



LAVALLEE & IDE COMPANY

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The Reamer Specialists

America's Finest Quality
Products And Service

From

1937



to



Today

Catalogue #LI-405



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All Lavallee & Ide reamers are made to NAS 897 standards for geometric specifications.



CHUCKING REAMER SELECTION

FLUTE STYLE

- **Straight Flute**
For general purpose reaming.
- **Right Hand Spiral, Right Hand Cut**
Should be used in materials where additional shear is required and to aid in chip elimination in blind holes.
- **Left Hand Spiral, Right Hand Cut**
Should be used in machine tools where there exists excess spindle play or gear wear. These are also used for fine finishing since the design prevents drawing the cut.

REAMER TYPES: The Right Reamer for Every Job Application

LIST NO. 533, 535, 535L, 570DP, 575DP

- **Standard Chucking Reamers - High Speed Steel**

Designed for use in turret lathes, screw machines, drill presses and all types of machine tool equipment. Ground with a 45° chamfer, they are suitable for reaming most materials ordinarily encountered.

LIST NO. 1533, 1535, 1570DP, 1575DP

- **Chucking Reamers - Cobalt Steel**

Get up to 500% increased tool life through the use of cobalt steel. Get more accurate, better-finished holes from L&I's unique process of flute-grinding and close diameter tolerances. Because of the higher red hardness factor of cobalt steel, these reamers can be run approximately 25% faster than regular high-speed steel reamers.

LIST NO. SC533, SC535, SC570DP, SC575DP

- **Drill Length Chucking Reamers - High Speed Steel**

Production length reamers have the same overall lengths as jobber length drills to facilitate ease of setup in automated drilling and reaming equipment. This includes the simple dual drilling and reaming cycle operations in small drill presses or bench lathes, as well as the high cycle automatic screw machine operations. These reamers have a median overall length between stub screw machine reamers and regular length chucking reamers. They are shorter than standard length and provide cost savings.

The Reamer Specialists

Exclusive ★ New
Product!



SILVER & DEMING REAMERS

See Page 7 for Details!





Chucking Reamers - Straight Shank - High Speed Steel and Cobalt

List No. 533
List No. 535
List No. 535L
List No. 1533
List No. 1535

High Speed, Straight Flute
High Speed, Right Hand Spiral, Right Hand Cut
High Speed, Left Hand Spiral, Right Hand Cut
Cobalt, Straight Flute
Cobalt, Right Hand Spiral, Right Hand Cut



These high-quality tools are designed for most standard reaming needs.

SIZE		Flute Length	Overall Length	Shank Dia.	PRICE EACH				
Dia.	Decimal Equiv.				533 Straight Flute	535 RH Sp. RH Cut	535L LH Sp. RH Cut	1533 Cobalt Str. Flt.	1535 Cobalt RH Sp.
# 80	.0135	3/8	3/4	.0135	14.99	X	X	16.96	X
# 79	.0145	3/8	3/4	.0145	14.99	X	X	16.96	X
1/64	.0156	3/8	3/4	.0156	14.99	X	X	16.96	X
# 78	.0160	3/8	7/8	.0160	14.99	X	X	16.96	X
# 77	.0180	3/8	7/8	.0180	14.99	X	X	16.96	X
# 76	.0200	3/8	7/8	.0200	14.99	X	X	16.96	X
# 75	.0210	1/2	1	.0210	14.99	X	X	16.96	X
# 74	.0225	1/2	1	.0225	14.99	X	X	16.96	X
# 73	.0240	1/2	1 1/8	.0240	14.99	X	X	16.96	X
# 72	.0250	1/2	1 1/8	.0250	14.99	X	X	16.96	X
# 71	.0260	1/2	1 1/4	.0260	14.99	X	X	16.96	X
# 70	.0280	1/2	1 1/4	.0280	14.99	X	X	16.96	X
# 69	.0292	1/2	1 3/8	.0292	14.99	X	X	16.96	X
# 68	.0310	1/2	1 3/8	.0310	14.99	X	X	16.96	X
1/32	.0312	1/2	1 3/8	.0312	11.73	X	X	14.00	X
# 67	.0320	1/2	1 3/8	.0320	12.08	X	X	14.00	X
# 66	.0330	1/2	1 3/8	.0330	12.08	X	X	14.00	X
# 65	.0350	1/2	1 1/2	.0350	12.08	X	X	14.00	X
# 64	.0360	1/2	1 1/2	.0360	12.08	X	X	14.00	X
# 63	.0370	1/2	1 1/2	.0370	12.08	X	X	14.00	X
# 62	.0380	1/2	1 1/2	.0380	12.08	X	X	14.00	X
# 61	.0390	1/2	1 5/8	.0390	12.08	X	X	14.00	X
1mm	.0394	1/2	2 1/2	.0394	12.33	X	X	14.25	X
# 60	.0400	1/2	2 1/2	.0390	12.33	13.68	14.16	14.25	16.09
# 59	.0410	1/2	2 1/2	.0390	12.33	13.68	14.16	14.25	16.09
# 58	.0420	1/2	2 1/2	.0390	12.33	13.68	14.16	14.25	16.09
# 57	.0430	1/2	2 1/2	.0390	12.33	13.68	14.16	14.25	16.09
# 56	.0465	1/2	2 1/2	.0455	12.33	13.68	14.16	14.25	16.09
3/64	.0469	1/2	2 1/2	.0455	11.74	13.02	13.48	14.25	16.09
# 55	.0520	1/2	2 1/2	.0510	12.33	13.68	14.16	14.90	16.09
# 54	.0550	1/2	2 1/2	.0510	12.33	13.68	14.16	14.90	16.09
1.5mm	.0591	1/2	2 1/2	.0510	12.33	13.68	14.16	14.25	16.09
# 53	.0595	1/2	2 1/2	.0585	12.06	13.40	13.86	14.25	16.09
1/16	.0625	1/2	2 1/2	.0585	11.26	12.50	12.94	14.25	16.09
# 52	.0635	1/2	2 1/2	.0585	11.74	13.02	13.48	14.25	16.09
# 51	.0670	3/4	3	.0660	10.26	11.38	11.77	12.71	13.95
# 50	.0700	3/4	3	.0660	10.26	11.38	11.77	12.71	13.95
#49	.0730	3/4	3	.0660	10.26	11.38	11.77	12.71	13.95
# 48	.0760	3/4	3	.0720	10.26	11.38	11.77	12.71	13.95
5/64	.0781	3/4	3	.0720	9.91	11.00	11.39	12.16	13.05
# 47	.0785	3/4	3	.0720	10.26	11.38	11.77	12.16	13.05
2mm	.0787	3/4	3	.0771	9.91	11.00	11.77	12.16	13.05
# 46	.0810	3/4	3	.0771	9.91	11.00	11.39	12.16	13.05
# 45	.0820	3/4	3	.0771	9.91	11.00	11.39	12.16	13.05
# 44	.0860	3/4	3	.0810	9.91	11.00	11.39	12.16	13.05
# 43	.0890	3/4	3	.0810	9.91	11.00	11.39	12.16	13.05
# 42	.0935	3/4	3	.0928	9.91	11.00	11.39	12.16	13.05
3/32	.0938	3/4	3	.0880	9.09	10.11	10.45	12.16	13.05
# 41	.0960	7/8	3 1/2	.0928	10.01	11.11	11.51	12.16	13.25
# 40	.0980	7/8	3 1/2	.0928	10.01	11.11	11.51	12.16	13.25
2.5mm	.0984	7/8	3 1/2	.0928	10.01	11.11	11.51	12.16	13.25
# 39	.0995	7/8	3 1/2	.0928	10.01	11.11	11.51	12.16	13.25
# 38	.1015	7/8	3 1/2	.0950	10.01	11.11	11.51	12.16	13.25

The Reamer Specialists



Chucking Reamers - Straight Shank - High Speed Steel and Cobalt

List No. 533, **570DP*** High Speed, Straight Flute
 List No. 535, **575DP*** High Speed, Right Hand Spiral, Right Hand Cut
 List No. 535L High Speed, Left Hand Spiral, Right Hand Cut
 List No. 1533, **1570DP*** Cobalt, Straight Flute
 List No. 1535, **1575DP*** Cobalt, Right Hand Spiral, Right Hand Cut



These high-quality tools are designed for most standard reaming needs.

SIZE		Flute Length	Overall Length	Shank Dia.	PRICE EACH				
Dia.	Decimal Equiv.				533 570DP* Straight Flute	535 575DP* RH Sp. RH Cut	535L LH Sp. RH Cut	1533 1570DP* Cobalt Str. Flt.	1535 1575DP* Cobalt RH Sp.
# 37	.1040	7/8	3 1/2	.0950	10.01	11.11	11.51	12.16	13.25
# 36	.1065	7/8	3 1/2	.0950	10.01	11.11	11.51	12.16	13.25
7/64	.1094	7/8	3 1/2	.1030	9.91	11.00	11.39	12.16	13.58
# 35	.1100	7/8	3 1/2	.1030	10.01	11.11	11.51	12.16	13.58
# 34	.1110	7/8	3 1/2	.1030	10.13	11.25	11.63	12.16	13.58
# 33	.1130	7/8	3 1/2	.1055	10.17	11.30	11.70	12.16	13.58
# 32	.1160	7/8	3 1/2	.1120	10.17	11.30	11.70	12.16	13.58
3mm	.1181	7/8	3 1/2	.1120	10.17	11.30	11.70	12.16	13.58
# 31	.1200	7/8	3 1/2	.1120	10.17	11.30	11.70	12.16	13.58
Dowel Pin*	.1230	7/8	3 1/2	.1190	9.91	11.36	12.31	12.16	13.58
Under	.1240	7/8	3 1/2	.1190	9.79	10.87	11.26	12.16	13.58
Dowel Pin*	.1247	7/8	3 1/2	.1190	9.40	11.36	12.31	12.16	13.58
1/8	.1250	7/8	3 1/2	.1190	8.07	8.96	9.26	11.48	12.30
Over	.1260	7/8	3 1/2	.1190	9.79	10.87	11.26	12.10	13.58
# 30	.1285	7/8	3 1/2	.1190	10.01	11.11	11.51	12.10	13.58
# 29	.1360	1	4	.1275	11.39	12.64	13.09	13.70	16.14
3.5mm	.1378	1	4	.1350	11.39	12.64	13.09	13.71	16.15
# 28	.1405	1	4	.1350	11.39	12.64	13.09	13.71	16.15
9/64	.1406	1	4	.1350	10.90	12.10	12.53	14.45	16.15
# 27	.1440	1	4	.1350	11.99	13.31	13.79	14.45	16.15
# 26	.1470	1	4	.1430	11.99	13.29	13.79	14.45	16.72
# 25	.1495	1	4	.1430	12.06	13.40	13.87	14.45	16.72
# 24	.1520	1	4	.1460	12.06	13.40	13.87	14.45	16.72
# 23	.1540	1	4	.1460	12.06	13.40	13.87	14.45	16.72
5/32	.1562	1	4	.1510	11.27	12.51	12.95	14.45	16.72
# 22	.1570	1	4	.1510	12.06	13.40	13.87	14.45	16.72
4mm	.1575	1 1/8	4 1/2	.1530	12.33	13.68	14.16	14.45	16.72
# 21	.1590	1 1/8	4 1/2	.1530	12.33	13.68	14.16	16.29	17.27
# 20	.1610	1 1/8	4 1/2	.1530	12.33	13.68	14.16	16.29	17.27
# 19	.1660	1 1/8	4 1/2	.1595	12.33	13.68	14.16	16.29	17.27
# 18	.1695	1 1/8	4 1/2	.1595	12.33	13.68	14.16	16.29	17.27
11/64	.1719	1 1/8	4 1/2	.1645	12.09	13.42	13.89	16.29	17.27
# 17	.1730	1 1/8	4 1/2	.1645	12.33	13.68	14.16	16.29	17.27
# 16	.1770	1 1/8	4 1/2	.1704	12.33	13.68	14.16	16.29	17.27
4.5mm	.1772	1 1/8	4 1/2	.1755	12.46	13.83	14.16	16.29	17.27
# 15	.1800	1 1/8	4 1/2	.1755	12.46	13.58	14.05	16.29	17.27
# 14	.1820	1 1/8	4 1/2	.1755	12.46	13.59	14.06	16.29	17.27
# 13	.1850	1 1/8	4 1/2	.1805	12.46	13.59	14.06	16.29	17.27
Dowel Pin*	.1855	1 1/8	4 1/2	.1805	13.94	14.99	15.92	16.29	16.45
Under	.1865	1 1/8	4 1/2	.1805	12.33	13.43	13.90	16.29	16.45
Dowel Pin*	.1870	1 1/8	4 1/2	.1850	13.94	14.99	15.92	16.29	16.45
3/16	.1875	1 1/8	4 1/2	.1805	11.20	12.21	12.64	14.95	16.45
Over	.1885	1 1/8	4 1/2	.1805	12.33	13.44	13.90	16.29	16.45
# 12	.1890	1 1/8	4 1/2	.1805	12.40	13.50	13.99	14.95	16.45
# 11	.1910	1 1/4	5	.1860	12.40	13.50	13.99	16.85	18.41
# 10	.1935	1 1/4	5	.1860	12.40	13.50	13.99	16.85	18.41
#9	.1960	1 1/4	5	.1895	12.40	13.52	14.02	16.85	18.41
5mm	.1969	1 1/4	5	.1895	12.72	13.87	14.34	16.85	18.41
# 8	.1990	1 1/4	5	.1895	12.72	13.86	14.34	16.85	18.41
# 7	.2010	1 1/4	5	.1945	13.01	14.19	14.68	16.85	18.41
13/64	.2031	1 1/4	5	.1945	12.77	13.91	14.40	16.85	18.41
*Diameter Tolerances: Dowel pin reamers made to minus tolerance. All other reamers made to a plus tolerance.									
Through 1/2"		+ .0002" + .005m/m - .0000" - .000m/m		1/2" Through 5/8"		+ .0003" + .008m/m - .0000" - .000m/m		5/8" Through 1"	
								+ .0005" + .012m/m + .0001" + .0025m/m	

The Reamer Specialists





Chucking Reamers - Straight Shank - High Speed Steel and Cobalt

List No. 533, **570DP*** High Speed, Straight Flute
 List No. 535, **575DP*** High Speed, Right Hand Spiral, Right Hand Cut
 List No. 535L High Speed, Left Hand Spiral, Right Hand Cut
 List No. 1533, **1570DP*** Cobalt, Straight Flute
 List No. 1535, **1575DP*** Cobalt, Right Hand Spiral, Right Hand Cut



These high-quality tools are designed for most standard reaming needs.

SIZE		Flute Length	Overall Length	Shank Dia.	PRICE EACH				
Dia.	Decimal Equiv.				533 570DP* Straight Flute	535 575DP* RH Sp. RH Cut	535L LH Sp. RH Cut	1533 1570DP* Cobalt Str. Flt.	1535 1575DP* Cobalt RH Sp.
# 6	.2040	1 1/4	5	.1945	13.27	14.49	14.98	16.85	18.41
# 5	.2055	1 1/4	5	.2016	13.27	14.49	14.98	16.85	18.41
# 4	.2090	1 1/4	5	.2016	13.27	14.49	14.98	16.85	18.41
# 3	.2130	1 1/4	5	.2075	13.55	14.75	15.28	16.85	18.41
5.5mm	.2165	1 1/4	5	.2075	13.55	14.75	15.28	16.85	18.41
7/32	.2188	1 1/4	5	.2075	13.41	14.60	15.12	16.91	18.45
# 2	.2210	1 1/2	6	.2173	13.82	15.05	15.59	17.41	18.99
# 1	.2280	1 1/2	6	.2173	13.82	15.05	15.59	17.41	18.99
A	.2340	1 1/2	6	.2265	13.82	15.05	15.59	17.41	18.99
15/64	.2344	1 1/2	6	.2265	13.66	14.89	15.42	17.41	18.99
6mm	.2362	1 1/2	6	.2265	15.18	16.54	18.01	19.10	21.20
B	.2380	1 1/2	6	.2329	15.95	17.39	18.01	19.10	21.20
C	.2420	1 1/2	6	.2329	15.95	17.39	18.01	19.10	21.20
D	.2460	1 1/2	6	.2329	15.95	17.39	18.01	19.10	21.20
Dowel Pin*	.2480	1 1/2	6	.2405	14.62	16.56	17.48	19.10	21.20
Under	.2490	1 1/2	6	.2405	14.83	16.16	16.73	18.50	19.99
Dowel Pin*	.2495	1 1/2	6	.2405	14.83	16.56	17.48	18.50	19.99
E 1/4	.2500	1 1/2	6	.2405	12.93	14.08	14.56	18.50	19.99
Over	.2510	1 1/2	6	.2405	14.83	16.16	16.73	18.50	19.99
6.5mm	.2559	1 1/2	6	.2485	16.23	17.68	18.30	18.50	19.99
F	.2570	1 1/2	6	.2485	16.23	17.68	18.30	21.00	23.30
G	.2610	1 1/2	6	.2485	16.23	17.68	18.30	21.00	23.30
17/64	.2656	1 1/2	6	.2485	15.91	17.33	17.94	23.65	24.64
H	.2660	1 1/2	6	.2485	17.80	19.39	20.07	23.65	24.64
I	.2720	1 1/2	6	.2485	17.80	19.39	20.07	23.65	24.65
7mm	.2756	1 1/2	6	.2485	17.80	19.39	20.07	23.65	24.65
J	.2770	1 1/2	6	.2485	17.80	19.39	20.07	23.65	24.65
K	.2810	1 1/2	6	.2485	17.28	18.82	19.49	23.65	24.65
9/32	.2812	1 1/2	6	.2485	16.94	18.47	19.12	22.45	23.43
L	.2900	1 1/2	6	.2792	17.96	19.12	19.80	23.65	24.64
M	.2950	1 1/2	6	.2792	17.96	19.12	19.80	23.65	24.64
7.5mm	.2953	1 1/2	6	.2792	17.96	19.12	19.80	23.65	24.64
19/64	.2969	1 1/2	6	.2792	17.28	18.42	19.04	23.65	24.64
N	.3020	1 1/2	6	.2792	18.13	19.32	19.99	23.65	24.64
Dowel Pin*	.3105	1 1/2	6	.2792	16.73	18.39	19.40	25.66	28.19
Under	.3115	1 1/2	6	.2792	16.46	17.55	18.14	22.48	23.41
Dowel Pin*	.3120	1 1/2	6	.2792	16.73	18.39	19.40	25.66	28.19
5/16	.3125	1 1/2	6	.2792	15.33	16.33	16.89	21.32	22.18
Over	.3135	1 1/2	6	.2792	16.46	17.55	18.14	22.48	23.41
8mm	.3150	1 1/2	6	.2792	19.01	20.24	20.94	24.40	26.51
O	.3160	1 1/2	6	.2792	19.01	20.24	20.94	24.40	26.51
P	.3230	1 1/2	6	.2792	19.11	20.34	21.06	25.51	26.51
21/64	.3281	1 1/2	6	.2792	19.02	20.27	20.97	25.51	26.51
Q	.3320	1 1/2	6	.2792	19.20	20.44	21.16	25.51	26.51
8.5mm	.3346	1 1/2	6	.2792	19.19	20.44	21.16	25.51	26.51
R	.3390	1 1/2	6	.2792	19.19	20.44	21.15	25.51	26.51
11/32	.3438	1 1/2	6	.2792	19.09	20.34	21.06	25.51	26.51
S	.3480	1 1/2	7	.3105	19.28	20.54	21.25	25.93	26.88
9mm	.3543	1 3/4	7	.3105	19.28	20.54	21.25	25.93	26.88
T	.3580	1 3/4	7	.3105	19.28	20.54	21.25	25.93	26.88
23/64	.3594	1 3/4	7	.3105	19.09	20.33	21.04	25.93	26.88
U	.3680	1 3/4	7	.3105	19.39	20.65	21.37	25.93	26.88
9.5mm	.3740	1 3/4	7	.3105	17.80	18.94	21.37	25.93	26.88
*Diameter Tolerances: Dowel pin reamers made to minus tolerance. All other reamers made to a plus tolerance.									
Through 1/2"		+0.002" +.005m/m -.0000" -.000m/m		1/2" Through 5/8"		+0.003" +.008m/m -.0000" -.000m/m		5/8" Through 1"	
								+.0005" +.012m/m +.0001" +.0025m/m	

The Reamer Specialists



Chucking Reamers - Straight Shank - High Speed Steel and Cobalt

- List No. 533, **570DP*** High Speed, Straight Flute
 List No. 535, **575DP*** High Speed, Right Hand Spiral, Right Hand Cut
 List No. 535L High Speed, Left Hand Spiral, Right Hand Cut
 List No. 1533, **1570DP*** Cobalt, Straight Flute
 List No. 1535, **1575DP*** Cobalt, Right Hand Spiral, Right Hand Cut



These high-quality tools are designed for most standard reaming needs.

SIZE		Flute Length	Overall Length	Shank Dia.	PRICE EACH				
Dia.	Decimal Equiv.				533 570DP* Straight Flute	535 575DP* RH Sp. RH Cut	535L LH Sp. RH Cut	1533 1570DP* Cobalt Str. Flt.	1535 1575DP* Cobalt RH Sp.
3/8	.3750	1 3/4	7	.3105	16.94	18.04	18.69	24.64	27.28
Over	.3760	1 3/4	7	.3105	17.80	18.94	19.62	31.65	35.13
V	.3770	1 3/4	7	.3105	18.69	19.89	20.59	31.65	35.13
W	.3860	1 3/4	7	.3105	19.72	21.01	21.75	31.65	35.13
25/64	.3906	1 3/4	7	.3105	19.91	21.22	21.96	31.65	35.13
10mm	.3937	1 3/4	7	.3105	19.91	21.22	21.96	31.65	35.13
X	.3970	1 3/4	7	.3105	19.91	21.22	21.96	31.65	35.13
Y	.4040	1 3/4	7	.3105	19.91	21.22	21.96	31.65	35.13
13/32	.4062	1 3/4	7	.3105	20.00	21.30	22.05	31.65	35.13
Z	.4130	1 3/4	7	.3730	20.32	21.63	22.40	31.65	35.13
10.5mm	.4134	1 3/4	7	.3730	20.32	21.63	22.63	31.65	35.13
27/64	.4219	1 3/4	7	.3730	20.52	21.85	22.63	31.65	35.13
11mm	.4330	1 3/4	7	.3730	20.52	21.85	23.88	31.65	35.13
Dowel Pin*	.4355	1 3/4	7	.3730	20.81	22.72	23.88	31.82	34.82
Under	.4365	1 3/4	7	.3730	20.69	22.04	22.81	31.65	35.13
Dowel Pin*	.4370	1 3/4	7	.3730	20.81	22.72	23.88	36.75	40.13
7/16	.4375	1 3/4	7	.3730	19.71	21.00	21.74	30.05	32.21
Over	.4385	1 3/4	7	.3730	20.69	22.04	22.81	31.65	33.91
11.5mm	.4528	1 3/4	7	.3730	23.37	24.87	25.76	36.27	38.85
29/64	.4531	1 3/4	7	.3730	23.37	24.87	25.76	36.27	38.85
15/32	.4688	1 3/4	7	.3730	23.60	25.15	26.01	36.27	38.85
12mm	.4724	2	8	.4355	23.60	25.15	X	36.50	X
12.5mm	.4921	2	8	.4355	23.22	24.73	X	36.50	X
Under	.4990	2	8	.4355	23.75	25.30	24.98	36.50	39.20
1/2	.5000	2	8	.4355	21.59	23.00	23.80	29.20	36.99
Over	.5010	2	8	.4355	23.75	25.30	24.98	36.50	39.20
13mm	.5118	2	8	.4355	25.66	27.33	X	X	X
33/64	.5156	2	8	.4355	25.96	27.62	X	X	X
17/32	.5312	2	8	.4355	26.44	28.16	29.14	40.65	43.55
13.5mm	.5315	2	8	.4355	26.44	28.16	X	X	X
35/64	.5469	2	8	.4355	26.66	28.27	X	X	X
14mm	.5512	2	8	.4355	27.18	28.95	X	X	X
Under	.5615	2	8	.4355	28.38	30.24	X	43.18	46.26
9/16	.5625	2	8	.4355	25.80	27.49	28.44	39.25	42.05
Over	.5635	2	8	.4355	28.38	30.24	X	43.18	46.26
14.5mm	.5709	2	8	.4355	29.20	31.10	X	X	X
37/64	.5781	2	8	.4355	29.20	31.10	X	X	X
15mm	.5906	2	8	.4355	29.69	31.62	X	X	X
19/32	.5938	2	8	.4355	31.21	33.23	34.39	39.23	42.05
39/64	.6094	2	8	.5620	32.33	34.42	X	X	X
15.5mm	.6102	2	8	.5620	32.33	34.42	X	X	X
Under	.6240	2 1/4	9	.5620	33.08	35.23	X	50.33	54.85
5/8	.6250	2 1/4	9	.5620	30.07	32.03	33.15	45.75	49.02
Over	.6260	2 1/4	9	.5620	33.08	35.23	X	50.33	54.85
16mm	.6299	2 1/4	9	.5620	32.82	34.97	X	X	X
41/64	.6406	2 1/4	9	.5620	33.56	35.73	X	X	X
16.5mm	.6496	2 1/4	9	.5620	33.56	35.73	X	X	X
21/32	.6562	2 1/4	9	.5620	33.13	35.63	36.86	51.75	55.46
17mm	.6693	2 1/4	9	.5620	34.76	37.36	X	X	X
43/64	.6719	2 1/4	9	.5620	34.76	37.36	X	X	X
Under	.6865	2 1/4	9	.5620	37.33	40.13	X	56.93	62.00

*Diameter Tolerances: Dowel pin reamers made to minus tolerance. All other reamers made to a plus tolerance.

Through 1/2"	+ .0002" + .005m/m - .0000" - .000m/m	1/2" Through 5/8"	+ .0003" + .008m/m - .0000" - .000m/m	5/8" Through 1"	+ .0005" + .012m/m + .0001" + .0025m/m
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The Reamer Specialists





Chucking Reamers - Straight Shank - High Speed Steel and Cobalt

List No. 533
List No. 535
List No. 535L
List No. 1533
List No. 1535

High Speed, Straight Flute
High Speed, Right Hand Spiral, Right Hand Cut
High Speed, Left Hand Spiral, Right Hand Cut
Cobalt, Straight Flute
Cobalt, Right Hand Spiral, Right Hand Cut



These high-quality tools are designed for most standard reaming needs.

SIZE		Flute Length	Overall Length	Shank Dia.	PRICE EACH				
Dia.	Decimal Equiv.				533 Straight Flute	535 RH Sp. RH Cut	535L LH Sp. RH Cut	1533 Cobalt Str. Flt.	1535 Cobalt RH Sp.
11/16	.6875	2 1/4	9	.5620	33.94	36.48	37.76	51.75	55.42
Over	.6885	2 1/4	9	.5620	37.33	40.13	X	56.93	60.96
17.5mm	.6890	2 1/4	9	.5620	35.32	37.97	X	X	X
45/64	.7031	2 1/4	9	.5620	37.20	39.98	X	X	X
18mm	.7087	2 1/4	9	.5620	37.20	39.98	X	X	X
23/32	.7188	2 1/4	9	.5620	38.45	41.36	42.79	57.71	61.83
18.5mm	.7283	2 1/4	9	.5620	39.56	42.54	X	X	X
47/64	.7344	2 1/4	9	.5620	39.56	42.54	X	X	X
19mm	.7480	2 1/2	9 1/2	.6245	40.57	43.61	X	X	X
Under	.7490	2 1/2	9 1/2	.6245	33.75	43.90	X	66.24	70.98
3/4	.7500	2 1/2	9 1/2	.6245	37.13	39.91	41.30	60.22	64.53
Over	.7510	2 1/2	9 1/2	.6245	33.75	43.90	X	66.24	70.98
49/64	.7656	2 1/2	9 1/2	.6245	43.07	46.29	X	X	X
19.5mm	.7677	2 1/2	9 1/2	.6245	43.07	46.29	X	X	X
25/32	.7812	2 1/2	9 1/2	.6245	41.58	44.69	46.25	62.61	67.08
20 MM	.7874	2 1/2	9 1/2	.6245	43.07	46.29	X	X	X
51/64	.7969	2 1/2	9 1/2	.6245	44.07	47.38	X	X	X
20.5mm	.8071	2 1/2	9 1/2	.6245	44.82	48.18	X	X	X
Under	.8115	2 1/2	9 1/2	.6245	47.80	51.38	X	68.87	73.79
13/16	.8125	2 1/2	9 1/2	.6245	43.45	46.71	48.33	62.61	67.08
Over	.8135	2 1/2	9 1/2	.6245	47.80	51.38	X	68.87	73.79
21mm	.8680	2 1/2	9 1/2	.6245	49.08	52.75	X	X	X
53/64	.8281	2 1/2	9 1/2	.6245	49.96	53.71	X	X	X
27/32	.8438	2 1/2	9 1/2	.6245	48.45	52.08	53.90	74.10	79.41
21.5mm	.8465	2 1/2	9 1/2	.7495	49.08	52.75	X	X	X
55/64	.8594	2 1/2	9 1/2	.7495	49.44	53.16	X	X	X
22mm	.8661	2 1/2	9 1/2	.7495	49.08	52.75	X	X	X
Under	.8740	2 5/8	10	.7495	52.69	56.60	X	83.39	89.34
7/8	.8750	2 5/8	10	.7495	47.88	51.46	53.28	75.81	81.22
Over	.8760	2 5/8	10	.7495	52.69	56.60	X	83.39	89.34
22.5mm	.8858	2 5/8	10	.7495	55.32	59.48	X	X	X
57/64	.8906	2 5/8	10	.7495	56.07	60.27	X	X	X
23mm	.9550	2 5/8	10	.7495	56.07	60.27	X	X	X
29/32	.9062	2 5/8	10	.7495	54.08	58.13	60.17	82.50	92.50
59/64	.9219	2 5/8	10	.7495	56.21	60.42	X	X	X
23.5mm	.9252	2 5/8	10	.7495	56.21	60.42	X	X	X
Under	.9365	2 5/8	10	.7495	63.60	68.39	X	89.85	96.31
15/16	.9375	2 5/8	10	.7495	57.82	62.17	64.34	81.68	87.55
Over	.9385	2 5/8	10	.7495	63.60	68.39	X	89.85	96.31
24mm	.9449	2 5/8	10	.7495	60.94	65.52	X	X	X
61/64	.9531	2 5/8	10	.7495	61.38	65.98	X	X	X
24.5mm	.9646	2 5/8	10	.7495	61.57	66.19	X	X	X
31/32	.9688	2 5/8	10	.7495	60.63	65.18	67.45	91.45	98.01
25mm	.9842	2 3/4	10 1/2	.8745	60.83	65.38	X	X	X
63/64	.9844	2 3/4	10 1/2	.8745	60.83	65.38	X	X	X
Under	.9990	2 3/4	10 1/2	.8745	65.41	70.00	X	101.56	108.69
1	1	2 3/4	10 1/2	.8745	59.46	63.63	65.85	92.33	98.81
Over	1.0010	2 3/4	10 1/2	.8745	75.01	80.33	X	101.56	108.69
25.5mm	1.0039	2 3/4	10 1/2	.8745	68.27	73.03	X	X	X
1 1/32	1.0312	2 3/4	10 1/2	.8745	69.54	74.40	X	X	X
1 1/16	1.0625	2 3/4	10 1/2	.8745	68.25	73.01	74.83	102.36	X
1 3/32	1.0938	2 7/8	11	.8745	77.18	82.85	X	X	X
1 1/8	1.1250	2 7/8	11	.8745	72.89	77.99	79.95	108.81	X
1 5/32	1.1562	2 7/8	11	.9995	84.20	90.05	X	X	X
1 3/16	1.1875	2 7/8	11	.9995	82.15	87.91	90.11	127.43	X

The Reamer Specialists



Chucking Reamers - Straight Shank - High Speed Steel and Cobalt

List No. 533	High Speed, Straight Flute
List No. 535	High Speed, Right Hand Spiral, Right Hand Cut
List No. 535L	High Speed, Left Hand Spiral, Right Hand Cut
List No. 1533	Cobalt, Straight Flute
List No. 1535	Cobalt, Right Hand Spiral, Right Hand Cut



These high-quality tools are designed for most standard reaming needs.

SIZE		Flute Length	Overall Length	Shank Dia.	PRICE EACH			
Dia.	Decimal Equiv.				533 Straight Flute	535 RH Sp. RH Cut	535L LH Sp. RH Cut	1533 Cobalt Str. Flt.
1 7/32	1.2188	2 7/8	11 1/2	.9990	95.62	102.31	X	X
1 1/4	1.2500	3	11 1/2	.9990	90.27	96.58	98.99	135.03
1 9/32	1.2812	3	11 1/2	.9990	104.64	111.96	X	X
1 5/16	1.3125	3	11 1/2	.9990	100.85	107.92	110.63	157.53
1 11/32	1.3438	3 1/4	12	.9990	112.68	120.56	X	X
1 3/8	1.3750	3 1/4	12	.9990	108.49	116.07	118.98	165.55
1 13/32	1.4062	3 1/4	12	1.2495	120.32	128.74	X	X
1 7/16	1.4375	3 1/4	12	1.2495	117.75	125.98	129.14	177.51
1 15/32	1.4688	3 1/2	12 1/2	1.2495	129.64	138.72	X	X
1 1/2	1.5000	3 1/2	12 1/2	1.2495	127.00	135.87	139.28	198.22
1 9/16	1.5625	3 1/2	12 1/2	1.2500	389.75	X	X	X
1 5/8	1.6250	3 5/8	13	1.2500	389.75	X	X	X
1 11/16	1.6875	3 5/8	13	1.2500	429.00	X	X	X
1 3/4	1.7500	4	13 1/2	1.2500	429.00	X	X	X
1 7/8	1.8750	4	14	1.5000	478.80	X	X	X
2	2.0000	4	14	1.5000	478.80	X	X	X

Silver & Deming Reamers - High Speed Steel 6" Overall Length - 1/2" Shank

List No. 5303 Straight Flute

The shorter length provides extra rigidity and strength in tough materials. They are ideal for Bridgeport, and hand-held applications.

Diameter	Decimal Equiv.	Flute Length	Price Each
5/8	.6250	2 1/4	36.08
11/16	.6875	2 1/4	40.73
3/4	.7500	2 1/2	44.56
13/16	.8125	2 1/2	52.14
7/8	.8750	2 5/8	57.46
1	1.0000	2 3/4	71.35
1 1/8	1.1250	2 7/8	87.47
1 1/4	1.2500	3	108.32
1 3/8	1.3750	3 1/4	129.83
1 1/2	1.5000	3 1/2	152.40

Patent Pending.



Exclusive
New
Product!



Set	Set	Set
1/2" Shank Reamer 6 PIECE SET Contains 1 Piece of Each: 5/8, 11/16, 3/4, 13/16, 7/8, 1 SET NO. 75 Supplied in Wood Block SET PRICE - \$299.00	1/2" Shank Reamer 10 PIECE SET Contains 1 Piece of Each: 5/8, 11/16, 3/4, 13/16, 7/8 1, 1 1/8, 1 1/4, 1 3/8, 1 1/2 SET NO. 76 Supplied in Wood Block SET PRICE - \$779.00	1/2" Shank REAMER + DRILL SET 12 PIECES Contains 1 Drill + 1 Reamer of: 5/8, 11/16, 3/4, 13/16, 7/8, 1 SET NO. 77 Supplied in Wood Block SET PRICE - \$569.00



The Reamer Specialists





Chucking Reamers - High Speed Steel and Cobalt

Stocked Standard Intermediate Sizes

- List No. 533 High Speed Steel, Straight Flute
 List No. 535 High Speed Steel, Right Hand Spiral, Right Hand Cut
 List No. 1533 Cobalt, Straight Flute
 List No. 1535 Cobalt, Right Hand Spiral, Right Hand Cut



Non-standard intermediate sizes are also available from stock.

Please inquire.

The Reamer Specialists

.0195	.0655	.0985	.1320	.1640	.1995	.2315	.2305	.2920	.3240	.3525	.3835	.4120	.4425	.4695	.4965	.5715	.7475	.9355
.0270	.0660	.0990	.1325	.1645	.2000	.1320	.2310	.2925	.3245	.3530	.3840	.4125	.4430	.4700	.4970	.5735	.7485	.9360
.0295	.0665	.1000	.1330	.1650	.2005	.1325	.2640	.2930	.3250	.3535	.3845	.4135	.4435	.4705	.4975	.5800	.7495	.9370
.0300	.0675	.1005	.1335	.1655	.2015	.2330	.2645	.2935	.3255	.3540	.3850	.4140	.4440	.4710	.4985	.5830	.7505	.9380
.0305	.0680	.1010	.1340	.1665	.2020	.2335	.2650	.2940	.3260	.3545	.3855	.4145	.4445	.4715	.5005	.5850	.7515	.9390
.0315	.0685	.1020	.1345	.1670	.2025	.2445	.2655	.2945	.3265	.3550	.3865	.4150	.4450	.4720	.5015	.5900	.7520	.9395
.0325	.0690	.1025	.1350	.1675	.2030	.2350	.2665	.2955	.3270	.3555	.3870	.4155	.4455	.4725	.5020	.5905	.7525	.9400
.0335	.0695	.1030	.1355	.1680	.2035	.2355	.2670	.2960	.3275	.3560	.3875	.4165	.4460	.4730	.5025	.5980	.7530	.9405
.0340	.0705	.1035	.1365	.1685	.2045	.2360	.2675	.2965	.3280	.3565	.3880	.4170	.4465	.4735	.5030	.6000	.7540	.9420
.0355	.0710	.1045	.1370	.1690	.2050	.2365	.2680	.2970	.3285	.3570	.3885	.4175	.4470	.4740	.5035	.6120	.7550	.9580
.0365	.0715	.1050	.1375	.1700	.2060	.2370	.2685	.2975	.3290	.3575	.3890	.4180	.4475	.4745	.5040	.6130	.7650	.9740
.0385	.0720	.1055	.1380	.1705	.2065	.2375	.2690	.2980	.3295	.3585	.3895	.4185	.4480	.4750	.5045	.6160	.7700	.9790
.0395	.0725	.1060	.1385	.1710	.2070	.2385	.2695	.2985	.3300	.3590	.3900	.4190	.4485	.4755	.5050	.6190	.7710	.9890
.0405	.0735	.1070	.1390	.1715	.2075	.2390	.2700	.2990	.3305	.3595	.3905	.4195	.4490	.4760	.5055	.6200	.7850	.9970
.0415	.0740	.1075	.1395	.1720	.2080	.2395	.2705	.2995	.3310	.3600	.3910	.4200	.4495	.4765	.5060	.6205	.7870	.9975
.0425	.0745	.1080	.1400	.1725	.2085	.2400	.2710	.3000	.3315	.3605	.3915	.4205	.4500	.4770	.5070	.6215	.8000	.9980
.0435	.0750	.1085	.1410	.1735	.2095	.2405	.2715	.3005	.3325	.3610	.3920	.4210	.4505	.4775	.5080	.6220	.8030	.9985
.0440	.0755	.1090	.1415	.1740	.2100	.2410	.2720	.3010	.3330	.3615	.3925	.4215	.4510	.4780	.5090	.6225	.8095	.9990
.0445	.0765	.1095	.1420	.1745	.2105	.2415	.2725	.3015	.3335	.3620	.3930	.4220	.4515	.4785	.5100	.6230	.8100	.9995
.0450	.0770	.1105	.1425	.1750	.2110	.2425	.2730	.3025	.3340	.3625	.3935	.4225	.4520	.4790	.5140	.6235	.8105	1.0005
.0455	.0775	.1115	.1430	.1755	.2115	.2430	.2735	.3030	.3345	.3630	.3940	.4230	.4525	.4795	.5150	.6245	.8110	
.0460	.0780	.1120	.1435	.1760	.2120	.2435	.2740	.3035	.3350	.3635	.3945	.4235	.4530	.4800	.5175	.6255	.8120	
.0470	.0790	.1125	.1445	.1765	.2125	.2440	.2745	.3040	.3355	.3640	.3950	.4240	.4535	.4805	.5200	.6265	.8130	
.0475	.0795	.1135	.1450	.1775	.2135	.2445	.2750	.3045	.3360	.3645	.3955	.4245	.4540	.4810	.5210	.6270	.8140	
.0480	.0800	.1140	.1455	.1780	.2140	.2450	.2755	.3050	.3365	.3650	.3960	.4250	.4545	.4815	.5240	.6275	.8145	
.0485	.0805	.1145	.1460	.1785	.2145	.2455	.2760	.3055	.3370	.3655	.3965	.4255	.4550	.4820	.5250	.6280	.8150	
.0490	.0815	.1150	.1465	.1790	.2150	.2465	.2765	.3060	.3375	.3660	.3975	.4260	.4555	.4825	.5300	.6290	.8155	
.0495	.0825	.1155	.1475	.1795	.2155	.2470	.2775	.3065	.3380	.3665	.3980	.4265	.4560	.4830	.5320	.6300	.8190	
.0500	.0830	.1160	.1480	.1805	.2160	.2475	.2780	.3070	.3385	.3670	.3985	.4270	.4565	.4835	.5330	.6310	.8215	
.0505	.0835	.1165	.1485	.1810	.2170	.2485	.2785	.3075	.3395	.3675	.3990	.4275	.4570	.4840	.5350	.6320	.8350	
.0510	.0840	.1170	.1490	.1815	.2175	.2505	.2790	.3080	.3400	.3685	.3995	.4280	.4575	.4845	.5360	.6340	.8490	
.0515	.0845	.1175	.1500	.1825	.2180	.2515	.2795	.3085	.3405	.3690	.4000	.4285	.4580	.4850	.5410	.6845	.8640	
.0525	.0850	.1180	.1505	.1830	.2185	.2520	.2800	.3090	.3410	.3695	.4005	.4290	.4585	.4855	.5415	.6850	.8660	
.0530	.0855	.1185	.1510	.1835	.2190	.2525	.2805	.3095	.3415	.3700	.4010	.4295	.4590	.4860	.5420	.6855	.8690	
.0535	.0865	.1190	.1515	.1840	.2195	.2530	.2815	.3100	.3420	.3705	.4015	.4300	.4595	.4865	.5450	.6860	.8720	
.0540	.0870	.1195	.1525	.1845	.2200	.2535	.2820	.3110	.3425	.3710	.4020	.4305	.4600	.4870	.5480	.6870	.8725	
.0545	.0875	.1205	.1530	.1860	.2205	.2540	.2825	.3130	.3430	.3715	.4025	.4310	.4605	.4875	.5510	.6880	.8730	
.0555	.0880	.1210	.1535	.1880	.2215	.2545	.2830	.3140	.3435	.3720	.4030	.4315	.4610	.4880	.5530	.6865	.8735	
.0560	.0885	.1215	.1545	.1895	.2220	.2550	.2835	.3145	.3440	.3725	.4035	.4320	.4615	.4885	.5570	.6890	.8745	
.0565	.0895	.1220	.1550	.1900	.2225	.2555	.2840	.3155	.3445	.3735	.4045	.4325	.4620	.4890	.5590	.6895	.8755	
.0570	.0900	.1225	.1555	.1905	.2230	.2560	.2845	.3165	.3450	.3755	.4050	.4330	.4625	.4895	.5595	.6900	.8760	
.0575	.0905	.1235	.1560	.1915	.2235	.2565	.2850	.3170	.3455	.3765	.4055	.4335	.4630	.4900	.5600	.6905	.8765	
.0580	.0910	.1245	.1565	.1920	.2240	.2575	.2855	.3175	.3460	.3775	.4060	.4340	.4635	.4905	.5605	.6975	.8770	
.0585	.0915	.1255	.1580	.1925	.2245	.2580	.2860	.3180	.3465	.3780	.4065	.4345	.4640	.4910	.5620	.7015	.8775	
.0590	.0920	.1265	.1585	.1930	.2250	.2585	.2865	.3185	.3470	.3785	.4070	.4350	.4645	.4915	.5630	.7080	.8780	
.0600	.0925	.1270	.1595	.1940	.2255	.2590	.2870	.3190	.3475	.3790	.4075	.4360	.4650	.4920	.5640	.7200	.8800	
.0605	.0930	.1275	.1600	.1945	.2260	.2595	.2875	.3195	.3485	.3795	.4080	.4380	.4655	.4925	.5645	.7230	.8930	
.0610	.0940	.1280	.1605	.1950	.2265	.2600	.2880	.3200	.3490	.3800	.4085	.4390	.4660	.4930	.5650	.7330	.8950	
.0615	.0945	.1290	.1610	.1955	.2270	.2605	.2885	.3205	.3495	.3805	.4090	.4395	.4665	.4935	.5655	.7350	.9100	
.0620	.0950	.1295	.1615	.1965	.2275	.2615	.2890	.3210	.3500	.3810	.4095	.4400	.4670	.4940	.5660	.7390	.9200	
.0630	.0955	.1300	.1620	.1970	.2285	.2620	.2895	.3215	.3505	.3815	.4100	.4405	.4675	.4945	.5670	.7405	.9260	
.0640	.0965	.1305	.1625	.1975	.2290	.2625	.2905	.3220	.3510	.3820	.4105	.4410	.4680	.4950	.5680	.7450	.9340	
.0645	.0970	.1310	.1630	.1980	.2295	.2630	.2910	.3225	.3515	.3825	.4110	.4415	.4685	.4955	.5690	.7460	.9345	
.0650	.0975	.1315	.1635	.1985	.2300	.2635	.2915	.3235	.3520	.3830	.4115	.4420	.4690	.4960	.5700	.7470	.9350	



Chucking Reamers - High Speed Steel and Cobalt

- List No. 533 High Speed Steel, Straight Flute
 List No. 535* High Speed Steel, Right Hand Spiral, Right Hand Cut
 List No. 1533 Cobalt, Straight Flute
 List No. 1535* Cobalt, Right Hand Spiral, Right Hand Cut



*Add 10% for spiral flute series.

Size Range	533/535 High Speed Steel Price each in quantities of			1533/1535 - Cobalt Price each in quantities of					
	1 to 5	6 to 23	24+	1	2	3-5	6-7	8-11	12-17
.0195 - .0399	19.50	18.99	13.95	--	--	--	--	--	--
.0400 - .0468	19.38	14.11	13.24	--	--	--	--	--	--
.0470 - .0624	18.57	13.31	12.44	--	--	--	--	--	--
.0626 - .0780	16.97	11.71	10.83	86.94	51.59	38.04	26.25	24.66	18.77
.0782 - .0937	16.15	10.88	10.01	85.97	50.65	37.10	25.32	23.72	17.84
.0939 - .1093	17.34	12.06	11.20	87.41	51.94	38.41	26.62	25.01	19.14
.1095 - .1249	15.15	9.89	9.02	84.84	49.60	36.08	24.28	22.68	16.81
.1251 - .1405	19.38	14.11	13.24	89.20	53.56	40.03	28.23	27.26	20.76
.1407 - .1561	18.54	13.27	12.40	89.20	53.56	40.03	28.23	27.26	20.76
.1563 - .1718	19.38	14.11	13.24	89.20	53.56	40.03	28.23	27.26	20.76
.1720 - .1874	18.36	13.10	12.24	88.12	52.56	42.79	27.25	25.64	19.76
.1876 - .2030	22.20	16.92	16.05	92.40	56.48	42.96	31.15	29.56	23.68
.2032 - .2343	21.75	16.47	15.60	93.33	47.34	43.80	32.00	30.79	24.53
.2345 - .2499	20.21	14.96	14.09	90.20	54.47	40.94	29.14	27.54	21.67
.2501 - .2655	22.95	17.68	16.83	91.12	63.60	50.05	38.27	36.67	30.80
.2657 - .2811	24.00	18.73	16.83	92.61	65.08	51.56	39.75	38.16	32.28
.2813 - .2968	24.84	19.58	18.71	93.77	66.24	52.71	40.93	39.32	33.44
.2970 - .3124	22.67	17.40	16.54	90.67	63.15	49.60	37.82	36.21	30.35
.3126 - .3593	26.06	20.79	19.93	95.49	67.98	54.43	42.64	41.04	35.18
.3595 - .3749	24.00	18.73	17.86	90.18	62.66	49.12	37.33	35.73	29.85
.3751 - .3905	28.18	22.92	22.05	97.46	69.94	56.41	44.60	43.01	37.13
.3907 - .4218	28.71	23.44	22.58	97.46	69.94	56.41	44.60	43.01	37.13
.4220 - .4374	27.14	21.88	21.01	96.09	68.57	55.03	43.24	41.63	35.75
.4376 - .4843	30.88	25.62	24.74	106.27	78.75	65.22	53.42	51.83	45.33
.4845 - .4999	28.86	23.59	22.72	110.90	77.13	63.59	51.80	50.20	44.32
.5001 - .5311	34.01	28.73	27.86	111.44	83.94	70.38	58.60	57.00	51.12
.5313 - .5624	33.35	28.09	27.24	110.41	82.89	69.36	57.56	55.97	50.07
.5626 - .5937	38.24	32.98	32.11	117.37	89.86	76.31	64.53	62.93	57.05
.5939 - .6249	37.72	32.46	31.57	117.37	89.86	76.31	64.53	62.93	57.05
.6251 - .6561	41.85	36.58	35.72	123.31	95.79	82.25	70.47	68.86	62.99
.6563 - .6874	41.97	36.72	35.85	122.71	95.19	82.27	69.87	68.27	62.38
.6876 - .7189	47.44	42.17	41.29	131.23	103.71	90.16	78.39	76.78	70.91
.7189 - .7499	46.04	40.77	39.90	128.77	101.25	87.72	75.93	74.33	68.45
.7501 - .8124	73.47	51.10	48.32	144.76	117.24	103.71	91.92	90.32	84.44
.8126 - .8437	79.59	56.28	53.52	155.15	127.63	114.08	102.30	100.70	94.83
.8439 - .8749	78.42	57.74	53.99	153.08	125.55	112.02	100.23	98.63	92.77
.8751 - .9374	84.74	62.92	61.22	161.49	133.98	120.44	108.64	107.04	101.17
.9376 - .9687	91.82	69.07	66.31	163.63	136.11	122.57	110.79	109.19	103.31
.9689 - 1.0005	90.59	70.39	67.58	171.15	143.63	130.10	118.31	116.71	110.84

-- Cobalt reamers over 17 pieces are priced on request.



The Reamer Specialists





The Reamer Specialists



Chucking Reamers - Drill Length - High Speed Steel - Straight Shank

List No. SC533, **SC570DP*** Straight Flute

List No. SC535, **SC575DP*** Right Hand Spiral, Right Hand Cut



This series is made identical in length with the jobber series drill. This allows for interchangeability of tools and eliminates costly setup. Shorter length provides extra rigidity and strength in tough materials. In addition, this series provides cost savings.

SIZE		Flute Length	Overall Length	Shank Diameter	PRICE EACH	
Diameter	Decimal Equivalent				SC533 SC570DP* Str. Shank Str. Flute	SC535 SC575DP* Str. Shank RH Sp/Cut
# 60	.0400	1/2	1 5/8	.0400	10.45	11.99
# 59	.0410	1/2	1 5/8	.0410	10.45	11.99
# 58	.0420	1/2	1 5/8	.0420	10.45	11.99
# 57	.0430	1/2	1 3/4	.0430	10.45	11.99
# 56	.0465	1/2	1 3/4	.0465	10.45	11.99
3/64	.0469	1/2	1 3/4	.0469	10.45	11.99
# 55	.0520	1/2	1 7/8	.0520	10.45	11.99
# 54	.0550	1/2	1 7/8	.0550	10.45	11.99
# 53	.0595	1/2	1 7/8	.0595	10.45	11.99
1/16	.0625	1/2	1 7/8	.0625	9.79	11.99
# 52	.0635	1/2	1 7/8	.0635	9.79	11.99
# 51	.0670	3/4	2	.0670	8.69	9.64
# 50	.0700	3/4	2	.0700	8.49	9.64
# 49	.0730	3/4	2	.0730	8.49	9.64
# 48	.0760	3/4	2	.0760	8.49	9.64
5/64	.0781	3/4	2	.0781	8.49	9.64
# 47	.0785	3/4	2	.0785	8.49	9.64
# 46	.0810	3/4	2 1/8	.0810	8.49	9.64
# 45	.0820	3/4	2 1/8	.0820	8.49	9.64
# 44	.0860	3/4	2 1/8	.0860	8.49	9.64
# 43	.0890	3/4	2 1/4	.0890	8.49	9.64
# 42	.0935	3/4	2 1/4	.0935	8.49	9.64
3/32	.0938	3/4	2 1/4	.0938	8.49	9.64
# 41	.0960	7/8	2 3/8	.0960	8.49	9.64
# 40	.0980	7/8	2 3/8	.0980	7.70	9.64
# 39	.0995	7/8	2 3/8	.0995	7.70	9.64
# 38	.1015	7/8	2 1/2	.1015	7.70	9.64
# 37	.1040	7/8	2 1/2	.1040	7.70	9.64
# 36	.1065	7/8	2 1/2	.1065	7.70	9.64
7/64	.1094	7/8	2 5/8	.1094	8.69	9.64
# 35	.1100	7/8	2 5/8	.1100	8.69	9.64
# 34	.1110	7/8	2 5/8	.1110	8.69	9.64
# 33	.1130	7/8	2 5/8	.1130	8.69	9.64
# 32	.1160	7/8	2 3/4	.1160	8.69	9.64
# 31	.1200	7/8	2 3/4	.1200	8.69	9.64
Dowel Pin*	.1230	7/8	2 3/4	.1230	8.69	9.64
Under	.1240	7/8	2 3/4	.1240	8.69	9.64
Dowel Pin*	.1247	7/8	2 3/4	.1247	7.99	9.64
1/8	.1250	7/8	2 3/4	.1250	6.97	9.17
Over	.1260	7/8	2 3/4	.1260	8.69	9.64
# 30	.1285	7/8	2 3/4	.1285	8.69	9.64
# 29	.1360	1	2 7/8	.1360	11.36	11.99
# 28	.1405	1	2 7/8	.1405	11.36	11.99
9/64	.1406	1	2 7/8	.1406	11.36	11.99
# 27	.1440	1	3	.1440	11.36	11.99
# 26	.1470	1	3	.1470	11.36	11.99
# 25	.1495	1	3	.1495	11.36	11.99
# 24	.1520	1	3 1/8	.1520	11.36	11.99
# 23	.1540	1	3 1/8	.1540	11.36	11.99
5/32	.1562	1	3 1/8	.1562	9.79	11.99
# 22	.1570	1	3 1/8	.1570	11.36	11.99
# 21	.1590	1 1/8	3 1/4	.1590	11.36	11.99
# 20	.1610	1 1/8	3 1/4	.1610	11.36	11.99
#19	.1660	1 1/8	3 1/4	.1660	11.36	11.99
# 18	.1695	1 1/8	3 1/4	.1695	11.36	11.99
11/64	.1719	1 1/8	3 1/4	.1719	10.45	11.99

*Diameter Tolerances: Dowel pin reamers made to minus tolerance. All other reamers made to a plus tolerance.

Through 1/2"	+ .0002" +.005m/m -.0000" -.000m/m	1/2" Through 5/8"	+ .0003" +.008m/m -.0000" -.000m/m	5/8" Through 1"	+ .0005" +.012m/m +.0001" +.0025m/m
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Chucking Reamers - Drill Length - High Speed Steel - Straight Shank

List No. SC533, **SC570DP*** Straight Flute

List No. SC535, **SC575DP*** Right Hand Spiral, Right Hand Cut



This series is made identical in length with the jobber series drill. This allows for interchangeability of tools and eliminates costly setup. Shorter length provides extra rigidity and strength in tough materials. In addition, this series provides cost savings.



SIZE		Flute Length	Overall Length	Shank Diameter	PRICE EACH	
Diameter	Decimal Equivalent				SC533 SC570DP* Str. Shank Str. Flute	SC535 SC575DP* Str. Shank RH Sp/Cut
# 17	.1730	1 1/8	3 3/8	.1730	10.45	11.99
# 16	.1770	1 1/8	3 3/8	.1770	10.45	11.99
# 15	.1800	1 1/8	3 3/8	.1800	11.99	12.77
# 14	.1820	1 1/8	3 3/8	.1820	11.99	12.77
# 13	.1850	1 1/8	3 1/2	.1850	11.99	12.77
<i>Dowel Pin*</i>	.1850	1 1/8	3 1/2	.1850	11.87	12.75
Under	.1865	1 1/8	3 1/2	.1865	11.99	12.77
<i>Dowel Pin*</i>	.1870	1 1/8	3 1/2	.1870	11.87	12.75
3/16	.1875	1 1/8	3 1/2	.1875	9.64	11.99
Over	.1885	1 1/8	3 1/2	.1885	11.99	12.77
# 12	.1890	1 1/8	3 1/2	.1890	11.25	11.99
# 11	.1910	1 1/4	3 1/2	.1910	12.87	14.02
# 10	.1935	1 1/4	3 5/8	.1935	12.87	14.02
# 9	.1960	1 1/4	3 5/8	.1960	12.87	14.02
# 8	.1990	1 1/4	3 5/8	.1990	12.87	14.02
# 7	.2010	1 1/4	3 5/8	.2010	12.87	14.02
13/64	.2031	1 1/4	3 5/8	.2031	12.87	14.02
# 6	.2040	1 1/4	3 3/4	.2040	12.87	14.02
# 5	.2055	1 1/4	3 3/4	.2055	12.87	14.02
# 4	.2090	1 1/4	3 3/4	.2090	12.87	14.02
# 3	.2130	1 1/4	3 3/4	.2130	12.87	14.02
7/32	.2188	1 1/4	3 3/4	.2188	12.87	14.02
# 2	.2210	1 1/4	3 7/8	.2210	12.48	14.02
# 1	.2280	1 1/2	3 7/8	.2280	12.48	14.02
A	.2340	1 1/2	3 7/8	.2340	12.48	14.02
15/64	.2344	1 1/2	3 7/8	.2344	12.48	14.02
B	.2380	1 1/2	4	.2380	13.59	14.02
C	.2420	1 1/2	4	.2420	13.59	14.02
D	.2460	1 1/2	4	.2460	13.59	14.02
<i>Dowel Pin*</i>	.2480	1 1/2	4	.2480	12.41	13.97
Under	.2490	1 1/2	4	.2490	12.65	14.02
<i>Dowel Pin*</i>	.2495	1 1/2	4	.2495	12.65	13.97
E 1/4	.2500	1 1/2	4	.2500	11.25	13.02
Over	.2510	1 1/2	4	.2510	12.65	14.02
F	.2570	1 1/2	4 1/8	.2570	13.59	14.02
G	.2610	1 1/2	4 1/8	.2610	13.59	15.33
17/64	.2656	1 1/2	4 1/8	.2656	13.59	15.33
H	.2660	1 1/2	4 1/8	.2660	15.12	15.44
I	.2720	1 1/2	4 1/8	.2720	15.12	15.44
J	.2770	1 1/2	4 1/8	.2770	15.12	15.44
K	.2810	1 1/2	4 1/8	.2810	15.12	15.44
9/32	.2812	1 1/2	4 1/4	.2812	15.12	15.44
L	.2900	1 1/2	4 1/4	.2900	15.12	15.44
M	.2950	1 1/2	4 1/4	.2950	15.12	15.44
19/64	.2969	1 1/2	4 3/8	.2969	15.12	15.44
N	.3020	1 1/2	4 3/8	.3020	15.12	15.44
<i>Dowel Pin*</i>	.3105	1 1/2	4 3/8	.3105	14.25	15.69
Under	.3115	1 1/2	4 1/2	.3115	14.39	15.44
<i>Dowel Pin*</i>	.3120	1 1/2	4 1/2	.3120	14.25	15.69
5/16	.3125	1 1/2	4 1/2	.3125	13.28	14.35
Over	.3135	1 1/2	4 1/2	.3135	14.43	15.44
O	.3160	1 1/2	4 1/2	.3160	16.15	17.21
P	.3230	1 1/2	4 5/8	.3230	16.15	17.21
21/64	.3281	1 1/2	4 5/8	.3281	16.15	17.21
Q	.3320	1 1/2	4 3/4	.3320	16.15	17.21
R	.3390	1 1/2	4 3/4	.3390	16.15	17.21

*Diameter Tolerances: Dowel pin reamers made to minus tolerance. All other reamers made to a plus tolerance.

Through 1/2"	+0.002" +.005m/m -.0000" -.000m/m	1/2" Through 5/8"	+0.003" +.008m/m -.0000" -.000m/m	5/8" Through 1"	+0.005" +.012m/m +.0001" +.0025m/m
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The Reamer Specialists





The Reamer Specialists



Chuckling Reamers - Drill Length - High Speed Steel - Straight Shank

List No. SC533, **SC570DP*** Straight Flute

List No. SC535, **SC575DP*** Right Hand Spiral, Right Hand Cut



This series is made identical in length with the jobber series drill. This allows for interchangeability of tools and eliminates costly setup. Shorter length provides extra rigidity and strength in tough materials. In addition, this series provides cost savings.

SIZE		Flute Length	Overall Length	Shank Diameter	PRICE EACH	
Diameter	Decimal Equivalent				SC533 SC570DP* Str. Shank Str. Flute	SC535 SC575DP* Str. Shank RH Sp/Cut
11/32	.3438	1 1/2	4 3/4	.3438	16.15	17.21
S	.3480	1 3/4	4 7/8	.3480	16.15	17.21
T	.3580	1 3/4	4 7/8	.3580	16.15	17.21
23/64	.3594	1 3/4	4 7/8	.3594	16.15	17.21
U	.3680	1 3/4	5	.3680	16.15	17.21
Dowel Pin*	.3730	1 3/4	5	.3730	15.59	17.21
Under	.3740	1 3/4	5	.3740	15.29	17.21
Dowel Pin*	.3745	1 3/4	5	.3745	15.59	16.89
3/8	.3750	1 3/4	5	.3750	14.39	17.21
Over	.3760	1 3/4	5	.3760	15.30	19.34
V	.3770	1 3/4	5	.3770	18.01	19.34
W	.3860	1 3/4	5 1/8	.3860	18.01	19.34
25/64	.3906	1 3/4	5 1/8	.3906	18.01	19.34
X	.3970	1 3/4	5 1/8	.3970	18.01	19.34
Y	.4040	1 3/4	5 1/4	.4040	18.44	19.34
13/32	.4062	1 3/4	5 1/4	.4062	18.44	19.34
Z	.4130	1 3/4	5 1/4	.4130	18.44	19.34
27/64	.4219	1 3/4	5 3/8	.4219	18.44	19.34
Dowel Pin*	.4355	1 3/4	5 1/2	.4355	17.69	19.34
Under	.4365	1 3/4	5 1/2	.4365	17.60	19.34
Dowel Pin*	.4370	1 3/4	5 1/2	.4370	17.69	19.34
7/16	.4375	1 3/4	5 1/2	.4375	17.09	19.06
Over	.4385	1 3/4	5 1/2	.4385	17.60	19.34
29/64	.4531	1 3/4	5 5/8	.4531	20.24	21.62
15/32	.4688	1 3/4	5 3/4	.4688	20.24	21.62
31/64	.4844	2	5 7/8	.4844	20.24	21.62
Dowel Pin*	.4980	2	5 7/8	.4980	19.72	20.63
Under	.4990	2	5 7/8	.4990	19.40	21.62
Dowel Pin*	.4995	2	6	.4995	19.72	20.63
1/2	.5000	2	6	.5000	18.54	19.65
Over	.5010	2	6	.5010	19.40	21.62

*Diameter Tolerances: Dowel pin reamers made to minus tolerance. All other reamers made to a plus tolerance.

Through 1/2"	+ .0002" + .005m/m - .0000" - .000m/m	1/2" Through 5/8"	+ .0003" + .008m/m - .0000" - .000m/m	5/8" Through 1"	+ .0005" + .012m/m + .0001" + .0025m/m
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Taper Shank Chuckling Reamers - High Speed Steel

List No. 536 Straight Flute

List No. 537 Right Hand Spiral, Right Hand Cut



These reamers are designed and applied similarly to straight shank reamers (L&I No. 533 & No. 535) except they are manufactured with Morse taper shanks.

Diameter	Decimal Equiv.	Flute Length	Overall Length	Morse Taper Number	No. of Flutes	PRICE EACH	
						536 Straight Flute	537 Spiral Flute
1/4	.2500	1 1/2	6	1	6	22.58	25.83
9/32	.2812	1 1/2	6	1	6	24.50	25.83
5/16	.3125	1 1/2	6	1	6	23.38	25.83
11/32	.2438	1 1/2	6	1	6	24.71	27.41
3/8	.3750	1 3/4	7	1	6	26.41	27.41
13/32	.4062	1 3/4	7	1	6	27.21	28.65
7/16	.4375	1 3/4	7	1	6	27.21	28.65
15/32	.4688	1 3/4	7	1	6	30.12	31.44
1/2	.5000	2	8	1	6	29.57	30.78
17/32	.5312	2	8	1	6	32.95	36.04
9/16	.5625	2	8	1	6	32.20	36.04
19/32	.5938	2	8	1	6	35.78	39.02
5/8	.6250	2 1/4	9	2	8	34.90	38.42
21/32	.6562	2 1/4	9	2	8	38.42	42.21

Taper Shank Chucking Reamers - High Speed Steel

List No. 536 Straight Flute

List No. 537 Right Hand Spiral Flute



Diameter	Decimal Equiv.	Flute Length	Overall Length	Morse Taper Number	No. of Flutes	PRICE EACH	
						536 Straight Flute	537 RH Spr, RH Cut
11/16	.6875	2 1/4	9	2	8	38.10	42.21
23/32	.7188	2 1/4	9	2	8	43.31	47.45
3/4	.7500	2 1/2	9 1/2	2	8	42.50	47.22
25/32	.7812	2 1/2	9 1/2	2	8	49.52	54.33
13/16	.8125	2 1/2	9 1/2	2	8	49.52	54.33
27/32	.8438	2 1/2	9 1/2	2	8	56.52	62.17
7/8	.8750	2 5/8	10	2	8	55.64	62.17
29/32	.9062	2 5/8	10	2	8	61.51	67.94
15/16	.9375	2 5/8	10	3	8	61.51	67.94
31/32	.9687	2 5/8	10	3	8	68.58	76.20
1	1.0000	2 3/4	10 1/2	3	8	67.94	75.60
1 1/16	1.0625	2 3/4	10 1/2	3	10	76.20	83.80
1 1/8	1.1250	2 7/8	11	3	10	82.56	92.52
1 3/16	1.1875	2 7/8	11	3	10	92.52	100.76
1 1/4	1.2500	3	11 1/2	4	10	100.15	110.68
1 5/16	1.3125	3	11 1/2	4	10	109.53	121.15
1 3/8	1.3750	3 1/4	12	4	12	118.72	131.18
1 7/16	1.4375	3 1/4	12	4	12	128.33	142.88
1 1/2	1.5000	3 1/2	12 1/2	4	12	137.11	151.78
1 3/4	1.7500	4	13 1/2	4	12	295.50	310.00
2	2.0000	4	14 1/2	4	12	367.50	385.00

Jobber Reamers - High Speed Steel

List No. 506 Taper Shank, Straight Flute



These reamers are designed for machine use in applications where long flutes are required. Jobber reamers are furnished with 45° chamfers.

SIZE		Flute Length	Overall Length	Morse Taper Number	No. of Flutes	Price Each
Diameter	Decimal Equiv.					
1/4	.2500	2	5 3/16	1	6	33.77
9/32	.2812	2	5 3/16	1	6	37.79
5/16	.3125	2 1/4	5 1/2	1	6	38.45
11/32	.3438	2 1/4	5 1/2	1	6	39.04
3/8	.3750	2 1/2	5 13/16	1	6	41.40
13/32	.4062	2 1/2	5 13/16	1	6	41.40
7/16	.4375	2 3/4	6 1/8	1	6	44.42
15/32	.4688	2 3/4	6 1/8	1	6	46.20
1/2	.5000	3	6 7/16	1	6	47.97
17/32	.5312	3	6 7/16	1	6	51.11
9/16	.5625	3 1/4	6 3/4	1	6	54.23
19/32	.5938	3 1/4	6 3/4	1	6	54.23
5/8	.6250	3 1/2	7 9/16	2	8	56.62
21/32	.6562	3 1/2	7 9/16	2	8	56.62
11/16	.6875	3 7/8	8	2	8	63.21
23/32	.7188	3 7/8	8	2	8	63.21
3/4	.7500	4 3/16	8 3/8	2	8	65.98
13/16	.8125	4 9/16	8 13/16	2	8	74.22
7/8	.8750	4 7/8	9 3/16	2	8	82.80
15/16	.9375	5 1/8	10	3	8	91.05
1	1.0000	5 7/16	10 3/8	3	8	99.73
1 1/16	1.0625	5 5/8	10 5/8	3	10	108.95
1 1/8	1.1250	5 13/16	10 7/8	3	10	119.24
1 3/16	1.1875	6	11 1/8	3	10	134.00
1 1/4	1.2500	6 1/8	12 9/16	4	10	144.87
1 5/16	1.3125	6 1/4	12 11/16	4	10	157.24
1 3/8	1.3750	6 5/16	12 13/16	4	12	169.93
1 7/16	1.4375	6 7/16	13	4	12	185.22
1 1/2	1.5000	6 1/2	13 1/8	4	12	201.01

The Reamer Specialists





Hand Reamers - High Speed Steel - Straight Shank

List No. 500 Straight Flute

List No. 503 Left Hand Spiral, Right Hand Cut



These reamers are used for the final sizing of holes. The starting taper provides easy entry of the reamer into the holes. They are generally driven by a tap wrench or vise depending upon whether the work or the reamer is rotating.

SIZE		Flute Length	Overall Length	PRICE EACH	
Diameter	Decimal Equivalent			500 Str. Shank Str. Flute	503 Str. Shank Sp. Flute
1/16	.0625	1	2	27.53	32.17
5/64	.0781	1	2	27.53	32.18
3/32	.0938	1 1/4	2 1/2	27.53	32.18
7/64	.1094	1 1/4	2 1/2	27.53	32.18
1/8	.1250	1 1/2	3	25.91	32.18
9/64	.1406	1 5/8	3 1/4	25.91	32.18
5/32	.1562	1 5/8	3 1/4	28.15	34.52
11/64	.1719	1 3/4	3 1/2	28.15	34.52
3/16	.1875	1 3/4	3 1/2	27.53	34.52
13/64	.2031	1 7/8	3 3/4	27.53	34.52
7/32	.2188	1 7/8	3 3/4	30.35	36.95
15/64	.2344	2	4	30.35	36.95
1/4	.2500	2	4	30.35	33.33
17/64	.2656	2 1/8	4 1/4	30.35	36.94
9/32	.2812	2 1/8	4 1/4	30.14	36.73
19/64	.2969	2 1/4	4 1/2	32.55	40.05
5/16	.3125	2 1/4	4 1/2	31.98	36.75
11/32	.3438	2 3/8	4 3/4	37.02	41.21
3/8	.3750	2 1/2	5	36.16	41.21
13/32	.4062	2 5/8	5 1/4	41.21	45.70
7/16	.4375	2 3/4	5 1/2	41.03	45.70
15/32	.4688	2 7/8	5 3/4	45.43	50.52
1/2	.5000	3	6	43.73	49.18
17/32	.5312	3 1/8	6 1/4	57.26	57.26
9/16	.5625	3 1/4	6 1/2	50.20	57.56
19/32	.5938	3 3/8	6 3/4	55.79	62.63
5/8	.6250	3 1/2	7	54.08	61.51
21/32	.6562	3 11/16	7 3/8	60.61	67.41
11/16	.6875	3 7/8	7 3/4	59.41	67.22
23/32	.7188	4 1/16	8 1/8	65.05	72.50
3/4	.7500	4 3/16	8 3/8	63.40	74.84
25/32	.7812	4 3/8	8 3/4	67.85	77.26
13/16	.8125	4 9/16	9 1/8	72.31	77.26
27/32	.8438	4 11/16	9 3/8	75.09	84.45
7/8	.8750	4 7/8	9 3/4	76.79	84.58
29/32	.9062	5	10	80.84	94.29
15/16	.9375	5 1/8	10 1/4	76.79	94.29
31/32	.9687	5 5/16	10 5/8	88.92	103.78
1	1.0000	5 7/16	10 7/8	93.00	103.78
1 1/16	1.0625	5 5/8	11 1/4	109.73	126.18
1 1/8	1.1250	5 13/16	11 5/8	115.48	126.93
1 3/16	1.1875	6	12	135.06	155.04
1 1/4	1.2500	6 1/8	12 1/4	141.78	156.18
1 5/16	1.3125	6 1/4	12 1/2	162.42	181.92
1 3/8	1.3750	6 5/16	12 5/8	167.59	184.29
1 7/16	1.4375	6 7/16	12 7/8	183.46	210.96
1 1/2	1.5000	6 1/2	13	197.81	218.25

The Reamer Specialists



Metric Hand Reamers - High Speed Steel

List No. 500 Straight Shank, Straight Flute



Metric Size	Decimal Equivalent	Flute Length	Overall Length	Price Each
3.00	.1181	1 7/32	2 7/16	43.70
3.20	.1260	1 1/4	2 1/2	43.70
3.50	.1378	1 3/8	2 3/4	43.70
4.00	.1575	1 1/2	3	43.70
4.50	.1772	1 5/8	3 1/4	43.70
5.00	.1969	1 3/4	3 1/2	46.20
5.50	.2165	1 13/16	3 5/8	46.20
6.00	.2362	1 13/16	3 5/8	46.20
7.00	.2756	2 1/8	4 1/4	49.50
8.00	.3150	2 1/4	4 1/2	57.85
9.00	.3543	2 7/16	4 7/8	57.85
10.00	.3937	2 5/8	5 1/4	62.80
11.00	.4331	2 3/4	5 1/2	62.80
12.00	.4724	3	6	69.50
13.00	.5118	3	6	76.75
14.00	.5512	3 1/4	6 1/2	76.75
15.00	.5906	3 1/4	6 1/2	87.95
16.00	.6299	3 1/2	6 7/8	96.30
17.00	.6693	3 3/8	6 3/4	96.30
18.00	.7087	3 11/16	7 1/2	102.20
19.00	.7480	3 3/4	7 1/2	117.65
20.00	.7874	4	8	117.65

Expansion Hand Reamers - High Speed Steel

List No. 2001 Straight Flute

List No. 2011 Left Hand Spiral, Right Hand Cut



These reamers are used to enlarge holes by a few thousandths. The pilots and guides of these reamers are ground under size to allow smooth entrance. The spiral flute style is especially suited for use in holes where the cut is interrupted by a longitudinal slot or keyway.

Size		Flute Length	Overall Length	Shank Diameter	No. of Flutes	PRICE EACH	
Diameter	Decimal Equiv.					2001 Straight Flute	2011 LH Spiral RH Cut
1/4	.2500	1 7/16	4 1/4	.2450	6	85.00	89.25
5/16	.3125	1 3/4	4 1/2	.3075	6	87.00	91.98
3/8	.3750	1 3/4	5	.3700	6	99.50	103.95
13/32	.4062	1 3/4	5	.4010	6	102.30	107.40
7/16	.4375	1 3/4	5	.4325	6	103.95	109.15
15/32	.4688	1 13/16	5 1/2	.4640	6	105.45	110.72
1/2	.5000	1 13/16	5 1/2	.4950	6	104.40	109.62
17/32	.5313	2 1/8	6	.5260	6	110.70	116.24
9/16	.5625	2 1/8	6	.5575	6	114.00	119.70
5/8	.6250	2 1/2	6 1/2	.6200	8	123.50	129.15
11/16	.6875	2 1/2	6 3/4	.6825	8	141.00	148.05
3/4	.7500	2 11/16	7 1/16	.7450	8	156.00	163.80
13/16	.8125	3 1/16	7 9/16	.8075	8	175.50	184.28
7/8	.8750	3 5/16	8	.8700	8	189.00	198.45
15/16	.9375	3 9/16	8 3/8	.9375	8	216.00	226.80
1	1.0000	3 3/4	8 7/8	.9950	8	230.00	241.50
1 1/16	1.0625	4	9 3/16	1.0600	10	240.00	252.00
1 1/8	1.1250	4 1/8	9 1/2	1.1200	10	260.00	273.00
1 3/16	1.1875	4 1/4	9 7/8	1.2450	10	265.00	278.25
1 1/4	1.2500	4 3/8	10 1/4	1.3700	10	272.00	285.60
1 5/16	1.3125	4 1/2	10 5/8	1.4950	10	285.00	299.25
1 3/8	1.3750	4 9/16	11	1.3730	10	310.00	325.50
1 7/16	1.4375	4 3/4	11 3/8	1.4350	12	340.00	357.00
1 1/2	1.5000	4 13/16	11 5/8	1.4980	12	390.00	409.50
1 9/16	1.5625	4 13/16	11 7/8	1.5600	12	411.00	431.55
1 5/8	1.6250	4 7/8	12	1.6230	12	422.00	443.10
1 3/4	1.7500	5	12 3/8	1.6850	12	486.00	510.30
1 7/8	1.8750	5	12 3/4	1.7480	14	530.00	556.50
2	2.0000	5	13 1/16	1.9980	14	620.00	651.00



The Reamer Specialists





Expansion Chucking Reamers - High Speed Steel

List No. 531 Straight Shank, Straight Flute

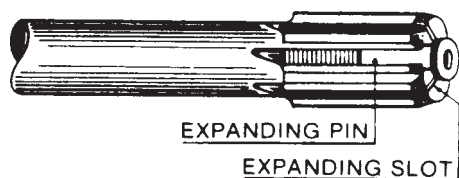
List No. 532 Taper Shank, Straight Flute



This is an economical high-production reamer. The expansion feature permits this reamer to be resharpened many times to its original diameter, therefore saving on replacement costs.

SIZE		Flute Length	Overall Length	List 531 Shank Dia.	List 532 Morse Taper No.	PRICE EACH	
Dia.	Decimal Equiv.					531 Straight Shank	532 Taper Shank
3/8	.3750	3/4	7	.3105	1	64.40	71.58
13/32	.4062	3/4	7	.3105	1	68.47	75.93
7/16	.4375	7/8	7	.3730	1	68.47	75.93
15/32	.4688	7/8	7	.3730	1	70.01	77.71
1/2	.5000	1	8	.4355	1	71.23	81.44
17/32	.5312	1	8	.4355	1	74.19	84.25
9/16	.5625	1 1/8	8	.4355	1	74.72	87.14
19/32	.5938	1 1/8	8	.4355	1	75.84	80.96
5/8	.6250	1 1/4	9	.5620	2	78.11	92.83
21/32	.6562	1 1/4	9	.5620	2	81.08	94.08
11/16	.6875	1 1/4	9	.5620	2	81.74	98.08
23/32	.7188	1 1/4	9	.5620	2	87.96	98.13
3/4	.7500	1 3/8	9 1/2	.6245	2	89.92	103.43
25/32	.7812	1 3/8	9 1/2	.6245	2	95.13	107.21
13/16	.8125	1 3/8	9 1/2	.6245	2	98.74	110.89
27/32	.8438	1 3/8	9 1/2	.6245	2	103.95	114.72
7/8	.8750	1 1/2	10	.7495	2	106.88	118.43
29/32	.9062	1 1/2	10	.7495	2	111.39	122.34
15/16	.9375	1 1/2	10	.7495	3	116.54	126.12
31/32	.9688	1 1/2	10	.7495	3	121.75	127.32
1	1.0000	1 5/8	10 1/2	.8745	3	129.36	129.50
1 1/32	1.0312	1 5/8	10 1/2	.8745	3	131.41	137.19
1 1/16	1.0625	1 5/8	10 1/2	.8745	3	135.82	144.87
1 3/32	1.0938	1 5/8	10 1/2	.8745	3	148.44	152.48
1 1/8	1.1250	1 3/4	11	.8745	3	155.00	160.25
1 5/32	1.1562	1 3/4	11	.8745	3	157.08	167.78
1 3/16	1.1875	1 3/4	11	.9995	3	163.18	175.35
1 7/32	1.2188	1 3/4	11	.9995	3	169.06	183.05
1 1/4	1.2500	1 7/8	11 1/2	.9995	4	175.78	190.67
1 5/16	1.3125	1 7/8	11 1/2	.9995	4	181.62	198.36
1 3/8	1.3750	2	12	.9995	4	188.26	206.03
1 7/16	1.4375	2	12	1.2495	4	195.66	215.04
1 1/2	1.5000	2 1/8	12 1/2	1.2495	4	203.86	222.37

The Reamer Specialists



Available in
64th sizes.
Please inquire.

Taper Pipe Reamers - High Speed Steel

List No. 601 Straight Flute

List No. 600 Left Hand Spiral Flute



Taper Pipe Reamers are for reaming holes to be tapped with taper pipe taps. They are tapered 3/4" to the foot.

Size	Diameter		Flute Length	Overall Length	Shank Diameter	PRICE EACH	
	Small End	Large End				601 - Str Flute	600 - Sp Flute
1/16	.2450	.2910	3/4	2	.3125	59.00	59.00
1/8	.3160	.3620	3/4	2 1/8	.4375	41.50	48.00
1/4	.4060	.4720	1 1/16	2 7/16	.5625	47.00	55.00
3/8	.5400	.6060	1 1/16	2 9/16	.7000	53.40	62.80
1/2	.6650	.7510	1 3/8	3 1/8	.6875	67.50	79.25
3/4	.8760	.9620	1 3/8	3 1/4	.9063	71.50	110.00
1	1.1030	1.2120	1 3/4	3 3/4	1.1250	133.45	156.85
1 1/4	1.4440	1.5530	1 3/4	4	1.3125	200.60	235.90
1 1/2	1.6840	1.7930	1 3/4	4 1/4	1.5000	253.30	298.00
2	2.1590	2.2680	1 3/4	4 1/2	1.8750	338.00	398.00
2 1/2	2.5610	2.7220	2 5/8	5 1/2	2.2050	607.50	675.00
3	3.3020	3.3800	2 3/4	6	2.6250	796.00	885.00

Taper Pipe Taps - High Speed Steel - Ground Thread

List No. 790U NPT



Taper pipe taps are utilized to thread pipe fittings, hence their nominal size is of the pipe being threaded.

Size	Threads Per Inch	Price Each	Size	Threads Per Inch	Price Each
1/16	27	27.70	1	11 1/2	135.80
1/8	27	27.70	1 1/4	11 1/2	195.00
1/4	18	30.60	1 1/2	11 1/2	261.00
3/8	18	40.40	2	11 1/2	354.25
1/2	14	64.00	2 1/2	8	745.00
3/4	14	89.65	3	8	1050.00

Taper Pipe Taps - Carbon - Cut Thread

List No. 793U Right Hand, NPT



Taper pipe taps are utilized to thread pipe fittings, hence their nominal size is of the pipe being threaded.

Size	Threads Per Inch	Price Each	Size	Threads Per Inch	Price Each
1/16	27	10.97	3/4	14	35.63
1/8	27	10.97	1	11 1/2	52.51
1/4	18	12.94	1 1/4	11 1/2	61.95
3/8	18	16.75	1 1/2	11 1/2	87.46
1/2	14	22.24	2	11 1/2	133.93

Taper Pipe Taps - High Speed Steel - Interrupted Thread

List No. 792U INT/NPT

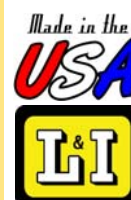


These tools are used for tapping tough or gummy metals that have a tendency to load the tap teeth.

Size	Threads Per Inch	Price Each	Size	Threads Per Inch	Price Each
1/16	27	43.00	3/4	14	135.74
1/8	27	43.00	1	11 1/2	209.80
1/4	18	47.70	1 1/4	11 1/2	295.00
3/8	18	60.19	1 1/2	11 1/2	396.29
1/2	14	96.00	2	11 1/2	533.29



The Reamer Specialists





The Reamer Specialists

Shell Reamers - High Speed Steel

List No. 521 Straight Flute
List No. 516 Left Hand Spiral, Right Hand Cut



Shell reamers are machine reamers manufactured in high speed steel. Fluted almost their entire length, they have a tapered hole (1/8" taper per foot) which fits on a tapered arbor. The slots in the reamer engage lugs on the arbor, providing ample strength of drive. Large diameters and special sizes are available upon request.

SIZE		Flute Length	Overall Length	Dia. Hole Lg. End	Fitting Arbor Number	No. of Flutes	PRICE EACH	
Dia.	Decimal Equiv.						521 Str. Flt.	516 LH Sp. RH Cut
3/4	.7500	1 1/2	2 1/4	3/8	4	10	64.23	78.46
13/16	.8125	1 3/4	2 1/2	1/2	5	10	66.49	79.50
7/8	.8750	1 3/4	2 1/2	1/2	5	10	71.34	81.51
15/16	.9375	1 3/4	2 1/2	1/2	5	10	74.68	83.50
1	1.0000	1 3/4	2 1/2	1/2	5	10	79.15	89.55
1 1/16	1.0625	2	2 3/4	5/8	6	10	85.82	96.13
1 1/8	1.1250	2	2 3/4	5/8	6	10	91.11	100.28
1 3/16	1.1875	2	2 3/4	5/8	6	12	94.14	103.75
1 1/4	1.2500	2	2 3/4	5/8	6	12	95.52	108.27
1 5/16	1.3125	2 1/4	3	3/4	7	12	101.40	112.84
1 3/8	1.3750	2 1/4	3	3/4	7	12	107.90	118.72
1 7/16	1.4375	2 1/4	3	3/4	7	12	118.62	130.97
1 1/2	1.5000	2 1/4	3	3/4	7	12	125.72	138.27
1 9/16	1.5625	2 1/4	3	3/4	7	12	141.44	154.99
1 5/8	1.6250	2 1/4	3	3/4	7	12	150.56	169.05
1 11/16	1.6875	2 1/2	3 1/2	1	8	12	165.55	185.07
1 3/4	1.7500	2 1/2	3 1/2	1	8	12	175.26	196.40
1 13/16	1.8125	2 1/2	3 1/2	1	8	12	187.06	210.45
1 7/8	1.8750	2 1/2	3 1/2	1	8	12	199.45	223.17
1 15/16	1.9375	2 1/2	3 1/2	1	8	14	211.90	237.88
2	2.0000	2 1/2	3 1/2	1	8	14	219.73	244.47
2 1/16	2.0625	2 3/4	3 3/4	1 1/4	9	14	237.54	267.17
2 1/8	2.1250	2 3/4	3 3/4	1 1/4	9	14	249.35	279.96
2 3/16	2.1875	2 3/4	3 3/4	1 1/4	9	14	265.00	298.07
2 1/4	2.2500	2 3/4	3 3/4	1 1/4	9	14	274.18	307.40
2 5/16	2.3125	2 3/4	3 3/4	1 1/4	9	14	289.68	325.51
2 3/8	2.3750	2 3/4	3 3/4	1 1/4	9	14	301.71	338.82
2 7/16	2.4375	2 3/4	3 3/4	1 1/4	9	14	311.34	352.36
2 1/2	2.5000	2 3/4	3 3/4	1 1/4	9	14	322.51	362.05

Shell Reamer Arbors



Used to hold shell reamers, the tapered body is machined at 1/8" per foot to accommodate standard shell reamers.

List No. 135 Straight Shank

No.	Fitting Size Inches	Overall Length	Shank Length	Shank Dia.	Price Each
4	21/32 - 25/32	9	6 5/32	1/2	80.04
5	13/16 - 1 1/32	9 1/2	6 11/32	5/8	88.66
6	1 1/16 - 1 9/32	10	6 15/32	3/4	97.89
7	1 5/16 - 1 21/32	11	7 5/32	7/8	106.96
8	1 11/16 - 2	12	7 17/32	1 1/8	118.90
9	2 1/16 - 2 1/2	13	8 9/32	1 3/8	133.82
10	2 9/16 - 3	14	8 29/32	1 5/8	156.48

List No. 140 Morse Taper Shank

No.	Fitting Size Inches	Overall Length	Morse Taper No.	Price Each
4	21/32 - 25/32	9	2	90.69
5	13/16 - 1 1/32	9 1/2	2	107.04
6	1 1/16 - 1 9/32	10	3	116.27
7	1 5/16 - 1 21/32	11	3	126.78
8	1 11/16 - 2	12	4	142.08
9	2 1/16 - 2 1/2	13	4	159.47
10	2 9/16 - 3	14	5	187.08



Taper Pin Reamers - High Speed Steel

List No. 587 Straight Shank, Straight Flute

List No. 591 Straight Shank, Left Hand Spiral, Right Hand Cut

List No. 588 Straight Shank, Helical Flutes



These are for machine reaming of holes for taper pins. Series 588 has a high helix flute design that eases chip ejection.

Size	Diameter		Flt Length	Overall Length	Str Shnk Dia.	PRICE EACH		
	Small End	Large End				587 Straight Flute	591 LH Spiral RH Cut	588 Helical Flutes
9/0	.0250	.0400	11/16	1 5/8	.0400	35.00	37.00	28.73
8/0	.0351	.0514	25/32	1 5/8	1/16	35.00	37.00	27.25
7/0	.0497	.0666	13/16	1 13/16	5/64	28.71	30.00	26.91
6/0	.0611	.0806	15/16	1 15/16	3/32	28.71	30.00	25.03
5/0	.0719	.0966	1 3/16	2 3/16	7/64	26.25	28.71	25.99
4/0	.0869	.1142	1 5/16	2 5/16	1/8	26.25	28.71	25.99
3/0	.1029	.1302	1 5/16	2 5/16	9/64	26.25	28.71	23.44
2/0	.1137	.1462	1 9/16	2 9/16	5/32	23.44	25.03	23.80
0	.1287	.1638	1 11/16	2 15/16	11/64	22.52	24.11	24.38
1	.1447	.1798	1 11/16	2 15/16	3/16	21.96	24.45	24.68
2	.1605	.2008	1 15/16	3 3/16	13/64	21.96	24.57	28.14
3	.1813	.2294	2 5/16	3 11/16	15/64	21.96	24.57	29.03
4	.2071	.2604	2 9/16	4 1/16	17/64	24.43	26.58	35.28
5	.2409	.2994	2 13/16	4 5/16	5/16	26.25	28.44	37.77
6	.2773	.3540	3 11/16	5 7/16	23/64	31.53	34.95	44.38
7	.2397	.4220	4 7/16	6 5/16	13/32	40.60	44.02	53.33
8	.3971	.5050	5 3/16	7 3/16	7/16	51.84	56.86	61.35
9	.4805	.6066	6 1/16	8 5/16	9/16	63.03	68.70	66.28
10	.5799	.7216	6 13/16	9 5/16	5/8	69.31	76.13	88.01
11	.7060	.8780	8 1/4	11 1/4	11/16	204.00	238.00	265.00
12	.8420	1.0500	10	13 5/8	3/4	280.00	289.00	315.00
13	1.0090	1.2590	12	16	1 1/16	446.00	476.00	586.00
14	1.2500	1.5420	14	18 1/4	1 3/8	665.00	704.00	779.00

Three-Flute Countersink Center Reamers - High Speed Steel and Cobalt

List No. 480 60° Point Angle, High Speed Steel

List No. 481 82° Point Angle, High Speed Steel

List No. 482 90° Point Angle, High Speed Steel

List No. 483 100° Point Angle, High Speed Steel

List No. 484 120° Point Angle, High Speed Steel

List No. 481C 82° Point Angle, Cobalt



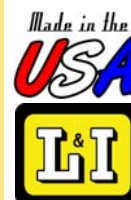
Engineered to give chatter-free performance, they are comparatively free-cutting and should be operated at low speeds.

Size	Shank Dia.	Overall Length	PRICE EACH	
			High Speed Steel	Cobalt
1/4	3/16	1 1/2	11.00	19.80
3/8	1/4	1 3/4	13.10	23.58
1/2	3/8	2	16.50	29.70
5/8	3/8	2 1/4	24.50	44.10
3/4	1/2	2 5/8	32.10	57.78
1	1/2	2 3/4	51.68	93.02
1 1/4	1/2	3	86.65	155.97
1 1/2	3/4	3	111.80	201.24
2	3/4	3 1/4	197.60	355.68

High Speed Steel Sets		Cobalt Sets	
5 PIECE SETS Contains 1 Piece of Each: 1/4, 3/8, 1/2, 5/8, 3/4 60° - SET NO. 480S5 82° - SET NO. 481S5 90° - SET NO. 482S5 Supplied in Wood Block SET PRICE - \$97.20		9 PIECE SET Contains 1 Piece of Each: 1/4, 3/8, 1/2, 5/8, 3/4, 1, 1 1/4, 1 1/2, 2 60° - SET NO. 480S9 82° - SET NO. 481S9 90° - SET NO. 482S9 Supplied in Wood Block SET PRICE - \$545.10	
5 PIECE SET Contains 1 Piece of Each: 1/4, 3/8, 1/2, 5/8, 3/4 82° - SET NO. 481CS5 Supplied in Wood Block SET PRICE - \$175.00		9 PIECE SET Contains 1 Piece of Each: 1/4, 3/8, 1/2, 5/8, 3/4, 1, 1 1/4, 1 1/2, 2 82° - SET NO. 481CS9 Supplied in Wood Block SET PRICE - \$980.91	



The Reamer Specialists





The Reamer Specialists



Bridge Reamers - High Speed Steel Taper Shank, Long Body

List No. 579

Spiral Flute

List No. 584

Straight Flute



Structural reamers are used extensively in ship and bridge building and boiler manufacture where steel plates and shapes have punched or drilled holes that are undersize and rough and where it is necessary to ream holes in assemblies to obtain proper alignment and size for accepting rivets, bolts, etc.

Size	Approx. Point Size	Flute Length	Overall Length	Morse Taper #	PRICE EACH	
					579 Spiral Flute	584 Straight Flute
7/16	1/4	4 3/8	8 1/4	2	45.96	54.83
1/2	9/32	5 1/8	9	2	48.74	54.10
9/16	11/32	5 1/8	9	2	50.89	54.83
5/8	3/8	6 1/8	10	2	57.61	63.40
11/16	25/64	7 1/8	11 3/4	3	69.17	74.60
3/4	7/16	7 3/8	12	3	75.48	76.16
13/16	1/2	7 3/8	12	3	78.07	77.93
7/8	9/16	7 3/8	12	3	90.34	91.15
15/16	5/8	7 3/8	12	3	89.01	88.45
1	11/16	7 3/8	12	3	94.25	102.73
1 1/16	3/4	7 3/8	12	3	103.53	103.53
1 1/8	13/16	7 3/8	12	3	116.38	127.32
1 3/16	7/8	7 3/8	12	3	129.12	129.12
1 1/4	15/16	7 3/8	13	4	142.53	X
1 5/16	1	7 3/8	13	4	163.54	X
1 3/8	1 1/8	7 3/8	13	4	177.94	197.52
1 7/16	1 3/16	7 3/8	13	4	192.32	211.27
1 1/2	1 1/4	7 3/8	13	4	221.09	238.76
1 9/16	1 3/8	7 3/8	13	4	390.00	X
1 5/8	1 3/8	7 3/8	13	4	399.00	405.00
1 3/4	1 11/16	7 3/8	13	5	450.00	X
1 7/8	1 11/16	7 3/8	13	5	475.00	X
2	1 11/16	7 3/8	13	5	499.00	X

We Can Furnish Line Reamers!

See page 30 for special reamer quote form.



Morse Taper High Speed Steel Finishing Reamer Set

Set

5 PIECE SET
Contains 1 Piece of Each:
1-5, Straight Shank
Taper Hand Reamers

SET NO. 60

Supplied in Wood Box

SET PRICE - \$895.00

Brown & Sharpe High Speed Steel Taper Reamer Set

Set

5 PIECE SET
Contains 1 Piece of Each:
1-5, Straight Shank
Brown & Sharpe Reamers

SET NO. 61

SET PRICE - \$307.65



Car Reamers - High Speed Steel Taper Shank, Short Body

List No. 583 Straight Flute
List No. 586 Spiral Flute



Car reamers are specially designed for the reaming of structural steel plate commonly found in railroad car, truck frame, bridge building repair, and pressure vessel manufacturing. These reamers are used on previously formed holes in steel plate which are under size and rough, and where it is necessary to ream holes in assemblies to obtain proper alignment and size for accepting rivets, bolts, etc.

Size	Approx. Point Size	Flute Length	Overall Length	Morse Taper #	PRICE EACH	
					586 Spiral Flute	583 Straight Flute
5/16	11/64	2 3/4	5 11/16	1	37.13	X
3/8	15/64	2 3/4	5 11/16	1	37.80	X
11/32	15/64	2 3/4	5 11/16	1	37.50	X
7/16	1/4	3 1/2	6 15/16	2	44.31	X
15/32	9/32	3 1/2	7 1/16	2	45.03	X
1/2	19/64	4	7 9/16	2	45.80	X
9/16	9/32	4	7 9/16	2	48.66	70.00
5/8	5/16	4 1/2	8 1/16	2	53.11	X
11/16	3/8	4 1/2	8 13/16	3	58.78	85.37
3/4	13/32	5	9 1/2	3	65.11	100.99
13/16	15/32	5	9 1/2	3	67.22	102.95
15/16	19/32	5	9 1/2	3	71.82	112.00

Morse Taper Finishing Reamers - High Speed Steel

Straight Flute

List No. 551 Straight Shank
List No. 557 Taper Shank



This tool is used for accurate reaming of Morse Taper holes in sockets, sleeves and spindles.

No. of Taper	Diameter		Flute Length	Straight Shank Diameter	PRICE EACH	
	Small End	Large End			551 Straight Shank	557 Taper Shank
0	.2503	.3674	2 1/4	5/16	45.50	61.98
1	.3674	.5170	3	7/16	58.56	69.68
2	.5696	.7444	3 1/2	5/8	69.17	84.33
3	.7748	.9881	4 1/4	7/8	91.73	116.58
4	1.0167	1.2893	5 1/4	1 1/4	135.83	183.98
5	1.4717	1.8005	6 1/4	1 1/2	258.58	362.66
6	2.1120	2.5550	8 1/2	2	830.00	850.00

Brown & Sharpe Taper Reamers - High Speed Steel

List No. 596 Finishing, Straight Shank,
Straight Flute



These reamers are used for final finishing of Brown & Sharpe standard taper holes, and also used for removing nicks or burrs in machine spindles.

Size	Diameter		Flute Length	Straight Shank Diameter	Overall Length	Price Each
	Small End	Large End				
1	.1974	.3176	2 7/8	9/32	4 3/4	51.66
2	.2474	.3781	3 1/8	11/32	5 1/8	57.95
3	.3099	.4510	3 3/8	13/32	5 1/2	61.29
4	.3474	.5017	3 11/16	7/16	5 7/8	64.25
5	.4474	.6145	4	9/16	6 3/8	72.50
6	.4974	.6808	4 3/8	5/8	6 7/8	76.32
7	.5974	.8011	4 7/8	3/4	7 1/2	83.02
8	.7474	.9770	5 1/2	13/16	8 1/8	110.11
9	.8974	1.1530	6 1/8	1	8 7/8	140.03
10	1.0420	1.3376	6 7/8	1 1/8	9 3/4	184.07



The Reamer Specialists





The Reamer Specialists



Aligning Reamers - High Speed Steel

1/2" Straight Shank with 3 Equal Flats to Fit 1/2" Chucks

List No. 581 Spiral Flute



Used to align existing holes prior to rivet or bolt installation, the point is tapered to allow entry into overlapping holes. These reamers are also useful in portable reaming.

Size	Flute Length	Overall Length	Shank Diameter	Price Each
1/4*	2 1/2	4 3/8	1/4*	42.46
5/16	2 3/4	4 5/8	5/16	42.46
3/8	2 3/4	4 5/8	3/8	42.46
7/16	3 1/2	5 3/8	7/16	44.00
1/2	4	5 7/8	1/2	44.00
9/16	4	5 7/8	1/2	49.00
5/8	4 1/2	6 3/8	1/2	51.00
11/16	4 1/2	6 3/8	1/2	56.75
3/4	5	6 7/8	1/2	67.95
13/16	5	6 7/8	1/2	68.50
7/8	5	6 7/8	1/2	73.50
15/16	5	6 7/8	1/2	76.90
1	5	6 7/8	1/2	89.90
1 1/16	5	6 7/8	1/2	105.00

*No flats on shank

Aligning Reamers - Hex Shank Style - High Speed Steel

List No. 582



For portable pneumatic tools, the short length permits use in limited-access areas. The shank diameter for each reamer matches socket size for the bolt which will be driven through the newly reamed hole.

Size	Flute Length	Overall Length	Hex Shank Diameter	Price Each
11/16	4 1/2	6 1/2	1 1/16	71.00
13/16	5	7	1 1/4	86.50
15/16	5	7	1 7/16	96.00
1 1/16	5	7	1 5/8	129.00

Solid Pilot Counterbores - Socket Cap Screw - High Speed Steel

List No. 508U Three Flute, Straight Shank



Solid Pilot Counterbores are .001 - .002 undersize for ease of entry.

Screw Size	Pilot Diameter	Cutting Diameter	Shank Diameter	Overall Length	Price Each
No.5	.1410	.2210	3/16	3	19.50
No.6	.1500	.2420	7/32	3	19.50
No.8	11/64	19/64	1/4	3	19.50
No.10	13/64	21/64	5/16	3 1/2	20.64
1/4	9/32	13/32	3/8	3	23.50
5/16	11/32	1/2	7/16	5	25.65
3/8	13/32	19/32	1/2	6	29.30
7/16	15/32	11/16	1/2	7	35.02
1/2	17/32	25/32	1/2	7 1/2	39.90
5/8	21/32	31/32	3/4	7 1/2	57.37
3/4	13/16	1 3/16	1	8	81.22
7/8	15/16	1 3/8	1	8	122.11
1	1 1/16	1 9/16	1	10	158.47

Adjustable Hand Reamers

List No. 571

Blades are adjusted by loosening one nut and tightening the other. Each reamer expands to the next size.



Size	Range of Adjust.	Blade Length	Overall Length	Price Each	Size	Range of Adjust.	Blade Length	Overall Length	Price Each
8/A	1/4 - 9/32	1 11/32	3 1/4	58.92	E	23/32 - 25/32	2 1/2	7	81.92
7/A	9/32 - 5/16	1 11/32	3 1/2	58.92	F	25/32 - 27/32	2 5/8	7 3/8	84.55
6/A	5/16 - 11/32	1 1/2	4 1/8	58.92	G	27/32 - 15/16	3	8	88.76
5/A	11/32 - 3/8	1 1/2	4 3/8	58.92	H	15/16 - 1 1/16	3 1/4	9	93.64
4/A	3/8 - 13/32	1 1/2	4 3/4	60.90	I	1 1/16 - 1 3/16	3 3/8	10	114.35
3/A	13/32 - 7/16	1 1/2	5	67.40	J	1 3/16 - 1 11/32	3 7/8	11	135.40
2/A	7/16 - 15/32	1 5/8	5 1/4	67.40	K	1 11/32 - 1 1/2	4 1/4	12	175.88
A	15/32 - 17/32	1 5/8	5 1/2	71.44	L	1 1/2 - 1 13/16	4 7/16	14	214.40
B	17/32 - 19/32	1 13/16	5 3/4	71.44	M	1 13/16 - 2 7/32	5	16	272.17
C	19/32 - 21/32	2 1/16	6 1/2	74.33	N	2 7/32 - 2 3/4	4 13/16	18	479.38
D	21/32 - 23/32	2 3/16	6 3/4	77.81	O	2 3/4 - 3 11/32	5 3/16	20	659.20

Stub Screw Machine Reamers - High Speed Steel

List No. 534 Spiral Flute



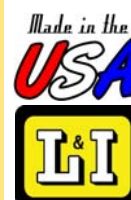
These short machine reamers are designed particularly for use in screw machine work. They are finished with approximately 7° left hand spiral, right hand cut. Pin holes through the shank allows them to be used in pin drive floating holders.

Series No.	Finished Diameter Range	QUANTITY ORDERED										
		1	2	3	6	12	24	36	50	75	100	150
00	.0600 - .0660	60.42	36.87	29.06	21.21	17.28	15.30	14.64	14.29	14.02	13.89	13.85
0	.0661 - .0740	60.42	36.87	29.06	21.21	17.28	15.30	14.64	14.29	14.02	13.89	13.85
1	.0741 - .0840	60.42	36.87	29.06	21.21	17.28	15.30	14.64	14.29	14.02	13.89	13.85
2	.0841 - .0960	60.42	36.87	29.06	21.21	17.28	15.30	14.64	14.29	14.02	13.89	13.85
3	.0961 - .1260	69.14	41.71	33.48	23.34	18.08	15.21	14.41	14.27	14.12	14.02	13.87
4	.1261 - .1580	69.14	41.71	33.48	23.34	18.08	15.21	14.41	14.27	14.12	14.02	13.87
5	.1581 - .1880	69.14	41.71	33.48	23.34	18.08	15.21	14.41	14.27	14.12	14.02	13.87
6	.1881 - .2190	58.73	41.71	33.48	23.34	17.57	15.21	14.27	14.12	14.02	13.87	13.71
7	.2191 - .2510	58.73	41.71	33.48	23.34	17.57	15.21	14.27	14.12	14.02	13.87	13.71
8	.2511 - .2820	59.81	43.34	33.77	24.98	19.38	16.87	15.92	14.68	14.55	14.41	14.27
9	.2821 - .3130	59.81	43.34	33.77	24.98	19.38	16.87	15.92	14.68	14.55	14.41	14.27
10	.3131 - .3440	59.81	43.34	33.77	24.98	19.38	16.87	15.92	14.68	14.55	14.41	14.27
11	.3441 - .3760	59.81	43.34	33.77	24.98	19.38	16.87	15.92	14.68	14.55	14.41	14.27
12	.3761 - .4070	65.56	45.68	36.08	27.46	22.22	18.66	17.96	16.87	16.75	16.60	16.46
13	.4071 - .4390	65.56	45.68	36.08	27.46	22.22	18.66	17.96	16.87	16.75	16.60	16.46
14	.4391 - .4700	65.56	45.68	36.08	27.46	22.22	18.66	17.96	16.87	16.75	16.60	16.46
15	.4701 - .5050	65.56	45.68	36.08	27.46	22.22	18.66	17.96	16.87	16.75	16.60	16.46
16	.5051 - .5670	69.94	49.68	40.19	31.28	25.79	22.24	21.25	21.11	20.99	20.84	20.70
17	.5671 - .6300	69.94	49.68	40.19	31.28	25.79	22.24	21.25	21.11	20.99	20.84	20.70
18	.6301 - .6920	75.58	52.97	43.34	34.32	30.73	25.25	24.29	24.13	24.00	23.86	23.74
19	.6921 - .7550	77.66	54.87	45.39	36.62	33.17	30.50	26.08	25.95	25.79	25.65	25.50
20	.7551 - .8170	81.32	58.60	49.12	40.19	35.51	30.33	29.63	29.48	29.35	29.22	29.09
21	.8171 - .8800	81.88	58.86	49.68	40.91	36.62	30.73	30.03	29.74	29.63	29.48	29.37
22	.8801 - .9420	85.75	62.55	53.49	44.45	38.00	34.34	33.23	32.92	32.79	32.66	32.51
23	.9421 - 1.0100	88.48	65.85	55.98	47.20	44.45	38.00	36.74	35.95	35.81	35.67	35.51

List No. 534 -- Series 000 and above #23 -- Priced on request.



The Reamer Specialists





The Reamer Specialists



Carbide-Tipped Chucking Reamers

List No. CT550 Straight Shank, Straight Flute

For hole reaming in cast iron, heat-treated steels and other hard metals.



Size	Decimal Equiv.	Flute Length	Overall Length	Price Each
3/16	.1875	1 1/8	4 1/2	55.58
13/64	.2031	1 1/4	5	55.58
7/32	.2188	1 1/4	5	55.58
15/64	.2344	1 1/2	6	55.58
1/4	.2500	1 1/2	6	55.58
17/64	.2656	1 1/2	6	56.90
9/32	.2812	1 1/2	6	56.90
19/64	.2969	1 1/2	6	56.90
5/16	.3125	1 1/2	6	56.90
21/64	.3281	1 1/2	6	58.89
11/32	.3438	1 1/2	6	58.89
23/64	.3594	1 3/4	7	58.95
3/8	.3750	1 3/4	7	58.95
25/64	.3906	1 3/4	7	61.65
13/32	.4062	1 3/4	7	61.65
27/64	.4219	1 3/4	7	65.72
7/16	.4375	1 3/4	7	65.72
29/64	.4531	1 3/4	7	66.95
15/32	.4688	1 3/4	7	66.95
31/64	.4844	2	8	72.25

Size	Decimal Equiv.	Flute Length	Overall Length	Price Each
1/2	.5000	2	8	72.36
17/32	.5312	2	8	74.25
9/16	.5625	2	8	74.34
19/32	.5938	2	8	77.10
5/8	.6250	2 1/4	9	77.20
21/32	.6562	2 1/4	9	78.55
11/16	.6875	2 1/4	9	78.54
3/4	.7500	2 1/2	9 1/2	82.20
13/16	.8125	2 1/2	9 1/2	84.95
7/8	.8750	2 5/8	10	88.27
15/16	.9375	2 5/8	10	102.95
1	1.0000	2 3/4	10 1/2	107.94
1 1/16	1.0625	2 3/4	10 1/2	116.24
1 1/8	1.1250	2 7/8	11	125.83
1 3/16	1.1875	2 7/8	11	132.25
1 1/4	1.2500	3	11 1/2	139.66
1 5/16	1.3125	3	11 1/2	147.18
1 3/8	1.3750	3 1/4	12	156.00
1 1/2	1.5000	3 1/2	12 1/2	182.60

Solid Carbide Chucking Reamers

List No. J-33 Straight Shank, Straight Flute



Size	Decimal Equiv.	Flute Length	Overall Length	Price Each
1/16	.0625	3/8	1 1/2	15.20
5/64	.0781	1/2	1 3/4	15.65
3/32	.0938	1/2	2	17.55
7/64	.1094	5/8	2 1/4	19.95
1/8	.1250	5/8	2 1/4	21.30
9/64	.1406	3/4	2 1/4	23.75
5/32	.1562	3/4	2 1/2	25.55
11/64	.1719	7/8	2 3/4	27.90
3/16	.1875	7/8	2 3/4	29.70
13/64	.2031	1	3	32.35
7/32	.2188	1	3	35.66
15/64	.2344	1	3	38.20

Size	Decimal Equiv.	Flute Length	Overall Length	Price Each
1/4	.2500	1	3	40.95
17/64	.2656	1 1/8	3 1/4	41.75
9/32	.2812	1 1/8	3 1/4	44.78
19/64	.2969	1 1/8	3 1/4	46.90
5/16	.3125	1 1/8	3 1/4	49.92
21/64	.3281	1 1/4	3 1/2	52.35
11/32	.3438	1 1/4	3 1/2	56.50
23/64	.3594	1 1/4	3 1/2	60.05
3/8	.3750	1 1/4	3 1/2	65.48
13/32	.4062	1 1/4	3 1/2	79.00
7/16	.4375	1 3/8	4	88.00
1/2	.5000	1 1/2	4	113.50

Decimal Sizes Available.
Please call today.

Drill and Reamer Blanks - High Speed Steel

List No. 833 Drill Blank

Through 1/2" dia. +.0000 -.0003
Above 1/2" dia. +.0000 -.0005

Dia.	Decimal Equiv.	OAL	Price Each
# 80	.0135	3/4	2.22
# 79	.0145	3/4	2.22
1/64	.0156	3/4	2.22
# 78	.0160	7/8	2.22
# 77	.0180	7/8	2.22
# 76	.0200	7/8	2.22
# 75	.0210	1	2.22
# 74	.0225	1	2.14
# 73	.0240	1 1/8	2.14
# 72	.0250	1 1/8	2.14
# 71	.0260	1 1/4	2.14
# 70	.0280	1 1/4	2.14
# 69	.0292	1 3/8	2.14
# 68	.0310	1 3/8	2.14
1/32	.0312	1 3/8	2.03
# 67	.0320	1 3/8	2.14
# 66	.0330	1 3/8	2.14
# 65	.0350	1 1/2	2.14
# 64	.0360	1 1/2	2.14
# 63	.0370	1 1/2	2.14
# 62	.0380	1 1/2	2.14
# 61	.0390	1 5/8	2.14
# 60	.0400	1 5/8	2.51
# 59	.0410	1 5/8	2.51
# 58	.0420	1 5/8	2.51
# 57	.0430	1 3/4	2.51
# 56	.0465	1 3/4	2.51
3/64	.0469	1 3/4	2.51
# 55	.0520	1 7/8	2.51
# 54	.0550	1 7/8	2.51
# 53	.0595	1 7/8	2.51
1/16	.0625	1 7/8	2.29
# 52	.0635	1 7/8	2.51
# 51	.0670	2	2.51
# 50	.0700	2	2.69
# 49	.0730	2	2.69
# 48	.0760	2	2.69
5/64	.0781	2	2.44
# 47	.0785	2	2.69
# 46	.0810	2 1/8	2.69
# 45	.0820	2 1/8	2.69
# 44	.0860	2 1/8	2.69
# 43	.0890	2 1/4	2.69
# 42	.0935	2 1/4	2.69
3/32	.0938	2 1/4	2.44
# 41	.0960	2 3/8	2.69
# 40	.0980	2 3/8	2.69
# 39	.0995	2 3/8	2.69
# 38	.1015	2 1/2	2.69
# 37	.1040	2 1/2	2.69
# 36	.1065	2 1/2	2.69
7/64	.1094	2 5/8	2.44
# 35	.1100	2 5/8	2.69
# 34	.1110	2 5/8	2.69
# 33	.1130	2 5/8	2.69
# 32	.1160	2 3/4	2.69
# 31	.1200	2 3/4	2.69

List No. 933 Reamer Blank

Through 1/2" dia. +.0002 -.0000
Above 1/2" dia. +.0005 -.0000

Dia.	Decimal Equiv.	OAL	Price Each
1/8	.1250	2 3/4	2.44
# 30	.1285	2 3/4	2.69
# 29	.1360	2 7/8	2.69
# 28	.1405	2 7/8	2.69
9/64	.1406	2 7/8	2.69
# 27	.1440	3	2.69
# 26	.1470	3	2.69
# 25	.1495	3	2.69
# 24	.1520	3 1/8	2.69
# 23	.1540	3 1/8	2.69
5/32	.1562	3 1/8	2.60
# 22	.1570	3 1/8	2.48
# 21	.1590	3 1/4	2.74
# 20	.1610	3 1/4	2.74
# 19	.1660	3 1/4	2.74
# 18	.1695	3 1/4	2.74
11/64	.1719	3 1/4	2.74
# 17	.1730	3 3/8	2.74
# 16	.1770	3 3/8	2.74
# 15	.1800	3 3/8	2.74
# 14	.1820	3 3/8	3.15
# 13	.1850	3 1/2	3.15
3/16	.1875	3 1/2	3.03
# 12	.1890	3 1/2	3.15
# 11	.1910	3 1/2	3.44
# 10	.1935	3 5/8	3.44
# 9	.1960	3 5/8	4.08
# 8	.1990	3 5/8	4.08
# 7	.2010	3 5/8	4.08
13/64	.2031	3 5/8	4.08
# 6	.2040	3 3/4	4.08
# 5	.2055	3 3/4	4.08
# 4	.2090	3 3/4	4.08
# 3	.2130	3 3/4	4.08
7/32	.2188	3 3/4	3.99
# 2	.2210	3 7/8	4.08
# 1	.2280	3 7/8	4.17
A	.2340	3 7/8	4.17
15/64	.2344	3 7/8	4.17
B	.2380	4	4.17
C	.2420	4	4.17
D	.2460	4	4.17
E 1/4	.2500	4	4.17
F	.2570	4 1/8	4.37
G	.2610	4 1/8	5.28
17/64	.2656	4 1/8	5.28
H	.2660	4 1/8	5.16
I	.2720	4 1/8	5.28
J	.2770	4 1/8	5.75
K	.2810	4 1/4	5.75
9/32	.2812	4 1/4	5.33
L	.2900	4 1/4	5.75
M	.2950	4 3/8	6.20
19/64	.2969	4 3/8	6.20
N	.3020	4 3/8	6.20
5/16	.3125	4 1/2	6.00
O	.3160	4 1/2	6.56

Made from hardened (Rc 63-65) high speed steel and ground, these blanks can be used as punches, gauges, pins, or ground for special tools.

Dia.	Decimal Equiv.	OAL	Price Each
P	.3230	4 5/8	7.22
21/64	.3281	4 5/8	7.09
Q	.3320	4 3/4	7.22
R	.3390	4 3/4	7.78
11/32	.3438	4 3/4	7.59
S	.3480	4 7/8	8.65
T	.3580	4 7/8	8.65
23/64	.3594	4 7/8	8.61
U	.3680	5	9.64
3/8	.3750	5	9.48
V	.3770	5	9.63
W	.3860	5 1/8	10.01
25/64	.3906	5 1/8	9.78
X	.3970	5 1/8	10.01
Y	.4040	5 1/4	10.93
13/32	.4062	5 1/4	10.70
Z	.4130	5 1/4	10.93
27/64	.4219	5 3/8	11.90
7/16	.4375	5 1/2	13.49
29/64	.4531	5 5/8	13.71
15/32	.4688	5 3/4	14.04
31/64	.4844	5 7/8	16.87
1/2	.5000	6	15.96
33/64	.5156	6	20.11
17/32	.5312	6	18.96
35/64	.5469	6	21.06
9/16	.5625	6	22.22
37/64	.5781	6	23.07
19/32	.5938	6	23.91
39/64	.6094	6	25.42
5/8	.6250	6	26.62
41/64	.6406	6	27.37
21/32	.6562	6	28.32
43/64	.6719	6	29.22
11/16	.6875	6	30.03
45/64	.7031	6	31.32
23/32	.7188	6	32.66
47/64	.7344	6	33.90
3/4	.7500	6	34.42
49/64	.7656	6	35.54
25/32	.7812	6	36.78
51/64	.7969	6	37.98
13/16	.8125	6	39.12
53/64	.8281	6	40.32
27/32	.8438	6	41.42
55/64	.8594	6	42.64
7/8	.8750	6	43.75
57/64	.8906	6	44.98
29/32	.9062	6	46.12
59/64	.9219	6	47.26
15/16	.9375	6	48.41
61/64	.9531	6	49.63
31/32	.9688	6	51.12
63/64	.9844	6	52.76
1	1.0000	6	54.51

Blanks through 1/4" are packed 12 per package. From 1/4" to 1/2" 6 per package, above 1/2" packed individually.

LONG BLANKS -- Price Upon Request

		Tolerances	
		Under 1/2 -- Plus .0 Minus .0003	Over 1/2 -- Plus .0 Minus .0005
DRILL: List No. 833	Drill blanks 6, 12, and 18" lengths Drill blanks 24 and 36" lengths	Under 1/2 -- Plus .0 Minus .0005	Over 1/2 -- Plus .0 Minus .0005
REAMER: List No. 933	Drill blanks 6, 12, and 18" lengths Drill blanks 24 and 36" lengths	Under 1/2 -- Plus .0 Minus .0003	Over 1/2 -- Plus .0 Minus .0005

*Also available in Cobalt upon request.



The Reamer Specialists





The Reamer Specialists



Core Drills - Straight Shank High Speed Steel

List No. 421 Three Flute

List No. 422 Four Flute

Used to enlarge and straighten cored or drilled holes. Because of their rigidity, these tools generate holes of closer tolerance and better finish than standard drills. They may be used to enlarge holes as small as 60% of the tool diameter.



Size	Dec. Equiv.	Flute Length	Overall Length	PRICE EACH	
				421 Three Flute	422 Four Flute
1/4	.2500	3 3/4	6 1/8	35.69	34.64
17/64	.2656	3 7/8	6 1/4	38.12	X
9/32	.2812	3 7/8	6 1/4	37.72	X
5/16	.3125	4	6 3/8	38.30	37.20
11/32	.3438	4 1/8	6 1/2	40.85	X
23/64	.3594	4 1/4	6 3/4	44.90	X
3/8	.3750	4 1/4	6 3/4	42.00	40.90
13/32	.4062	4 3/8	7	48.20	44.90
7/16	.4375	4 5/8	7 1/4	46.15	44.90
29/64	.4531	4 3/4	7 1/2	X	52.28
15/32	.4688	4 3/4	7 1/2	54.00	50.17
1/2	.5000	4 3/4	7 3/4	54.70	51.25
33/64	.5156	4 3/4	8	X	57.29
17/32	.5312	4 3/4	8	65.45	53.70
9/16	.5625	4 7/8	8 1/4	64.75	56.50
19/32	.5938	4 7/8	8 3/4	74.30	67.95
5/8	.6250	4 7/8	8 3/4	79.80	71.95
41/64	.6406	5 1/8	9	X	81.40
21/32	.6562	5 1/8	9	81.50	77.00
11/16	.6875	5 3/8	9 1/4	88.78	82.50
23/32	.7188	5 5/8	9 1/2	97.50	81.25
3/4	.7500	5 7/8	9 3/4	100.70	86.75

Additional 64th sizes available on request.

Size	Dec. Equiv.	Flute Length	Overall Length	PRICE EACH	
				422 Four Flute	
49/64	.7656	6	9 7/8	109.50	
25/32	.7812	6	9 7/8	103.50	
13/16	.8125	6 1/8	10	117.75	
27/32	.8438	6 1/8	10	122.87	
7/8	.8750	6 1/8	10	117.50	
57/64	.8906	6 1/8	10	130.40	
29/32	.9062	6 1/8	10	125.00	
15/16	.9375	6 1/8	10 3/4	138.90	
31/32	.9688	6 3/8	11	155.50	
1	1.0000	6 3/8	11	148.60	
1 1/16	1.0625	6 5/8	11 1/4	227.50	
1 1/8	1.1250	7 1/8	11 3/4	235.70	
1 3/16	1.1875	7 3/8	12	258.70	
1 7/32	1.2188	7 1/2	12 1/8	268.44	
1 1/4	1.2500	7 7/8	12 1/2	277.50	
1 9/32	1.2812	8 1/2	14 1/8	322.50	
1 5/16	1.3125	8 5/8	14 1/4	340.60	
1 11/32	1.3438	8 3/4	14 3/8	350.70	
1 3/8	1.3750	8 7/8	14 1/2	360.22	
1 7/16	1.4375	9 1/8	14 3/4	384.00	

Core Drills - Taper Shank High Speed Steel

List No. 520 Three Flute

List No. 522 Four Flute

These drills are used to enlarge and straighten cored or drilled holes. Because of their rigidity, these tools generate holes of closer tolerance and better finish than standard drills. They may be used to enlarge holes as small as 60% of the tool diameter.



Size	Dec. Equiv.	Flute Length	OAL	Morse Taper No.	PRICE EACH	
					521 Three Flute	522 Four Flute
5/16	.3125	3 1/8	6 3/8	1	45.00	X
11/32	.3438	3 1/4	6 1/2	1	49.00	X
3/8	.3750	3 1/2	6 3/4	1	54.20	54.20
13/32	.4062	3 5/8	7	1	59.44	59.44
7/16	.4375	3 7/8	7 1/4	1	62.11	62.11
15/32	.4688	4 1/8	7 1/2	1	65.10	65.10
31/64	.4844	4 3/8	8 1/4	2	67.80	67.80
1/2	.5000	4 3/8	8 1/4	2	53.30	53.30
17/32	.5312	4 5/8	8 1/2	2	56.00	56.00
9/16	.5625	4 7/8	8 3/4	2	60.25	60.25
19/32	.5938	4 7/8	8 3/4	2	67.50	66.25
5/8	.6250	4 7/8	8 3/4	2	70.30	68.20
21/32	.6562	5 1/8	9	2	75.30	75.00
11/16	.6875	5 3/8	9 1/4	2	82.00	76.60
45/64	.7031	5 5/8	9 1/2	2	X	99.26
23/32	.7188	5 5/8	9 1/2	2	87.15	86.70
47/64	.7344	5 5/8	9 1/2	2	X	101.20
3/4	.7500	5 7/8	9 3/4	2	93.12	88.30
49/64	.7656	6	9 7/8	2	X	110.26
25/32	.7812	6	9 7/8	2	96.60	96.60
51/64	.7969	6 1/8	10 3/4	3	X	120.17
13/16	.8125	6 1/8	10 3/4	3	113.75	112.90
27/32	.8438	6 1/8	10 3/4	3	X	118.99
55/64	.8594	6 1/8	10 3/4	3	X	129.87

Size	Dec. Equiv.	Flute Length	OAL	Morse Taper No.	PRICE EACH	
					521 Three Flute	522 Four Flute
7/8	.8750	6 1/8	10 3/4	3	122.35	119.80
29/32	.9062	6 1/8	10 3/4	3	129.10	129.10
59/64	.9219	6 1/8	10 3/4	3	X	139.50
15/16	.9375	6 1/8	10 3/4	3	129.10	129.10
61/64	.9531	6 3/8	11	3	X	160.00
31/32	.9688	6 3/8	11	3	X	149.40
63/64	.9844	6 3/8	11	3	X	165.00
1	1.0000	6 3/8	11	3	153.78	149.40
1 1/64	1.0156	6 1/2	11 1/8	3	179.90	179.90
1 1/32	1.0312	6 1/2	11 1/8	3	X	163.50
1 3/64	1.0469	6 5/8	11 1/4	3	X	188.88
1 1/16	1.0625	6 5/8	11 1/4	3	175.88	175.88
1 5/64	1.0781	6 7/8	11 1/2	4	X	210.40
1 3/32	1.0938	6 7/8	12 1/2	4	X	196.00
1 1/8	1.1250	7 1/8	12 3/4	4	208.10	208.10
1 5/32	1.1562	7 1/4	12 7/8	4	X	213.98
1 3/16	1.1875	7 3/8	13	4	230.00	230.00
1 7/32	1.2188	7 1/2	13 1/8	4	X	244.50
1 1/4	1.2500	7 7/8	13 1/2	4	260.00	260.00
1 9/32	1.2812	8 1/2	14 1/8	4	X	308.19
1 5/16	1.3125	8 5/8	14 1/4	4	X	311.25
1 11/32	1.3438	8 3/4	14 3/8	4	X	332.00
1 3/8	1.3750	8 7/8	14 1/2	4	X	332.00
1 13/32	1.4062	9	14 5/8	4	X	355.80

Core Drills - Taper Shank High Speed Steel

List No. 522 Four Flute

Used to enlarge and straighten cored or drilled holes. Because of their rigidity, these tools generate closer-tolerance holes and better finish than standard drills. They may be used to enlarge holes as small as 60% of the tool diameter.



Size	Dec. Equiv.	Flute Length	Overall Length	Morse Taper No.	Price Each
1 7/16	1.4375	9 1/8	14 3/4	4	373.59
1 15/32	1.4688	9 1/4	14 7/8	4	391.50
1 1/2	1.5000	9 3/8	15	4	392.30
1 17/32	1.5312	9 3/8	16 3/8	5	453.00
1 35/64	1.5469	9 5/8	16 5/8	5	496.16
1 9/16	1.5625	9 5/8	16 5/8	5	483.92
1 19/32	1.5938	9 7/8	16 7/8	5	523.90
1 39/64	1.6094	10	17	5	560.00
1 5/8	1.6250	10	17	5	507.75
1 21/32	1.6562	10 1/8	17 1/8	5	593.75
1 11/16	1.6875	10 1/8	17 1/8	5	615.97
1 23/32	1.7188	10 1/8	17 1/8	5	615.97
1 3/4	1.7500	10 1/8	17 1/8	5	654.90
1 25/32	1.7812	10 1/8	17 1/8	5	682.60
1 13/16	1.8125	10 1/8	17 1/8	5	702.00
1 27/32	1.8438	10 1/8	17 1/8	5	699.00
1 29/32	1.9062	10 3/8	17 3/8	5	798.98
1 15/16	1.9375	10 3/8	17 3/8	5	745.44

Size	Dec. Equiv.	Flute Length	Overall Length	Morse Taper No.	Price Each
1 31/32	1.9688	10 3/8	17 3/8	5	834.50
2	2.0000	10 3/8	17 3/8	5	791.20
2 1/16	2.0625	10 1/4	17 3/8	5	880.20
2 1/8	2.1250	10 1/4	17 3/8	5	857.80
2 5/32	2.1562	10 1/4	17 3/8	5	950.00
2 3/16	2.1875	10 1/4	17 3/8	5	1075.20
2 1/4	2.2500	10 1/8	17 3/8	5	1065.50
2 3/8	2.3750	10 1/8	17 3/8	5	1197.70
2 7/16	2.4375	11 1/4	18 3/4	5	1455.70
2 1/2	2.5000	11 1/4	18 3/4	5	1374.50
2 9/16	2.5625	11 7/8	19 1/2	5	1545.00
2 5/8	2.6250	11 7/8	19 1/2	5	1620.00
2 11/16	2.6875	12 3/4	20 3/8	5	1659.00
2 3/4	2.7500	12 3/4	20 3/8	5	1880.50
2 13/16	2.8125	13 3/8	21 1/8	5	2020.00
2 7/8	2.8750	13 3/8	21 1/8	5	2039.00
2 15/16	2.9375	14	21 3/4	5	2183.00
3	3.0000	14	21 3/4	5	2295.00

Additional 64th sizes available on request.

Combined Drills and Countersinks High Speed Steel

List No. 585U

List No. 585UTC Tin Coated



Combined drills and countersinks are used when locating an accurate center hole is required to assure the precision and quality of subsequent machining operations.

Size	Body Diameter	Drill Dia. & Length	Overall Length	Package Quantity	PRICE EACH	
					585U	585UTC Tin Coated
1	1/8	3/64	1 1/4	12	6.11	7.21
2	3/16	5/64	1 7/8	12	6.41	7.51
3	1/4	7/64	2	12	6.66	8.80
4	5/16	1/8	2 1/8	12	6.86	9.06
5	7/16	3/16	2 3/4	6	10.87	13.64
6	1/2	7/32	3	6	16.38	19.15
7	5/8	1/4	3 1/4	1	23.68	28.39
8	3/4	5/16	3 1/2	1	32.68	40.47

Long series also available.

Combined Drills and Countersink Sets High Speed Steel

Set No.	Set Description	Pieces Per Set	Price Each
585UP5	No. 1 through 5	5	35.90
585UP8	No. 1 through 8	8	108.65



The Reamer Specialists





Matched Reamer and Blank Sets

High Speed Steel

These sets provide a method of maintaining a complete stock of reamers in ranges to suit your requirements. They have particular benefits in tool and die shops where they save time and energy. A stock on a machinist's workbench saves many trips to the tool crib. They are available in handsome wooden cases, metal index boxes, and vinyl plastic in many styles and size ranges.



Fractional Size Reamer Sets - Straight Shank

List No.'s: 533, 535, 535L, SC533, SC535

Set No.	No. of Reamers	Flute Type	Range	Length	Type Case	Dia. Range	Price Incl. Case
1	13	RH Spiral	1/16 to 1/4	Regular	Wood	By 64ths	223.73
3	29	RH Spiral	1/16 to 1/2	Regular	Wood	By 64ths	603.87
3-M	29	RH Spiral	1/16 to 1/2	Regular	Metal	By 64ths	573.55
3-P	29	RH Spiral	1/16 to 1/2	Regular	Plastic	By 64ths	537.74
4	29	LH Spiral	1/16 to 1/2	Regular	Wood	By 64ths	629.87
5-M	13	Straight	1/16 to 1/4	Drill	Metal	By 64ths	136.63
6	13	Straight	1/16 to 1/4	Regular	Wood	By 64ths	198.84
7-M	29	Straight	1/16 to 1/2	Drill	Metal	By 64ths	410.71
8	29	Straight	1/16 to 1/2	Regular	Wood	By 64ths	556.48
8-P	29	Straight	1/16 to 1/2	Regular	Plastic	By 64ths	521.61
8-M	29	Straight	1/16 to 1/2	Regular	Metal	By 64ths	490.30
9-M	29	RH Spiral	1/16 to 1/2	Drill	Metal	By 64ths	449.86
40-P	21	Straight	1/16 to 3/8	Regular	Plastic	By 64ths	312.57
41-P	21	RH Spiral	1/16 to 3/8	Regular	Plastic	By 64ths	330.74
42-P	15	Straight	1/16 to 1/2	Regular	Plastic	By 32nds	236.66
43-P	15	RH Spiral	1/16 to 1/2	Regular	Plastic	By 32nds	282.80
46-M	15	Straight	1/16 to 1/2	Drill	Metal	By 32nds	208.68
47-M	15	RH Spiral	1/16 to 1/2	Drill	Metal	By 32nds	232.19

Wire Gauge Size Reamer Sets

Straight Shank, 60 Pieces per Set

List No.'s: 533, 535, 535L, SC533, SC535

Set No.	Flute Type	Range	Length	Type Case	Price Incl. Case
10	RH Spiral	#1 to #60	Regular	Wood	907.65
10-M	RH Spiral	#1 to #60	Regular	Metal	869.04
10-P	RH Spiral	#1 to #60	Regular	Plastic	845.91
11	LH Spiral	#1 to #60	Regular	Wood	930.52
12-M	Straight	#1 to #60	Drill	Metal	635.00
13	Straight	#1 to #60	Regular	Wood	816.94
13-M	Straight	#1 to #60	Regular	Metal	786.81
13-P	Straight	#1 to #60	Regular	Plastic	755.15
14-M	RH Spiral	#1 to #60	Drill	Metal	709.08
15-M	Straight	#61 to #80	Regular	Metal	291.49

Letter Size Reamers - A to Z

Straight Shank, 26 Pieces per Set

List No.'s: 533, 535, 535L, SC533, SC535

Set No.	Flute Type	Length	Type Case	Price Incl. Case
20	RH Spiral	Regular	Wood	586.09
20-M	RH Spiral	Regular	Metal	554.91
20-P	RH Spiral	Regular	Plastic	519.94
21	LH Spiral	Regular	Wood	609.37
22-M	Straight	Drill	Metal	408.63
23	Straight	Regular	Wood	554.62
23-M	Straight	Regular	Metal	527.28
23-P	Straight	Regular	Plastic	488.48
24-M	RH Spiral	Drill	Metal	433.03

Special sets available upon request.

Matched Reamer and Blank Sets

High Speed Steel

Over and Under Size Reamers - .1240 to .5010
Straight Shank, 14 Pieces per Set

List No.'s: 533, 535, 535L, SC533, SC535

Set No.	Flute Type	Length	Type Case	Price Incl. Case
30	RH Spiral	Regular	Wood	342.26
31	LH Spiral	Regular	Wood	356.97
32	Straight	Regular	Wood	319.23
32-P	Straight	Regular	Plastic	249.59
33-P	Straight	Drill	Plastic	215.60
34-P	RH Spiral	Drill	Plastic	234.20

Dowel Pin Size Reamers - .1230 to .4995, 14 Pieces
List No.'s: 570, 575, 575L, SC570, SC575

Set No.	Flute Type	Length	Type Case	Price Incl. Case
70	Straight	Regular	Wood	319.41
70-P	Straight	Regular	Plastic	256.21
71	RH Spiral	Regular	Wood	341.60
72	LH Spiral	Regular	Wood	357.38
73-P	Straight	Drill	Plastic	214.29
74-P	RH Spiral	Drill	Plastic	233.10

Drill and Reamer Blank Sets in Metal Case

List No.'s: 833 - Drill Blanks, 933 - Reamer Blanks

Drill Blank Set No.	Reamer Blank Set No.	No. of Blanks	Range	Price Incl. Case
80-M	90-M	29	1/16" to 1/2"	194.18
81-M	91-M	60	#1 to #60	213.48
82-M	92-M	20	#61 to #80	53.57
83-M	93-M	26	A to Z	180.99

Standard Metric Sets

List No.: 533

Set No.	No. of Reamers	Range	Length	Type Case	Price Incl. Case
16	13	1mm to 7mm	ASA	Wood	217.49
17-P	25	1mm to 13mm	ASA	Plastic	445.62

Silver & Deming

Reamer and Reamer & Drill Sets*

6" Overall Length - 1/2" Shank - In Wood Block

All sets are by 8ths, plus 11/16 and 13/16

List No.'s: 75, 76, 77

Set No.	No. of Reamers	Range	Tool Type	Price Incl. Case
75	6	5/8 to 1	Reamer	299.00
76	10	5/8 to 1 1/2	Reamer	779.00
77*	12	5/8 to 1	Drill & Reamer	569.00

Combination Drill-Length Reamer Set

1 to 60, A to Z, 1/16 to 1/2 by 64ths

Straight Shank, 115 Pieces Per Set, in Metal Case

List No.'s: SC533, SC535

Set No.	Flute Type	Price Incl. Case
50-M	Straight	1501.96
51-M	RH Spiral	1630.73

Cobalt Steel Reamers - Dowel Pin Sizes

.1230 to .4995, Regular Length

14 Pieces per Set in Wood Case

List No.'s: 1533, 1535

Set No.	Flute Type	Price Incl. Case
1570	Straight	436.21
1575	RH Spiral	471.02

Cobalt Steel Reamers

Over and Under Sizes, .1240 to .5010
14 Pieces, Wood Case

List No.'s: 1533, 1535

Set No.	Flute Type	Price Incl. Case
C-30	Spiral	438.09
C-32	Straight	404.08

Cobalt Steel Reamer Sets

Fractional, Wire Gauge, Letter Size

List No.: 1533, 1535

Set No.	No. of Reamers	Range	Type Case	Dia.	Flute Type	Price Incl. Case
C-3 W	29	1/16 to 1/2	Wood	By 64ths	Spiral	917.93
C-3 M	29	1/16 to 1/2	Metal	By 64ths	Spiral	879.60
C-8 W	29	1/16 to 1/2	Wood	By 64ths	Straight	874.22
C-8 M	29	1/16 to 1/2	Metal	By 64ths	Straight	824.33
C-8 P	29	1/16 to 1/2	Plastic	By 64ths	Straight	821.55
C-13 W	60	1 to 60	Wood	--	Straight	1067.20
C-13 M	60	1 to 60	Metal	--	Straight	1016.38
C-13 P	60	1 to 60	Plastic	--	Straight	1011.85
C-23 W	26	A to Z	Wood	--	Straight	876.33
C-23 M	26	A to Z	Metal	--	Straight	834.60
C-23 P	26	A to Z	Plastic	--	Straight	831.57

NOTE:

Set numbers followed by a "P" are in plastic pouches. Set numbers followed by an "M" are in metal boxes. All other sets are in wooden boxes.



Special sets available upon request.



The Reamer Specialists





LAVALLEE & IDE COMPANY

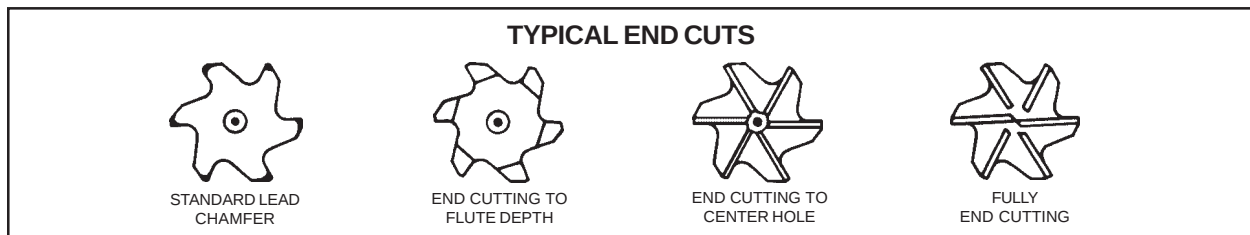
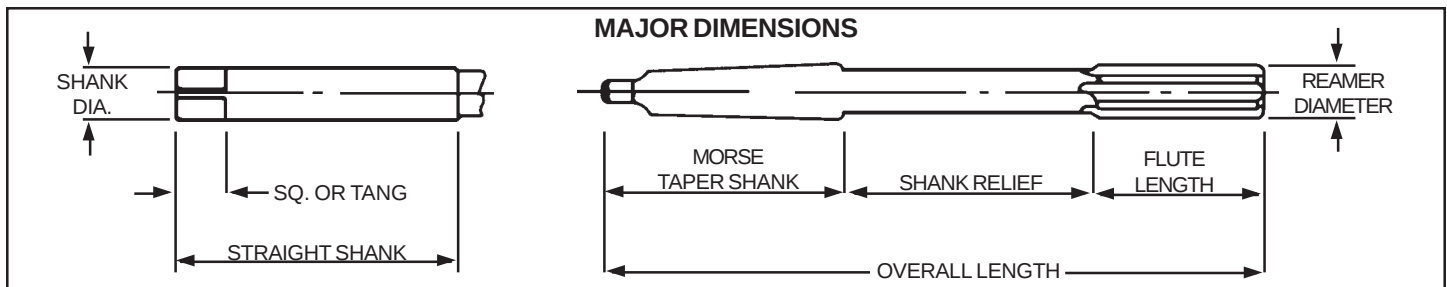
<http://www.lavallee-ide.com>

The Reamer Specialists

SPECIAL REAMER QUOTATION FORM

Please fill out the following form for a quote on Special Reamers.

1. Make a copy of this form.
2. Fill in the specifications.
3. Fax or e-mail to your Lavallee & Ide Distributor.



Quantity: _____

Material: HSS ☐ Cobalt ☐ Carbide ☐ Carbide Tipped ☐

Reamer Diameter: _____

Type of Flute: STR ☐ RHS ☐ LHS ☐

Length of Flute: _____

Overall Length: _____

Shank Diameter: STD _____ REDUCED SHANK _____ DIA. X LENGTH _____

Shank: STR _____ TANG _____ SQ _____ MTS# _____ THREADED HEX _____

REAMING RECOMMENDATIONS



The Reamer Specialists



Work piece hardness and machinability must be considered when setting machine speed.

The feed rate plays an important part in the life expectancy of a tool and the hole finish which one is looking to attain. Improper feed rate can cause excessive tool wear as well as an inadequate hole finish.

Excessive tool wear and hole finish can be a result of all of the above.

To eliminate chatter, slow cutting speed and increase feed appropriately.

Stock removal on roughing operations should not exceed 2 to 4 percent of tool diameter in most cases.

Stock removal recommendations on finishing operations are .002 to .004.

For best results with brass, cast iron and some plastics, use a left-hand spiral-fluted reamer with negative shear action. This type of reamer helps prevent chips from working back into the spiral flutes and scoring the hole.

In all reaming operations, use constant-flow coolants. Soluble oil is effective for most metals; however, sulphur-based oils are recommended for stainless and certain alloy steels. Lard oil and kerosene improve the finish on aluminum.

Recommended Stock Removal

Reamer Diameter	Removal (Inches)
Up to 1/16 Incl.....	.003 to .005
Over 1/16 to 1/8 Incl.....	.004 to .008
Over 1/8 to 1/4 Incl.....	.006 to .012
Over 1/4 to 3/8 Incl.....	.008 to .014
Over 3/8 to 1/2 Incl.....	.010 to .015
Over 1/2 to 3/4 Incl.....	.012 to .018

Recommended Feeds

Material	Feet in Inches Per Revolution
STEELS	
Rockwell C50 or Harder.....	.002 to .004
Rockwell C30 to 50.....	.004 to .008
Cast Iron & Malleable Iron.....	.005 to .010
Non-Ferrous Materials.....	.005 to .012

Recommended Speeds

Material	Speed in Surface Feet Per Minute
Steel (All Types)	
Rockwell C60 or Harder.....	8-12
Rockwell C50 to 60.....	15-30
Rockwell C40 to 50.....	20-40
Rockwell C30 to 40.....	35-65
Under Rockwell C30.....	60-90
Cast Iron & Malleable Iron.....	50-85
Non-Ferrous	
Aluminum, Brass, Bronze, Copper, Fibre, Plastic, Hard Rubber, etc.....	90-175

Recommended Lubricants

Material	Lubricant
Steel harder than Rockwell C50.....	Light Oil
Steel softer than Rockwell C50.....	Light Oil for Good Finishes or Soluble Oil and Water
Cast Iron & Malleable Iron.....	Soluble Oil and Water
Non-Ferrous Materials.....	Soluble Oil and Water

All Dimensions in Inches



SALES POLICY

Minimum Order: \$35.00 Net

Any combination of standard tooling which can be priced out of this catalogue pertains to the minimum order requirement.

Quotations:

Rendered within 24 hours of receipt in the majority of cases. For special quotes, please see page 9.

Shipping Policy:

Orders for standard inventory items within the contiguous 48 States with a net value of more than \$1000.00 will not be assessed shipping charges. A one-time "Drop Ship" charge of \$3.00 will be applied to all orders that are shipped directly to the end-user. Unless otherwise specified on quotes or purchase orders, Industry Standards of 10% over or under shipment are acceptable terms to consider orders complete.

Terms:

Net 30. There will be a 1.5% monthly finance charge applied on amounts that are past due 30 days or more (18% APR).

Cancellations:

Cancellations of special tools are subject to a charge for raw material and work performed prior to the notification of cancellation. All cancellation requests must be confirmed in writing within 7 working days.

Return Goods Policy:

1. No returns will be accepted or credit issued without prior authorization.
2. All returns must have an RGA (Returned Goods Authorization) number assigned prior to return.
3. Authorized stock returns must be accompanied by an offsetting order of 20% greater than the value of the stock return.
4. Along with the returned goods and RGA, return documentation must include original purchase order number and invoice number.
5. RGA number must clearly appear on the exterior of the package or label of the package being returned.
6. RGA numbers are valid for 30 days and will become void if tools are not received within the specified time.
7. All returns are subject to our in-house inspection prior to credit.
8. All orders of catalogue standards returned due to customer error is subject to a restocking charge of \$10.00 minimum or 20%, whichever is greater.
9. Special tools are "non-returnable." (Exception: Items not manufactured to print. Full inspection required before credit to be issued.)
10. All returns prepaid to Factory - Return Goods Department.
11. All claims should be made within 10 days upon receipt of goods.

DECIMAL EQUIVALENTS

Decimal Equivalents and Tap Sizes in **Fraction**, Number, **Letter**, and **Metric** Sizes.

Recommended tap sizes for approximately 75% depth of thread.

Size	Decimal	Tap Size	Size	Decimal	Tap Size	Size	Decimal	Tap Size	Size	Decimal	Tap Size	Size	Decimal	Tap Size
97	.0059		3/64	.0469	#0 -- 80	22	.1570	3/16-32NS	7.5mm	.2953		45/64	.7031	
.15mm	.0059		1.2mm	.0472		4mm	.1575		19/64	.2969		18mm	.7087	m20x2.0
96	.0063		1.25mm	.0492	m1.6x0.35	21	.1590	#10 -- 32	7.6mm	.2992		23/32	.7188	1/2-14NPT PIPE
.16mm	.0063		1.3mm	.0512		20	.1610		N	.3020		18.5mm	.7283	m20x1.5
95	.0067		55	.0520		4.1mm	.1614		7.7mm	.3031		47/64	.7344	1/2-14NPS PIPE
.17mm	.0067		1.35mm	.0531		4.2mm	.1654	m5x0.8	7.75mm	.3051	m9x1.25	19mm	.7480	
94	.0071		54	.0550		19	.1660		7.8mm	.3071		3/4	.7500	
.18mm	.0071		1.4mm	.0551		4.25mm	.1673		7.9mm	.3110		49/64	.7656	7/8-9NC
93	.0075		1.45mm	.0571	m1.8x0.35	4.3mm	.1693		5/16	.3125	3/8-16NC	19.5mm	.7677	m22x2.5
.19mm	.0075		1.5mm	.0591		18	.1695		8mm	.3150		25/32	.7812	
92	.0079		53	.0595	#1 -- 64, 72	11/64	.1719		O	.3160		20mm	.7874	m22x2.0
.2mm	.0079		1.55mm	.0610		17	.1730		8.1mm	.3189		51/64	.7969	
91	.0083		1/16	.0625		4.4mm	.1732		8.2mm	.3228		20.5mm	.8071	m22x1.5
.21mm	.0083		1.6mm	.0630	m2x0.4	16	.1770	#12 -- 24	P	.3230		13/16	.8125	7/8-14NF
90	.0087		52	.0635		4.5mm	.1772		8.25mm	.3248		21mm	.8268	m24x3
.22mm	.0087		1.65mm	.0650		15	.1800		8.3mm	.3268		53/64	.8281	
89	.0091		1.7mm	.0669		4.6mm	.1811		21/64	.3281		27/32	.8438	
.23mm	.0091		51	.0670	#2 -- 56	14	.1820	#12 -- 28	8.4mm	.3307		21.5mm	.8465	
.24mm	.0094		1.75mm	.0689	m2.2x0.45	13	.1850		Q	.3320	3/8-24NF	55/64	.8594	
88	.0095		50	.0700	#2 -- 64	4.7mm	.1850		8.5mm	.3346	m10x1.5	22mm	.8661	m24x2
.25mm	.0098		1.8mm	.0709		4.75mm	.1870		8.6mm	.3386		7/8	.8750	1-8NC
87	.0100		1.85mm	.0728		3/16	.1875		R	.3390	1/8-27NPS PIPE	22.25mm	.8760	
.26mm	.0102		49	.0730		4.8mm	.1890		8.7mm	.3425		22.5mm	.8858	m24x1.50
86	.0105		1.9mm	.0748	m2.3x0.4	12	.1890	732-32NS	11/32	.3438		57/64	.8906	
.27mm	.0106		48	.0760		11	.1910		8.75mm	.3445	m10x1.00	23mm	.9055	
85	.0110		1.95mm	.0768		4.9mm	.1929		8.8mm	.3465		29/32	.9062	
.28mm	.0110		5/64	.0781		10	.1935		S	.3480		59/64	.9219	3/4-14NPT PIPE
.29mm	.0114		47	.0785	# -- 48	9	.1960		8.9mm	.3504		23.5mm	.9252	
84	.0115		2mm	.0787		5mm	.1969	m6x1	9mm	.3543		15/16	.9375	3/4-14NPS PIPE 1-14NF
.3mm	.0118		2.05mm	.0807	m2.5x0.45	8	.1990		T	.3580		24mm	.9449	m27x3
83	.0120		46	.0810		5.1mm	.2008		9.1mm	.3583		61/64	.9531	
82	.0125		45	.0820	# -- 56	7	.2010	1/4 -- 20	23/64	.3594		24.5mm	.9646	
.32mm	.0126		2.1mm	.0827		13/64	.2031		9.2mm	.3622		31/32	.9688	
81	.0130		2.15mm	.0846	m2.6x0.45	6	.2040		9.25mm	.3642		25mm	.9843	m27x2
.34mm	.0134		44	.0860	#4 -- 36	5.2mm	.2047		9.3mm	.3661		63/64	.9844	1-1/8 -- 7NC
80	.0135		2.2mm	.0866		5	.2055		U	.3680	7/16-14NC	1	1.0000	
.35mm	.0138		2.25mm	.0886		5.25mm	.2067	m6x0.75	9.4mm	.3701		25.5mm	1.0039	
.36mm	.0142		43	.0890	#4 -- 40	5.3mm	.2087		9.5mm	.3740	m11x1.50	1.1/64	1.0156	
79	.0145		2.3mm	.0906		4	.2090	1/4 -- 24	3/8	.3750		26mm	1.0236	
.38mm	.0150		2.35mm	.0925		5.4mm	.2126		V	.3770		1.1/32	1.0312	
1/64	.0156		42	.0935	#4 -- 48	3	.2130	1/4 -- 28	9.6mm	.3780		26.5mm	1.0433	m30x3.5
.4mm	.0157		3/32	.0938		5.5mm	.2165		9.7mm	.3819		1.3/64	1.0469	1-1/8-12NF
78	.0160		2.4mm	.0945		7/32	.2188		9.75mm	.3839		1.1/16	1.0625	
.42mm	.0165		41	.0960		5.6mm	.2205		9.8mm	.3858		27mm	1.0630	
.44mm	.0173		2.45mm	.0965		2	.2210		W	.3860		1.5/64	1.0781	
.45mm	.0177		40	.0980		5.7mm	.2244		9.9mm	.3898		27.5mm	1.0827	
77	.0180		2.5mm	.0984	m3x0.5	5.75mm	.2264		25/64	.3906	7/16 -- 20	1.3/32	1.0938	
.46mm	.0181		39	.0995		1	.2280		10mm	.3937	m12x1.75	28mm	1.1024	m30x2.0
.48mm	.0189		38	.1015	#5 -- 40	5.8mm	.2283		X	.3970		1.7/64	1.1094	1-1/4-7NC
.5mm	.0197		2.6mm	.1024		5.9mm	.2323		Y	.4040		28.5mm	1.1220	
76	.0200		37	.1040	#5 -- 44	A	.2340		13/32	.4062		1.1/8	1.1250	
.75mm	.0210		2.7mm	.1063		15/64	.2344		Z	.4130		1.9/64	1.1406	
.77mm	.0217		36	.1065	#6 -- 32	6mm	.2362	m7x1	10.5mm	.4134	m12x1.25	29mm	1.1417	
74	.0225		2.75mm	.1083		B	.2380		27/64	.4219	1/2 -- 13	1.5/32	1.1562	1-11/16NPT PIPE
.6mm	.0236		7/64	.1094		6.1mm	.2402		11mm	.4331		29.5mm	1.1614	
73	.0240		35	.1100		C	.2420		7/64	.4375	1/4-18NPT PIPE	1.11/64	1.1719	1-1/4-12NF
.72mm	.0250		2.8mm	.1102		6.2mm	.2441		11.5mm	.4528		30mm	1.1811	
.65mm	.0256		34	.1110		D	.2460	1/16-27NPT PIPE	29/64	.4531	1/4-18NPT 1/2x20	1.3/16	1.1875	
71	.0260		33	.1130	#6 -- 40	6.25mm	.2461		15/32	.4688		30.5mm	1.2008	
.7mm	.0276		2.9mm	.1142	m3.5x0.6	6.3mm	.2480		12mm	.4724	m14x2	1.13/64	1.2031	
70	.0280		32	.1160		E	.2500		31/64	.4844	9/16 -- 12	1.7/32	1.2188	1-3/8-6
.69mm	.0292		3mm	.1181		1/4	.2500	1/16-27NPS PIPE	12.5mm	.4921	m14x1.5	31mm	1.2205	
.75mm	.0295		31	.1200		6.4mm	.2520		1/2	.5000		1.15/64	1.2344	
68	.0310		3.1mm	.1220		6.5mm	.2559		13mm	.5118	m14x1.25	31.5mm	1.2402	
1/32	.0312		1/8	.1250	5/32-32NS	F	.2570	5/16-18NC	33/64	.5156	9/16 -- 18	1.1/4	1.2500	
.8mm	.0315		3.2mm	.1260		6.6mm	.2598		17/32	.5312	5/8 -- 11	32mm	1.2598	
67	.0320		3.25mm	.1280		G	.2610		13.5mm	.5315		1.17/64	1.2656	
.66mm	.0330		30	.1285	5/32-36NS	6.7mm	.2638		35/64	.5469		1.9/32	1.2812	
.85mm	.0335		3.3mm	.1299	m4x0.7	17/64	.2656		14mm	.5512	m16x2	1.19/64	1.2969	1-3/8-12
65	.0350		3.4mm	.1339		6.75mm	.2657	m5x1.25	9/16	.5625		32.5mm	1.2795	
.9mm	.0354		29	.1360	#8 -- 32	H	.2660		14.5mm	.5709	m16x1.5	33mm	1.2992	
.64mm	.0360		3.5mm	.1378		6.8mm	.2677		37/64	.5781	3/8-18NPT 5/8-18NF	1.5/16	1.3125	
63	.0370		28	.1405		6.9mm	.2717		15mm	.5906		33.5mm	1.3189	
.95mm	.0374		9/64	.1406		I	.2720	5/16-24NF	19/32	.5938	3/8-18NPS PIPE	1.21/64	1.3281	
62	.0380		3.6mm	.1417		7mm	.2756	m8x1	39/64	.6094		34mm	1.3386	
.61mm	.0380		27	.1440		J	.2770		15.5mm	.6102	m18x2.5	1.11/32	1.3438	1-1/2-6
.1mm	.0384		3.7mm	.1457		7.1mm	.2795		5/8	.6250	11/16-16NS	34.5mm	1.3583	
60	.0400		26	.1470	3/16-24NS	K	.2810		16mm	.6299	m18x2.0	1.23/64	1.3594	
.59mm	.0410		3.75mm	.1476	m4.5x0.75	9/32	.2812	5/16-32NS	41/64	.6406		1.3/8	1.3750	
1.05mm	.0413		25	.1495	#10 -- 24	7.2mm	.2835		16.5mm	.6496		35mm	1.3780	
58	.0420		3.8mm	.1496		7.25mm	.2854		21/32	.6562	3/4-10NC	1.25/64	1.3906	
.57mm	.0430		24	.1520		7.3mm	.2874		17mm	.6693		35.5mm	1.3976	
1.1mm	.0433		3.9mm	.1535		L	.2900		43/64	.6719		1.13/32	1.4062	
1.15mm	.0453		23	.1540		7.4mm	.2913		11/16	.6875	3/4-16NF	36mm	1.4173	
56	.0465		5/32	.1562		M	.2950		17.5mm	.6890	m20x2.5	1.27/64	1.4219	1-1/2-12

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