206B
			Straight Flute	Spiral Flute
8	58	115	241-5008	241-5108
9	62	124	241-5009	241-5109
10	66	133	241-5010	241-5110
11	71	142	241-5011	241-5111
12	76	152	241-5012	241-5112
13	76	152	241-5013	241-5113
14	81	163	241-5014	241-5114
15	81	163	241-5015	241-5115
16	87	175	241-5016	241-5116
17	87	175	241-5017	241-5117
18	93	188	241-5018	241-5118

Flute Dia	Overall Length	Overall Length	DIN 206A	DIN 206B
			Straight Flute	Spiral Flute
19	93	188	241-5019	241-5119
20	100	201	241-5020	241-5120
22	107	215	241-5022	241-5122
24	115	231	241-5024	241-5124
25	115	231	241-5025	241-5125
26	115	231	241-5026	241-5126
28	124	247	241-5028	241-5128
30	124	247	241-5030	241-5130
32	133	265	241-5032	241-5132

Flute Dia	Overall Length	Overall Length	DIN 206A	DIN 206B
			Straight Flute	Spiral Flute
34	142	284	241-5034	241-5134
35	142	284	241-5035	241-5135
36	142	284	241-5036	241-5136
38	152	305	241-5038	241-5138
40	152	305	241-5040	241-5140
42	152	305	241-5042	241-5142
44	163	326	241-5044	241-5144
45	163	326	241-5045	241-5145
46	163	326	241-5046	241-5146
48	174	347	241-5048	241-5148
50	174	347	241-5050	241-5150

STRAIGHT SHANK REAMER DIN 212-1981,HSS

Flute Dia	Overall Length	Overall Length	DIN 212/1		DIN 212/2	
			Straight Flute	Spiral Flute	Straight Flute	Spiral Flute
8	33	117	241-6008	241-6108	241-6208	241-6308
9	36	125	241-6009	241-6109	241-6209	241-6309
10	38	133	241-6010	241-6110	241-6210	241-6310
11	41	142	241-6011	241-6111	241-6211	241-6311
12	44	151	241-6012	241-6112	241-6212	241-6312
13	44	151	241-6013	241-6113	241-6213	241-6313
14	47	160	241-6014	241-6114	241-6214	241-6314

Flute Dia	Overall Length	Overall Length	DIN 212/1		DIN 212/2	
			Straight Flute	Spiral Flute	Straight Flute	Spiral Flute
15	50	162	241-6015	241-6115	241-6215	241-6315
16	52	170	241-6016	241-6116	241-6216	241-6316
17	54	175	241-6017	241-6117	241-6217	241-6317
18	56	182	241-6018	241-6118	241-6218	241-6318
19	58	189	241-6019	241-6119	241-6219	241-6319
20	60	195	241-6020	241-6120	241-6220	241-6320

MORSE TAPER SHANK REAMER DIN 208-1981,HSS

Flute Dia	Overall Length	Overall Length	Straight Flute	Spiral Flute
			Flute	Flute
8	33	156	241-7008	241-7108
9	36	162	241-7009	241-7109
10	38	168	241-7010	241-7110
11	41	175	241-7011	241-7111
12	44	182	241-7012	241-7112
13	44	182	241-7013	241-7113
14	47	189	241-7014	241-7114
15	50	204	241-7015	241-7115
16	52	210	241-7016	241-7116
17	54	214	241-7017	241-7117
18	56	219	241-7018	241-7118
19	58	223	241-7019	241-7119
20	60	228	241-7020	241-7120
22	64	237	241-7022	241-7122
24	68	268	241-7024	241-7124
25	68	268	241-7025	241-7125

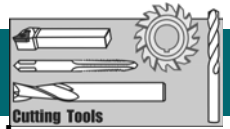
Flute Dia	Overall Length	Overall Length	Straight Flute	Spiral Flute
			Flute	Flute
26	70	273	241-7026	241-7126
28	71	277	241-7028	241-7128
30	75	281	241-7030	241-7130
32	77	317	241-7032	241-7132
34	78	321	241-7034	241-7134
35	78	321	241-7035	241-7135
36	79	325	241-7036	241-7136
38	81	329	241-7038	241-7138
40	81	329	241-7040	241-7140
42	82	333	241-7042	241-7142
44	83	336	241-7044	241-7144
45	83	336	241-7045	241-7145
46	84	340	241-7046	241-7146
48	86	344	241-7048	241-7148
50	86	344	241-7050	241-7150

MORSE TAPER SHANK REAMER DIN311-1975,HSS

Flute Dia	Overall Length	Overall Length	Straight Flute	Spiral Flute
			Flute	Flute
10	95	171	241-8010	241-8110
11	100	176	241-8011	241-8111
13	105	199	241-8013	241-8113
14	115	209	241-8014	241-8114
15	125	219	241-8015	241-8115
16	136	229	241-8016	241-8116
17	136	251	241-8017	241-8117
19	145	261	241-8019	241-8119
21	155	271	241-8021	241-8121

Flute Dia	Overall Length	Overall Length	Straight Flute	Spiral Flute
			Flute	Flute
23	165	281	241-8023	241-8123
25	180	296	241-8025	241-8125
28	195	311	241-8028	241-8128
31	210	326	241-8031	241-8131
32	210	354	241-8032	241-8132
33	210	354	241-8033	241-8133
34	220	364	241-8034	241-8134
37	220	364	241-8037	241-8137
40	230	374	241-8040	241-8140

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STRAIGHT FLUTE TAPER PIN & DIE MAKER REAMER

High Speed Steel,



Straight Flute

Size	Diameter of Small End	Diameter of Large End	Diameter of Flute Length	Overall Length	Model No.
7/0	0.0497	0.0666	13/16	1-13/16"	331-8200
6/0	0.0611	0.0806	15/16	1-15/16"	331-8202
5/0	0.0719	0.0966	1-3/16	2-3/16"	331-8204
4/0	0.0869	0.1142	1-5/16	2-5/16"	331-8206
3/0	0.1029	0.1302	1-5/16	2-5/16"	331-8208
2/0	0.1137	0.1462	1-9/16	2-9/16"	331-8210
0	0.1287	0.1638	1-11/16	2-15/16"	331-8212
1	0.1447	0.1798	1-11/16	2-15/16"	331-8214
2	0.1605	0.2008	1-15/16	3-3/16"	331-8216
3	0.1813	0.2294	2-5/16	3-11/16"	331-8218
4	0.2071	0.2604	2-9/16	4-1/16"	331-8220
5	0.2409	0.2994	2-13/16	4-5/16"	331-8222
6	0.2773	0.354	3-11/16	5-7/16"	331-8224
7	0.3297	0.422	4-7/16	6-5/16"	331-8226
8	0.3971	0.505	5-3/16	7-3/16"	331-8228
9	0.4805	0.6066	6-1/16	8-5/16"	331-8230
10	0.5799	0.7216	6-13/16	9-5/16"	331-8232
11	0.7060	0.8780	8-1/4	11-1/4"	331-8234
12	0.8420	1.0500	10	13-5/8"	331-8236
13	1.0090	1.2590	12	16"	331-8238
14	1.2500	1.5420	14	18-1/4"	331-8240

SPIRAL FLUTE TAPER PIN & DIE MAKER REAMER

High Speed Steel,



Spiral Flute

Size	Diameter of Small End	Diameter of Large End	Diameter of Flute Length	Overall Length	Model No.
7/0	0.0497	0.0666	13/16	1-13/16"	331-8300
6/0	0.0611	0.0806	15/16	1-15/16"	331-8302
5/0	0.0719	0.0966	1-3/16	2-3/16"	331-8304
4/0	0.0869	0.1142	1-5/16	2-5/16"	331-8306
3/0	0.1029	0.1302	1-5/16	2-5/16"	331-8308
2/0	0.1137	0.1462	1-9/16	2-9/16"	331-8310
0	0.1287	0.1638	1-11/16	2-15/16"	331-8312
1	0.1447	0.1798	1-11/16	2-15/16"	331-8314
2	0.1605	0.2008	1-15/16	3-3/16"	331-8316
3	0.1813	0.2294	2-5/16	3-11/16"	331-8318
4	0.2071	0.2604	2-9/16	4-1/16"	331-8320
5	0.2409	0.2994	2-13/16	4-5/16"	331-8322
6	0.2773	0.354	3-11/16	5-7/16"	331-8324
7	0.3297	0.422	4-7/16	6-5/16"	331-8326
8	0.3971	0.505	5-3/16	7-3/16"	331-8328
9	0.4805	0.6066	6-1/16	8-5/16"	331-8330
10	0.5799	0.7216	6-13/16	9-5/16"	331-8332
11	0.7060	0.8780	8-1/4	11-1/4"	331-8334
12	0.8420	1.0500	10	13-5/8"	331-8336
13	1.0090	1.2590	12	16"	331-8338
14	1.2500	1.5420	14	18-1/4"	331-8340

STRAIGHT FLUTE TAPER PIN & DIE MAKER REAMER SETS

Model No. 331-8250

0-5# 6 pcs in vinyl roll pouch

Model No. 331-8255

0-10# 11 pcs in wooden case

SPIRAL FLUTE TAPER PIN & DIE MAKER REAMER SETS

Model No. 331-8350

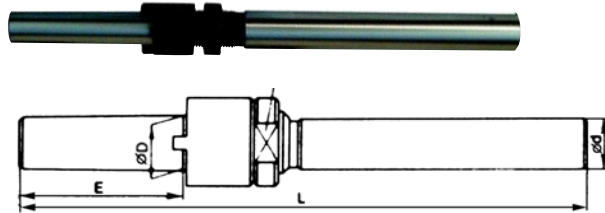
0-5# 6 pcs in vinyl roll pouch

Model No. 331-8355

0-10# 11 pcs in wooden case

E-Z EJECT SHELL REAMER ARBORS

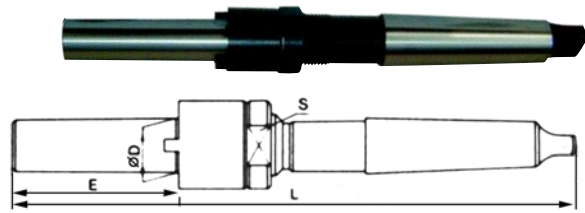
Straight Shank



Size	Shank Dia.	Fits Shell Reamer	Overall Length	Model No.
#4	1/2"	21/32"-25/32"	9"	331-2002
#5	5/8"	13/16"-1-1/32"	9-1/2"	331-2004
#6	3/4"	1-1/16"-1-9/32"	10"	331-2006
#7	7/8"	1-5/16"-1-5/8"	11"	331-2008
#8	1-1/8"	1-11/16"-2"	12"	331-2010
#9	1-3/8"	2-1/16"-2-1/2"	13"	331-2012
#10	1-5/8"	2-9/16"-3"	14"	331-2014
#11	2"	3-1/16"-3-1/2"	15"	331-2016
#12	2-1/8"	3-9/16"-4"	16"	331-2018

E-Z EJECT SHELL REAMER ARBORS

Taper Shank



Size	Morse Taper	Arbor Dia.	Fits Shell Reamer	Overall Length	Model No.
#4	MT2	3/8"	21/32"-25/32"	9"	331-2102
#5	MT2	1/2"	13/16"-1-1/32"	9-1/2"	331-2104
#6	MT3	5/8"	1-1/16"-1-9/32"	10"	331-2106
#7	MT3	3/4"	1-5/16"-1-5/8"	11"	331-2108
#8	MT4	1"	1-11/16"-2"	12"	331-2110
#9	MT4	1-1/4"	2-1/16"-2-1/2"	13"	331-2112
#10	MT5	1-1/2"	2-9/16"-3"	14"	331-2114
#11	MT5	1-3/4"	3-1/16"-3-1/2"	15"	331-2116
#12	MT5	2"	3-9/16"-4"	16"	331-2118