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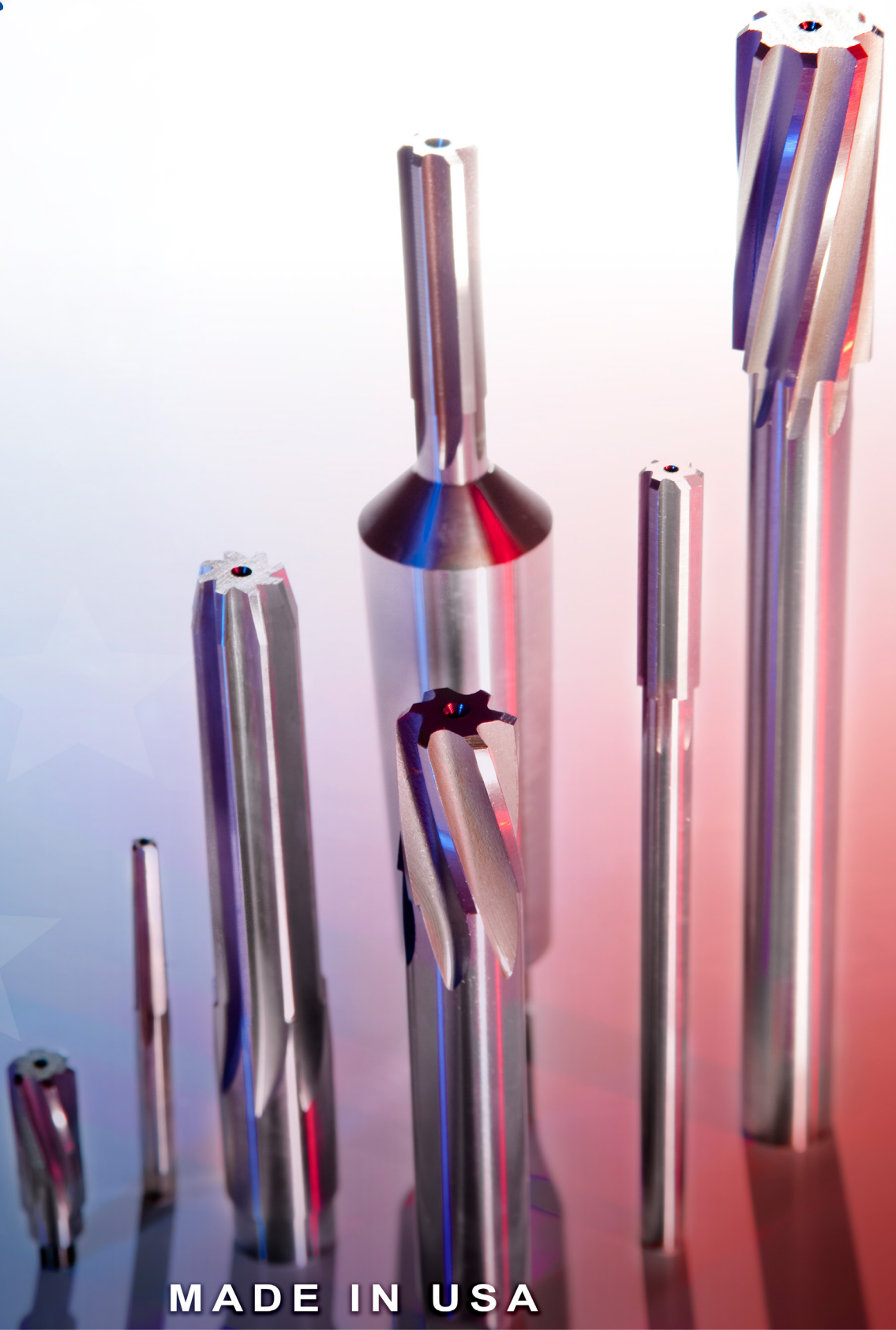
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MADE IN USA

MAS 897

NOTES:
1. REMAINER SECTION TO BE MANUFACTURED TO BE MANUFACTURED TO MEET TORQUE REQUIREMENTS.
2. LEAD ADAPTOR TO BE MANUFACTURED TO MEET TORQUE REQUIREMENTS.
3. LEAD AS NOTED AND MEET TORQUE REQUIREMENTS.

NOTES:
CONFIGURATION PER OTHER.

RES.

1.620 $\pm .0004$
DIA

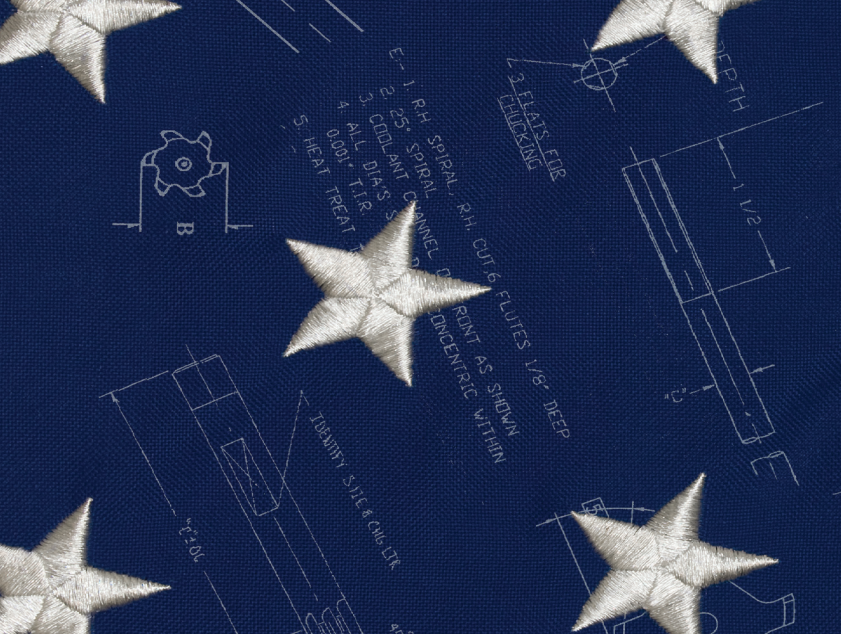
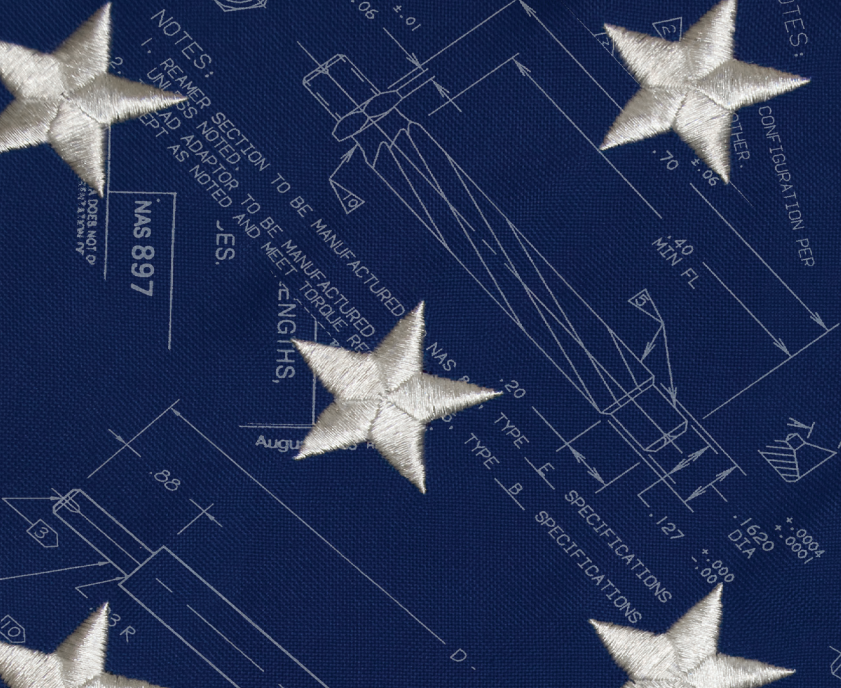
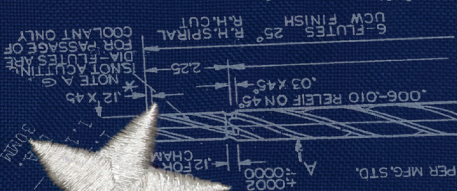
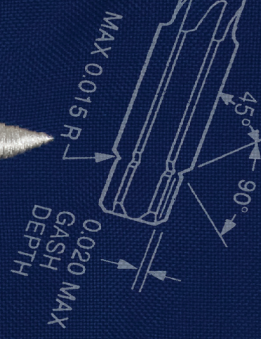
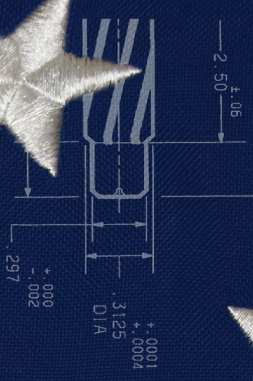
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0.350 DIA
GAGE TITINA

0.350 DIA

0.350 DIA



WASH NO	A	B	C	NO OF FLUTES
1	0.0002	0.0002	0.0002	4/G
2	0.0002	0.0002	0.0002	4/G
3	0.0002	0.0002	0.0002	4/G
4	0.0002	0.0002	0.0002	4/G
5	0.0002	0.0002	0.0002	4/G
6	0.0002	0.0002	0.0002	4/G
7	0.0002	0.0002	0.0002	4/G
8	0.0002	0.0002	0.0002	4/G
9	0.0002	0.0002	0.0002	4/G
10	0.0002	0.0002	0.0002	4/G





Warranty

Yankee warrants to original equipment manufacturers, distributors and industrial and commercial users of its products that each new product which it manufactures or supplies is free from defects in material and craftsmanship. Yankee's sole obligation under this warranty is limited to furnishing, without additional charge, a replacement for, or at its option, repairing or issuing credit for such product which shall, within 30 days from date of sale by Yankee, be returned freight prepaid to the plant and which, upon inspection, is determined by Yankee to be defective in materials or workmanship. The provisions of this warranty shall not apply to any product which has been subjected to misuse, improper operating conditions, machine setup or which has been repaired or altered, other than at Yankee.

Returned Goods

Returned goods, for any reason, will only be accepted with prior authorization given by Yankee. A Returned Goods Authorization (RGA) number assigned by Yankee must be clearly marked on the shipment in order to obtain credit. Orders returned due to customer error are subject to a 15% restocking charge. Credit will not be given on altered tools. Claims for shipping discrepancies or non-receipt must be made within 30 days.

Terms of Payment

1% Ten Days, Net Thirty Days. Invoices past due are subject to a 11/2% service charge per month (18% APR). Accounts past 45 days will be subject to placement on HOLD. Accounts repeatedly over terms will be subject to account termination.

Minimum Order

Orders must have a minimum of \$25 Net.

Shipping

Transportation pre-paid on orders of \$500 Net or more. FOB Fairfax, Vermont.

Specialty Tools

Industry practice assumes a 10% over/under policy on the shipment of specialty tools. Quotations and purchase orders must be clearly marked if over/under shipments are not allowed. Cancellation of specialty tools are subject to material and workmanship charges prior to cancellation.

Catalog Pricing

All pricing found within this catalog is available via email. Our pricing files contains an comma delimited,ASCII text format (.CSV), which can be imported into most database and spreadsheet programs. .PDF or .XLS versions of our pricing may be available upon request..

Please call,email, or fax us today for your copy.

Safety

Even though all products manufactured by The Yankee Corporation are designed for safe operation under normal use, cutting tools may break and/or shatter. We stress the importance of safety in your tool usage.

1. **Always** use safety glasses/goggles when performing any reaming operation.
2. **Never** exceed recommended speeds or feeds for your application.

Diameter Tolerances

Chucking, Production and Hand Reamers:

Up to .5000.	+0.0002
.	+0.0000
.5001 up to .6250.	+0.0003
.	+0.0000
.6251 up to 1.5000	+0.0001
.	+0.0004
1.5001 and up	+0.0002
.	+0.0006

Dowel Pin Reamers:

All Sizes	-0.0002
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Taper Reamers:

All Sizes	+0.0005
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Valve Guide Reamers:

All Sizes	+0.0005
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Counterbores:

All Sizes	+0.0005
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6 Chucking Reamers | Straight Shank

HIGH SPEED STEEL



433

Straight
Flute

435

Right Hand
Spiral

435L

Left Hand
Spiral

For a complete listing of
stocked decimal sizes,
please refer to pages 12-13.

Decimal	Wire	Letter	Fraction	Over/ Under	Metric	Flute Length	# of Flutes	Overall Length	Shank Diameter	433 List Price	435/435L List Price
0.0135	#80					3/8	2	3/4	.0135	\$29.30	—
0.0145	#79					3/8	2	3/4	.0145	\$29.30	—
0.0156			1/64			3/8	2	3/4	.0156	\$29.30	—
0.0160	#78					3/8	2	7/8	.0160	\$29.30	—
0.0180	#77					3/8	2	7/8	.0180	\$29.30	—
0.0200	#76					3/8	2	7/8	.0200	\$29.30	—
0.0210	#75					1/2	3	1	.0210	\$29.30	—
0.0225	#74					1/2	3	1	.0225	\$29.30	—
0.0240	#73					1/2	3	1-1/8	.0240	\$29.30	—
0.0250	#72					1/2	3	1-1/8	.0250	\$29.30	—
0.0260	#71					1/2	3	1-1/4	.0260	\$29.30	—
0.0280	#70					1/2	3	1-1/4	.0280	\$29.30	—
0.0292	#69					1/2	3	1-3/8	.0292	\$29.30	—
0.0310	#68					1/2	3	1-3/8	.0310	\$29.30	—
0.0312			1/32			1/2	3	1-3/8	.0312	\$23.15	—
0.0320	#67					1/2	3	1-3/8	.0320	\$24.60	—
0.0330	#66					1/2	3	1-3/8	.0330	\$24.60	—
0.0350	#65					1/2	3	1-1/2	.0350	\$24.60	—
0.0360	#64					1/2	3	1-1/2	.0360	\$24.60	—
0.0370	#63					1/2	3	1-1/2	.0370	\$24.60	—
0.0380	#62					1/2	3	1-1/2	.0380	\$24.60	—
0.0390	#61					1/2	3	1-1/2	.0390	\$24.60	—
0.0394					1.0mm	1/2	4	2-1/2	.0394	\$24.60	\$28.30
0.0400	#60					1/2	4	2-1/2	.0390	\$24.60	\$28.30
0.0410	#59					1/2	4	2-1/2	.0390	\$24.60	\$28.30
0.0420	#58					1/2	4	2-1/2	.0390	\$24.60	\$28.30
0.0430	#57					1/2	4	2-1/2	.0390	\$24.60	\$28.30
0.0465	#56					1/2	4	2-1/2	.0455	\$24.60	\$28.30
0.0469			3/64			1/2	4	2-1/2	.0455	\$24.60	\$28.30
0.0520	#55					1/2	4	2-1/2	.0510	\$24.60	\$28.30
0.0550	#54					1/2	4	2-1/2	.0510	\$24.60	\$28.30
0.0591					1.5mm	1/2	4	2-1/2	.0510	\$24.60	\$28.30
0.0595	#53					1/2	4	2-1/2	.0585	\$24.60	\$28.30
0.0625			1/16			1/2	4	2-1/2	.0585	\$22.15	\$28.30
0.0635	#52					1/2	4	2-1/2	.0585	\$22.15	\$28.30
0.0670	#51					3/4	4	3	.0660	\$19.80	\$22.85
0.0700	#50					3/4	4	3	.0660	\$19.80	\$22.85
0.0730	#49					3/4	4	3	.0660	\$19.80	\$22.85
0.0760	#48					3/4	4	3	.0720	\$19.80	\$22.85
0.0781			5/64			3/4	4	3	.0720	\$19.80	\$22.85
0.0785	#47					3/4	4	3	.0720	\$19.80	\$22.85
0.0787					2.0mm	3/4	4	3	.0720	\$19.80	\$22.85
0.0810	#46					3/4	4	3	.0771	\$19.80	\$22.85
0.0820	#45					3/4	4	3	.0771	\$19.80	\$22.85
0.0860	#44					3/4	4	3	.0810	\$19.80	\$22.85
0.0890	#43					3/4	4	3	.0810	\$19.80	\$22.85
0.0935	#42					3/4	4	3	.0880	\$19.80	\$22.85
0.0938			3/32			3/4	4	3	.0880	\$17.85	\$22.55
0.0960	#41					7/8	4	3-1/2	.0928	\$20.05	\$23.00
0.0980	#40					7/8	4	3-1/2	.0928	\$20.05	\$23.00
0.0984					2.5mm	7/8	4	3-1/2	.0928	\$20.05	\$23.00
0.0995	#39					7/8	4	3-1/2	.0928	\$20.05	\$23.00
0.1015	#38					7/8	4	3-1/2	.0950	\$20.05	\$23.00
0.1040	#37					7/8	4	3-1/2	.0950	\$20.05	\$23.00
0.1065	#36					7/8	4	3-1/2	.1030	\$20.05	\$23.00
0.1094			7/64			7/8	4	3-1/2	.1030	\$20.60	\$23.60
0.1100	#35					7/8	4	3-1/2	.1030	\$20.60	\$23.60
0.1110	#34					7/8	4	3-1/2	.1055	\$20.60	\$23.60
0.1130	#33					7/8	4	3-1/2	.1055	\$20.60	\$23.60
0.1160	#32					7/8	4	3-1/2	.1120	\$20.60	\$23.60
0.1181					3.0mm	7/8	4	3-1/2	.1120	\$19.60	\$22.50
0.1200	#31					7/8	4	3-1/2	.1120	\$20.60	\$23.60
0.1240					o/u	7/8	4	3-1/2	.1190	\$19.60	\$22.50
0.1250			1/8			7/8	4	3-1/2	.1190	\$18.75	\$21.40
0.1260					o/u	7/8	4	3-1/2	.1190	\$19.60	\$22.50
0.1285	#30					7/8	4	3-1/2	.1190	\$20.60	\$23.60
0.1360	#29					1	4	4	.1275	\$24.60	\$28.30
0.1378					3.5mm	1	4	4	.1350	\$24.60	\$28.30

Decimal	Wire Letter	Fraction	Over/Under	Metric	Flute Length	# of Flutes	Overall Length	Shank Diameter	433 List Price	435/435L List Price
0.1405	#28				1	4	4	.1350	\$24.60	\$28.30
0.1406		9/64			1	4	4	.1350	\$24.60	\$28.30
0.1440	#27				1	4	4	.1350	\$24.60	\$28.30
0.1470	#26				1	4	4	.1430	\$24.60	\$28.30
0.1495	#25				1	4	4	.1430	\$24.60	\$28.30
0.1520	#24				1	4	4	.1460	\$24.60	\$28.30
0.1540	#23				1	4	4	.1460	\$24.60	\$28.30
0.1562		5/32			1	4	4	.1510	\$24.60	\$28.30
0.1570	#22				1	6	4	.1510	\$24.60	\$28.30
0.1575				4.0mm	1	6	4	.1510	\$24.60	\$28.30
0.1590	#21				1-1/8	6	4-1/2	.1530	\$26.25	\$30.25
0.1610	#20				1-1/8	6	4-1/2	.1530	\$26.25	\$30.25
0.1660	#19				1-1/8	6	4-1/2	.1595	\$26.25	\$30.25
0.1695	#18				1-1/8	6	4-1/2	.1595	\$26.25	\$30.25
0.1719		11/64			1-1/8	6	4-1/2	.1645	\$26.25	\$30.25
0.1730	#17				1-1/8	6	4-1/2	.1645	\$26.25	\$30.25
0.1770	#16				1-1/8	6	4-1/2	.1704	\$26.25	\$30.25
0.1772				4.5mm	1-1/8	6	4-1/2	.1704	\$26.25	\$30.25
0.1800	#15				1-1/8	6	4-1/2	.1755	\$26.25	\$30.25
0.1820	#14				1-1/8	6	4-1/2	.1755	\$26.25	\$30.25
0.1850	#13				1-1/8	6	4-1/2	.1805	\$26.25	\$30.25
0.1865			o/u		1-1/8	6	4-1/2	.1805	\$25.05	\$28.80
0.1875		3/16			1-1/8	6	4-1/2	.1805	\$23.85	\$27.40
0.1885			o/u		1-1/8	6	4-1/2	.1805	\$25.05	\$28.80
0.1890	#12				1-1/8	6	4-1/2	.1805	\$26.25	\$30.25
0.1910	#11				1-1/4	6	5	.1860	\$29.50	\$33.90
0.1935	#10				1-1/4	6	5	.1860	\$29.50	\$33.90
0.1960	#9				1-1/4	6	5	.1895	\$29.50	\$33.90
0.1969				5.0mm	1-1/4	6	5	.1895	\$29.50	\$33.90
0.1990	#8				1-1/4	6	5	.1895	\$29.50	\$33.90
0.2010	#7				1-1/4	6	5	.1945	\$29.50	\$33.90
0.2031		13/64			1-1/4	6	5	.1945	\$29.50	\$33.90
0.2040	#6				1-1/4	6	5	.1945	\$29.50	\$33.90
0.2055	#5				1-1/4	6	5	.2016	\$29.50	\$33.90
0.2090	#4				1-1/4	6	5	.2016	\$29.50	\$33.90
0.2130	#3				1-1/4	6	5	.2075	\$29.50	\$33.90
0.2165				5.5mm	1-1/4	6	5	.2075	\$29.50	\$33.90
0.2188		7/32			1-1/4	6	5	.2075	\$29.50	\$33.90
0.2210	#2				1-1/2	6	6	.2173	\$30.25	\$34.80
0.2280	#1				1-1/2	6	6	.2173	\$30.25	\$34.80
0.2340		A			1-1/2	6	6	.2265	\$30.25	\$34.80
0.2344		15/64			1-1/2	6	6	.2265	\$30.25	\$34.80
0.2362				6.0mm	1-1/2	6	6	.2265	\$31.85	\$35.05
0.2380	B				1-1/2	6	6	.2329	\$31.85	\$35.05
0.2420	C				1-1/2	6	6	.2329	\$31.85	\$35.05
0.2460	D				1-1/2	6	6	.2329	\$31.85	\$35.05
0.2490			o/u		1-1/2	6	6	.2405	\$30.35	\$33.35
0.2500	E	1/4			1-1/2	6	6	.2405	\$28.95	\$31.75
0.2510			o/u		1-1/2	6	6	.2405	\$30.35	\$33.35
0.2559				6.5mm	1-1/2	6	6	.2405	\$31.85	\$35.05
0.2570	F				1-1/2	6	6	.2485	\$31.85	\$35.05
0.2610	G				1-1/2	6	6	.2485	\$31.85	\$35.05
0.2656		17/64			1-1/2	6	6	.2485	\$35.55	\$39.10
0.2660	H				1-1/2	6	6	.2485	\$35.55	\$39.10
0.2720	I				1-1/2	6	6	.2485	\$35.55	\$39.10
0.2756				7.0mm	1-1/2	6	6	.2485	\$35.55	\$39.10
0.2770	J				1-1/2	6	6	.2485	\$35.55	\$39.10
0.2810	K				1-1/2	6	6	.2485	\$35.55	\$39.10
0.2812		9/32			1-1/2	6	6	.2485	\$33.75	\$36.60
0.2900	L				1-1/2	6	6	.2792	\$35.55	\$39.10
0.2950	M				1-1/2	6	6	.2792	\$35.55	\$39.10
0.2953				7.5mm	1-1/2	6	6	.2792	\$35.55	\$39.10
0.2969		19/64			1-1/2	6	6	.2792	\$35.55	\$39.10
0.3020	N				1-1/2	6	6	.2792	\$35.55	\$39.10
0.3115			o/u		1-1/2	6	6	.2792	\$33.85	\$37.25
0.3125		5/16			1-1/2	6	6	.2792	\$32.20	\$35.45
0.3135			o/u		1-1/2	6	6	.2792	\$33.85	\$37.25
0.3150				8.0mm	1-1/2	6	6	.2792	\$33.85	\$37.25



433

Straight Flute

435

Right Hand Spiral

435L

Left Hand Spiral

For a complete listing of stocked decimal sizes, please refer to pages 12-13.



PHONE **800.343.2404**

sales@yankeereamer.com

www.yankeereamer.com



8 Chucking Reamers | Straight Shank

HIGH SPEED STEEL



433
Straight
Flute

435
Right Hand
Spiral

435L
Left Hand
Spiral

For a complete listing of stocked decimal sizes, please refer to pages 12-13.

Decimal	Wire	Letter	Fraction	Over/Under	Metric	Flute Length	# of Flutes	Overall Length	Shank Diameter	433 List Price	435/435L List Price
0.3160		O				1-1/2	6	6	.2792	\$35.55	\$39.10
0.3230		P				1-1/2	6	6	.2792	\$38.00	\$41.85
0.3281			21/64			1-1/2	6	6	.2792	\$38.00	\$41.85
0.3320		Q				1-1/2	6	6	.2792	\$38.00	\$41.85
0.3346					8.5mm	1-1/2	6	6	.2792	\$38.00	\$41.85
0.3390		R				1-1/2	6	6	.2792	\$38.00	\$41.85
0.3438			11/32			1-1/2	6	6	.2792	\$38.00	\$41.85
0.3480		S				1-3/4	6	7	.3105	\$38.40	\$42.25
0.3543					9.0mm	1-3/4	6	7	.3105	\$38.40	\$42.25
0.3580		T				1-3/4	6	7	.3105	\$38.40	\$42.25
0.3594			23/64			1-3/4	6	7	.3105	\$38.40	\$42.25
0.3680		U				1-3/4	6	7	.3105	\$38.40	\$42.25
0.3740				o/u	9.5mm	1-3/4	6	7	.3105	\$36.55	\$40.25
0.3750			3/8			1-3/4	6	7	.3105	\$34.80	\$38.35
0.3760				o/u		1-3/4	6	7	.3105	\$36.55	\$40.25
0.3770		V				1-3/4	6	7	.3105	\$41.65	\$45.90
0.3860		W				1-3/4	6	7	.3105	\$41.65	\$45.90
0.3906			25/64			1-3/4	6	7	.3105	\$41.65	\$45.90
0.3937					10.0mm	1-3/4	6	7	.3105	\$41.65	\$45.90
0.3970		X				1-3/4	6	7	.3105	\$41.65	\$45.90
0.4040		Y				1-3/4	6	7	.3105	\$43.30	\$47.65
0.4062			13/32			1-3/4	6	7	.3105	\$43.30	\$47.65
0.4130		Z				1-3/4	6	7	.3730	\$43.30	\$47.65
0.4134					10.5mm	1-3/4	6	7	.3730	\$43.30	\$47.65
0.4219			27/64			1-3/4	6	7	.3730	\$43.30	\$47.65
0.4331					11.0mm	1-3/4	6	7	.3730	\$43.30	\$47.65
0.4365				o/u		1-3/4	6	7	.3730	\$41.25	\$45.35
0.4375			7/16			1-3/4	6	7	.3730	\$39.25	\$43.10
0.4385				o/u		1-3/4	6	7	.3730	\$41.25	\$45.35
0.4528					11.5mm	1-3/4	6	7	.3730	\$47.10	\$51.85
0.4531			29/64			1-3/4	6	7	.3730	\$47.10	\$51.85
0.4688			15/32			1-3/4	6	7	.3730	\$47.10	\$51.85
0.4724					12.0mm	2	6	8	.4355	\$47.10	\$51.85
0.4844			31/64			2	6	8	.4355	\$47.10	\$51.85
0.4921					12.5mm	2	6	8	.4355	\$47.10	\$51.85
0.4990				o/u		2	6	8	.4355	\$44.85	\$49.40
0.5000			1/2			2	6	8	.4355	\$42.70	\$47.10
0.5010				o/u		2	6	8	.4355	\$44.85	\$49.40
0.5118					13.0mm	2	6	8	.4355	\$58.35	\$61.20
0.5156			33/64			2	6	8	.4355	\$58.35	—
0.5312			17/32			2	6	8	.4355	\$55.65	\$61.20
0.5315					13.5mm	2	6	8	.4355	\$58.35	—
0.5469			35/64			2	8	8	.4355	\$60.25	—
0.5512					14.0mm	2	8	8	.4355	\$60.25	—
0.5615				o/u		2	8	8	.4355	\$60.25	—
0.5625			9/16			2	8	8	.4355	\$57.40	\$63.10
0.5635				o/u		2	8	8	.4355	\$60.25	—
0.5709					14.5mm	2	8	8	.4355	\$60.25	—
0.5781			37/64			2	8	8	.4355	\$60.25	—
0.5906					15.0mm	2	8	8	.4355	\$60.25	—
0.5938			19/32			2	8	8	.4355	\$57.40	\$63.10
0.6094			39/64			2-1/4	8	9	.5615	\$70.30	—
0.6102					15.5mm	2-1/4	8	9	.5615	\$70.30	—
0.6240				o/u		2-1/4	8	9	.5615	\$70.30	—
0.6250			5/8			2-1/4	8	9	.5615	\$67.20	\$73.60
0.6260				o/u		2-1/4	8	9	.5615	\$72.15	—
0.6299					16.0mm	2-1/4	8	9	.5615	\$72.15	\$75.55
0.6406			41/64			2-1/4	8	9	.5615	\$72.15	—
0.6496					16.5mm	2-1/4	8	9	.5615	\$72.15	—
0.6562			21/32			2-1/4	8	9	.5615	\$77.70	\$79.50
0.6693					17.0mm	2-1/4	8	9	.5615	\$81.55	—
0.6719			43/64			2-1/4	8	9	.5615	\$81.55	—
0.6865				o/u		2-1/4	8	9	.5615	\$81.55	—
0.6875			11/16			2-1/4	8	9	.5615	\$77.70	\$85.50
0.6885				o/u		2-1/4	8	9	.5615	\$87.60	—
0.6890					17.5mm	2-1/4	8	9	.5615	\$87.60	—
0.7031			45/64			2-1/4	8	9	.5615	\$87.60	—
0.7087					18.0mm	2-1/4	8	9	.5615	\$87.60	—
0.7188			23/32			2-1/4	8	9	.5615	\$86.75	\$95.45
0.7283					18.5mm	2-1/2	8	9-1/2	.6240	\$91.00	—
0.7344			47/64			2-1/2	8	9-1/2	.6240	\$100.80	—

Made in the USA

Decimal	Wire Letter Fraction	Over/Under	Metric	Flute Length	# of Flutes	Overall Length	Shank Diameter	433 List Price	435/435L List Price
0.7480			19.0mm	2-1/2	8	9-1/2	.6240	\$100.80	—
0.7490		o/u		2-1/2	8	9-1/2	.6240	\$100.80	—
0.7500	3/4			2-1/2	8	9-1/2	.6240	\$87.25	\$95.45
0.7510		o/u		2-1/2	8	9-1/2	.6240	\$97.05	—
0.7656	49/64		19.5mm	2-1/2	8	9-1/2	.6240	\$97.05	—
0.7677				2-1/2	8	9-1/2	.6240	\$97.05	—
0.7812	25/32		20.0mm	2-1/2	8	9-1/2	.6240	\$94.05	\$103.45
0.7874				2-1/2	8	9-1/2	.6240	\$103.90	—
0.7969	51/64			2-1/2	8	9-1/2	.6240	\$103.90	—
0.8071			20.5mm	2-1/2	8	9-1/2	.6240	\$103.90	—
0.8115		o/u		2-1/2	8	9-1/2	.6240	\$103.90	—
0.8125	13/16			2-1/2	8	9-1/2	.6240	\$94.05	\$103.45
0.8135		o/u		2-1/2	8	9-1/2	.6240	\$103.90	—
0.8268			21.0mm	2-1/2	8	9-1/2	.6240	\$103.90	—
0.8281	53/64			2-1/2	8	9-1/2	.6240	\$103.90	—
0.8438	27/32		21.5mm	2-1/2	8	9-1/2	.6240	\$111.30	\$122.45
0.8465				2-5/8	8	10	.7490	\$121.15	—
0.8594	55/64			2-5/8	8	10	.7490	\$121.15	—
0.8661			22.0mm	2-5/8	8	10	.7490	\$121.15	—
0.8740		o/u		2-5/8	8	10	.7490	\$121.15	—
0.8750	7/8			2-5/8	8	10	.7490	\$113.90	\$125.20
0.8760		o/u		2-5/8	8	10	.7490	\$123.70	—
0.8858			22.5mm	2-5/8	8	10	.7490	\$123.70	—
0.8906	57/64			2-5/8	8	10	.7490	\$123.70	—
0.9055			23.0mm	2-5/8	8	10	.7490	\$123.70	—
0.9062	29/32			2-5/8	8	10	.7490	\$122.65	\$135.00
0.9219	59/64			2-5/8	8	10	.7490	\$132.50	—
0.9252			23.5mm	2-5/8	8	10	.7490	\$132.50	—
0.9365		o/u		2-5/8	8	10	.7490	\$132.50	—
0.9375	15/16			2-5/8	8	10	.7490	\$122.65	\$135.00
0.9385		o/u		2-5/8	8	10	.7490	\$132.50	—
0.9449			24.0mm	2-5/8	8	10	.7490	\$132.50	—
0.9531	61/64			2-5/8	8	10	.7490	\$132.50	—
0.9646			24.5mm	2-5/8	8	10	.7490	\$132.50	—
0.9688	31/32			2-5/8	8	10	.7490	\$137.45	\$151.15
0.9843			25.0mm	2-3/4	8	10-1/2	.8740	\$140.70	—
0.9844	63/64			2-3/4	8	10-1/2	.8740	\$140.70	—
0.9990		o/u		2-3/4	8	10-1/2	.8740	\$140.70	—
1.0000	1			2-3/4	8	10-1/2	.8740	\$138.70	\$152.60
1.0010		o/u		2-3/4	8	10-1/2	.8740	\$148.55	—
1.0039			25.5mm	2-3/4	8	10-1/2	.8740	\$148.55	—
1.0236			26.0mm	2-7/8	8	10-1/2	.8740	\$193.00	—
1.0312	1-1/32			2-3/4	8	10-1/2	.8740	\$193.00	—
1.0625	1-1/16			2-3/4	8	10-1/2	.8740	\$153.80	\$169.15
1.0938	1-3/32			2-7/8	8	11	.8740	\$202.70	—
1.1024			28.0mm	2-7/8	8	11	.8740	\$163.40	—
1.1250	1-1/8			2-7/8	8	11	.8740	\$163.40	\$179.85
1.1562	1-5/32			2-7/8	10	11	.9990	\$230.70	—
1.1811			30.0mm	2-7/8	10	11	.8740	\$203.75	—
1.1875	1-3/16			2-7/8	10	11	.9990	\$191.40	\$210.60
1.2188	1-7/32			3	10	11-1/2	.9990	\$242.10	—
1.2500	1-1/4			3	10	11-1/2	.9990	\$202.90	\$223.20
1.2812	1-9/32			3	10	11-1/2	.9990	\$275.95	—
1.3125	1-5/16			3	10	11-1/2	.9990	\$236.60	\$260.25
1.3438	1-11/32			3-1/4	10	12	.9990	\$243.80	—
1.3750	1-3/8			3-1/4	10	12	.9990	\$248.65	\$273.55
1.4062	1-13/32			3-1/4	10	12	1.2490	\$305.90	—
1.4375	1-7/16			3-1/4	10	12	1.2490	\$266.70	\$293.35
1.4688	1-15/32			3-1/2	10	12-1/2	1.2490	\$326.40	—
1.5000	1-1/2			3-1/2	12	12-1/2	1.2490	\$287.10	\$315.80
1.5625	1-9/16			3-1/2	12	13	.9990	\$406.55	\$447.20
1.6250	1-5/8			3-1/2	12	13	1.2490	\$406.55	\$447.20
1.6875	1-11/16			4	12	13-1/2	1.2490	\$466.85	\$513.55
1.7500	1-3/4			4	12	13-1/2	1.2490	\$466.85	\$513.55
1.8125	1-13/16			4	12	14	1.4990	\$537.70	\$591.50
1.8750	1-7/8			4	12	14	1.4990	\$537.70	\$591.50
1.9375	1-15/16			4	12	14	1.4990	\$629.50	\$692.40
2.0000	2			4	12	14	1.4990	\$629.50	\$692.40



433 Straight Flute **435** Right Hand Spiral **435L** Left Hand Spiral

For a complete listing of stocked decimal sizes, please refer to pages 12-13.





10 Chucking Reamers | Straight Shank

HIGH SPEED STEEL

433 | Straight Flute



INTERMEDIATE SIZES

LIST PRICE EACH IN QUANTITIES OF:

Size Range	1	2	3-5	6-7	8-11	12-17	18-23	24-35	36-47	48-59	60-71	72-95	96+
0.0100-0.0195	\$160.30	\$104.75	\$78.10	\$56.60	\$51.15	\$43.50	\$39.30	\$36.60	\$35.70	\$32.60	\$31.75	\$31.30	\$30.55
0.0196-0.0290	\$145.70	\$95.15	\$70.95	\$51.55	\$46.50	\$40.80	\$35.75	\$33.35	\$30.85	\$29.60	\$29.60	\$29.50	\$29.30
0.0291-0.0390	\$132.50	\$86.40	\$64.50	\$46.80	\$42.30	\$37.05	\$32.55	\$30.30	\$28.10	\$26.95	\$26.20	\$25.90	\$25.25
0.0391-0.0624	\$129.25	\$83.50	\$63.35	\$44.75	\$39.85	\$34.00	\$30.30	\$28.10	\$25.90	\$24.65	\$23.95	\$23.60	\$23.05
0.0626-0.1093	\$126.05	\$80.70	\$62.20	\$42.60	\$37.35	\$30.95	\$28.10	\$25.90	\$23.65	\$22.30	\$21.75	\$21.35	\$20.80
0.1095-0.1249	\$124.35	\$79.00	\$58.50	\$37.30	\$32.75	\$29.90	\$24.60	\$22.30	\$22.00	\$21.70	\$21.30	\$20.90	\$20.70
0.1251-0.1405	\$132.50	\$86.40	\$58.35	\$46.80	\$44.00	\$37.05	\$32.55	\$30.30	\$28.10	\$26.95	\$26.25	\$25.90	\$24.95
0.1407-0.1561	\$130.40	\$85.05	\$64.65	\$45.35	\$40.70	\$35.55	\$30.95	\$28.80	\$27.25	\$26.55	\$25.95	\$25.30	\$24.70
0.1563-0.1718	\$132.50	\$82.65	\$64.25	\$46.80	\$42.40	\$37.05	\$32.55	\$30.30	\$28.10	\$27.65	\$27.25	\$26.95	\$26.45
0.1720-0.1874	\$127.00	\$79.35	\$64.20	\$43.55	\$39.15	\$35.05	\$30.80	\$28.50	\$28.10	\$27.75	\$27.35	\$26.65	\$26.25
0.1876-0.2030	\$136.00	\$90.70	\$71.15	\$52.40	\$47.90	\$42.55	\$38.00	\$35.90	\$33.45	\$31.75	\$30.95	\$30.80	\$30.55
0.2032-0.2187	\$136.00	\$90.70	\$70.40	\$51.55	\$47.10	\$41.75	\$37.20	\$35.05	\$32.75	\$30.80	\$30.40	\$30.05	\$29.85
0.2189-0.2343	\$136.55	\$91.30	\$70.95	\$52.20	\$47.70	\$42.40	\$37.80	\$35.60	\$33.40	\$32.05	\$31.55	\$31.30	\$30.95
0.2345-0.2499	\$136.55	\$91.30	\$67.50	\$48.40	\$43.95	\$38.70	\$34.30	\$32.15	\$29.70	\$29.60	\$29.15	\$28.85	\$28.70
0.2501-0.2968	\$141.85	\$96.45	\$76.00	\$57.75	\$53.30	\$47.65	\$43.15	\$40.90	\$38.55	\$36.50	\$36.20	\$35.90	\$35.55
0.2970-0.3124	\$137.95	\$92.50	\$72.05	\$53.35	\$48.95	\$43.50	\$38.95	\$36.60	\$36.50	\$36.20	\$35.95	\$35.75	\$35.55
0.3126-0.3437	\$144.85	\$98.75	\$78.20	\$55.75	\$54.00	\$49.85	\$45.50	\$43.15	\$40.75	\$39.00	\$38.55	\$38.25	\$38.00
0.3439-0.3593	\$144.70	\$99.35	\$78.70	\$60.80	\$56.35	\$52.85	\$48.50	\$43.80	\$41.55	\$39.60	\$39.15	\$38.85	\$38.55
0.3595-0.3749	\$140.45	\$95.00	\$74.50	\$56.00	\$51.55	\$46.10	\$41.65	\$39.15	\$39.10	\$39.00	\$38.65	\$38.55	\$38.40
0.3751-0.3905	\$147.05	\$101.75	\$81.40	\$63.40	\$58.95	\$54.05	\$49.45	\$47.20	\$44.95	\$42.60	\$42.45	\$42.05	\$41.65
0.3907-0.4218	\$148.90	\$103.50	\$83.00	\$65.45	\$60.95	\$55.15	\$50.70	\$48.40	\$46.20	\$44.20	\$43.65	\$43.50	\$43.40
0.4220-0.4374	\$146.10	\$100.80	\$80.15	\$62.50	\$57.95	\$52.20	\$47.65	\$45.35	\$44.95	\$44.85	\$44.75	\$43.80	\$43.30
0.4376-0.4843	\$152.85	\$107.40	\$86.90	\$69.85	\$65.35	\$59.25	\$52.55	\$51.55	\$50.40	\$48.80	\$48.40	\$47.90	\$47.50
0.4845-0.4999	\$149.25	\$103.85	\$83.35	\$65.80	\$61.40	\$55.30	\$48.60	\$48.40	\$48.05	\$47.85	\$47.50	\$47.35	\$47.10
0.5001-0.5311	\$171.20	\$120.85	\$96.45	\$77.00	\$71.55	\$64.50	\$58.55	\$57.10	\$55.70	\$54.95	\$54.40	\$54.05	\$53.80
0.5313-0.5624	\$192.40	\$137.40	\$109.20	\$87.90	\$81.40	\$73.55	\$68.40	\$65.80	\$63.15	\$61.85	\$61.15	\$60.50	\$60.25
0.5626-0.5937	\$204.45	\$146.10	\$117.90	\$92.65	\$87.30	\$83.15	\$80.45	\$75.55	\$72.75	\$71.60	\$70.80	\$70.30	\$69.55
0.5939-0.6249	\$205.00	\$146.40	\$118.20	\$91.25	\$87.60	\$83.50	\$78.30	\$75.90	\$73.10	\$71.90	\$71.00	\$70.55	\$70.30
0.6251-0.6874	\$222.45	\$158.90	\$129.85	\$105.60	\$100.65	\$98.90	\$89.65	\$87.05	\$84.40	\$83.10	\$82.20	\$81.80	\$81.55
0.6876-0.7187	\$233.65	\$166.85	\$137.90	\$125.20	\$111.55	\$103.80	\$98.55	\$95.95	\$93.35	\$91.95	\$91.10	\$90.45	\$89.95
0.7189-0.7499	\$238.10	\$170.00	\$141.15	\$128.75	\$115.55	\$107.40	\$102.10	\$101.95	\$101.80	\$101.75	\$101.35	\$101.15	\$100.80
0.7501-0.8124	\$252.25	\$180.20	\$151.35	\$139.00	\$126.55	\$118.60	\$113.25	\$110.65	\$107.95	\$106.65	\$105.90	\$105.30	\$104.60
0.8126-0.8437	\$266.55	\$190.35	\$161.55	\$149.15	\$137.70	\$129.90	\$124.45	\$121.80	\$119.20	\$117.85	\$116.95	\$116.50	\$115.85
0.8439-0.8749	\$270.15	\$192.95	\$163.90	\$151.60	\$140.45	\$132.60	\$127.15	\$125.00	\$123.85	\$120.55	\$119.65	\$119.15	\$116.85
0.8751-0.9374	\$284.95	\$203.50	\$174.45	\$162.15	\$152.15	\$144.30	\$138.80	\$136.20	\$133.60	\$133.25	\$132.95	\$132.70	\$132.50
0.9376-0.9687	\$299.90	\$214.25	\$186.60	\$174.35	\$165.45	\$157.50	\$152.15	\$149.50	\$146.90	\$145.65	\$144.65	\$144.35	\$143.55
0.9689-0.9999	\$305.35	\$218.10	\$189.10	\$176.55	\$168.25	\$160.20	\$155.00	\$152.40	\$149.60	\$148.30	\$147.45	\$146.90	\$146.30
1.0001-1.0624	\$327.25	\$268.30	\$240.50	\$235.85	\$230.75	\$222.40	\$221.20	\$211.60	\$202.10	\$200.90	\$196.30	\$194.65	\$193.00
1.0626-1.1249	\$345.65	\$287.10	\$258.15	\$253.85	\$247.70	\$244.20	\$237.20	\$226.75	\$216.30	\$205.85	\$204.80	\$203.90	\$202.70
1.1251-1.1874	\$369.10	\$335.60	\$285.05	\$278.05	\$274.65	\$268.60	\$264.55	\$253.85	\$243.40	\$233.05	\$222.60	\$212.25	\$206.25
1.1876-1.2499	\$389.70	\$355.00	\$304.15	\$296.95	\$292.95	\$286.80	\$281.70	\$270.35	\$259.10	\$247.85	\$236.60	\$225.40	\$214.15
1.2501-1.3749	\$443.20	\$380.75	\$351.70	\$345.80	\$342.65	\$334.95	\$332.50	\$320.50	\$308.55	\$296.55	\$293.50	\$290.40	\$287.90
1.3751-1.4999	\$490.25	\$430.60	\$402.60	\$396.45	\$391.05	\$386.35	\$380.75	\$367.35	\$353.95	\$340.65	\$336.95	\$332.10	\$326.40
1.5001-1.6249	\$691.15	\$587.50	\$572.75	\$558.45	\$544.50	\$530.80							
1.6251-1.7499	\$795.95	\$676.55	\$659.65	\$643.15	\$627.10	\$611.35							
1.7501-1.8749	\$914.10	\$776.95	\$757.55	\$738.55	\$720.20	\$702.15							
1.8751-1.9999	\$1070.15	\$909.65	\$886.90	\$864.70	\$843.10	\$821.95							

Please Call For Pricing > > >

Sizes above 2.0000 priced upon request.

Made in the USA

435 | Right Hand Spiral



435L | Left Hand Spiral



INTERMEDIATE SIZES

LIST PRICE EACH IN QUANTITIES OF:

Size Range	1	2	3-5	6-7	8-11	12-17	18-23	24-35	36-47	48-59	60-71	72-95	96+
0.0391-0.0624	\$137.65	\$89.60	\$70.10	\$47.90	\$40.75	\$34.45	\$31.75	\$28.55	\$26.35	\$25.25	\$24.60	\$24.45	\$24.20
0.0626-0.1093	\$144.90	\$92.70	\$71.55	\$49.10	\$43.95	\$37.50	\$32.25	\$29.55	\$27.20	\$25.65	\$25.05	\$24.60	\$23.80
0.1095-0.1249	\$142.00	\$90.80	\$67.20	\$42.90	\$37.65	\$34.35	\$28.20	\$25.65	\$25.30	\$24.85	\$24.45	\$24.00	\$23.85
0.1251-0.1405	\$152.25	\$99.50	\$76.00	\$53.80	\$48.75	\$42.70	\$37.40	\$34.80	\$32.25	\$30.95	\$30.40	\$29.70	\$29.05
0.1407-0.1561	\$150.00	\$97.75	\$74.25	\$51.90	\$46.80	\$40.90	\$35.75	\$33.10	\$31.30	\$30.55	\$29.85	\$29.15	\$28.50
0.1563-0.1718	\$152.25	\$95.10	\$74.40	\$53.80	\$48.75	\$42.70	\$37.40	\$34.80	\$32.25	\$31.75	\$31.30	\$30.95	\$30.40
0.1720-0.1874	\$146.05	\$91.20	\$73.80	\$50.15	\$44.95	\$40.25	\$35.45	\$32.75	\$32.35	\$31.85	\$31.40	\$30.60	\$30.25
0.1876-0.2030	\$156.45	\$104.20	\$81.80	\$60.25	\$55.15	\$48.95	\$43.80	\$41.25	\$36.90	\$36.50	\$35.60	\$35.45	\$35.15
0.2032-0.2187	\$156.45	\$104.20	\$80.90	\$59.25	\$54.20	\$48.05	\$42.70	\$40.25	\$37.65	\$35.45	\$35.05	\$34.60	\$34.35
0.2189-0.2343	\$157.05	\$105.10	\$81.55	\$59.95	\$54.90	\$48.75	\$43.50	\$40.95	\$38.40	\$36.85	\$36.20	\$35.95	\$35.75
0.2345-0.2499	\$157.05	\$105.10	\$77.55	\$55.65	\$50.50	\$44.60	\$40.10	\$36.90	\$36.50	\$36.40	\$35.75	\$35.25	\$35.05
0.2501-0.2968	\$156.00	\$106.10	\$83.60	\$63.55	\$58.65	\$52.40	\$47.50	\$44.95	\$42.45	\$41.25	\$40.15	\$39.85	\$39.15
0.2970-0.3124	\$151.70	\$101.75	\$79.25	\$58.70	\$53.75	\$47.85	\$42.70	\$40.35	\$40.15	\$39.90	\$39.30	\$39.15	\$39.10
0.3126-0.3437	\$158.50	\$108.60	\$86.00	\$66.15	\$61.30	\$54.80	\$50.00	\$47.50	\$44.95	\$42.90	\$42.45	\$42.10	\$41.80
0.3439-0.3593	\$159.15	\$109.20	\$86.60	\$66.80	\$61.90	\$55.65	\$50.75	\$48.20	\$45.70	\$43.55	\$43.05	\$42.70	\$42.45
0.3595-0.3749	\$154.55	\$104.55	\$82.05	\$61.60	\$56.75	\$50.75	\$45.80	\$43.15	\$42.95	\$42.70	\$42.55	\$42.40	\$42.25
0.3751-0.3905	\$161.75	\$111.85	\$89.55	\$69.80	\$64.90	\$59.40	\$54.40	\$52.00	\$49.55	\$46.90	\$46.60	\$46.25	\$45.90
0.3907-0.4218	\$163.85	\$113.90	\$91.30	\$72.00	\$67.05	\$60.55	\$55.75	\$53.20	\$50.85	\$48.55	\$48.10	\$47.85	\$47.70
0.4220-0.4374	\$160.75	\$110.85	\$88.20	\$68.70	\$63.80	\$57.40	\$52.40	\$49.90	\$49.45	\$48.80	\$48.40	\$47.90	\$47.65
0.4376-0.4843	\$168.20	\$118.20	\$95.60	\$76.80	\$71.90	\$65.20	\$57.80	\$56.60	\$55.45	\$53.70	\$53.20	\$52.65	\$52.20
0.4845-0.4999	\$164.20	\$114.25	\$91.70	\$72.30	\$67.55	\$60.85	\$53.45	\$53.10	\$52.85	\$52.45	\$52.20	\$52.05	\$51.85
0.5001-0.5311	\$188.30	\$132.95	\$106.10	\$81.15	\$78.40	\$70.95	\$64.40	\$62.75	\$61.30	\$60.40	\$59.85	\$59.45	\$59.05
0.5313-0.5624	\$211.60	\$151.15	\$120.20	\$89.50	\$89.00	\$80.85	\$75.30	\$72.30	\$69.45	\$68.10	\$67.25	\$66.60	\$65.95
0.5626-0.5937	\$216.05	\$160.75	\$129.65	\$100.00	\$98.55	\$91.55	\$85.75	\$83.10	\$80.00	\$78.75	\$77.80	\$77.20	\$76.50
0.5939-0.6249	\$238.30	\$170.20	\$130.00	\$98.95	\$100.40	\$91.80	\$86.15	\$83.40	\$80.40	\$79.05	\$78.20	\$77.55	\$76.80
0.6251-0.6874	\$246.80	\$174.80	\$142.85	\$111.00	\$113.35	\$108.75	\$98.70	\$95.75	\$92.90	\$91.35	\$90.45	\$90.00	\$89.20
0.6876-0.7187	\$257.00	\$183.55	\$151.70	\$132.00	\$122.75	\$114.15	\$108.40	\$105.55	\$102.65	\$101.15	\$100.15	\$99.50	\$98.95
0.7189-0.7499	\$261.90	\$187.00	\$155.30	\$136.90	\$127.05	\$118.15	\$112.30	\$109.45	\$106.45	\$105.05	\$104.05	\$103.75	\$102.50
0.7501-0.8124	\$277.45	\$198.20	\$166.55	\$149.90	\$132.10	\$130.45	\$124.60	\$121.60	\$118.70	\$117.40	\$116.45	\$115.85	\$115.10
0.8126-0.8437	\$293.20	\$209.45	\$177.70	\$153.25	\$143.30	\$142.95	\$136.90	\$134.00	\$131.10	\$129.60	\$128.70	\$128.20	\$127.40
0.8439-0.8749	\$297.20	\$212.35	\$180.30	\$158.15	\$146.50	\$145.90	\$139.90	\$136.85	\$134.20	\$132.60	\$131.65	\$131.10	\$130.55
0.8751-0.9374	\$313.45	\$223.85	\$191.85	\$167.35	\$160.05	\$158.70	\$152.45	\$149.90	\$146.95	\$145.50	\$144.60	\$144.35	\$143.15
0.9376-0.9687	\$333.90	\$240.00	\$205.30	\$190.75	\$181.95	\$173.30	\$167.35	\$164.45	\$161.55	\$160.20	\$159.10	\$158.75	\$157.90
0.9689-0.9999	\$335.90	\$239.90	\$208.00	\$193.70	\$185.10	\$176.20	\$170.45	\$167.60	\$164.55	\$163.15	\$162.15	\$161.55	\$160.90
1.0001-1.0624	\$360.00	\$290.40	\$278.45	\$266.55	\$256.25	\$249.85	\$243.30	\$232.85	\$222.35	\$218.90	\$215.50	\$214.60	\$211.25
1.0626-1.1249	\$380.20	\$316.25	\$302.95	\$292.45	\$282.00	\$272.50	\$260.95	\$249.45	\$237.85	\$233.55	\$229.15	\$227.20	\$222.85
1.1251-1.1874	\$406.00	\$348.45	\$334.50	\$324.05	\$313.50	\$302.05	\$290.70	\$279.15	\$267.75	\$256.30	\$244.85	\$233.40	\$222.00
1.1876-1.2499	\$428.55	\$369.30	\$360.00	\$346.40	\$334.55	\$322.15	\$309.75	\$297.40	\$285.05	\$272.65	\$266.15	\$247.90	\$235.50
1.2501-1.3749	\$487.55	\$416.45	\$404.25	\$391.00	\$377.75	\$372.30	\$358.55	\$350.20	\$337.00	\$326.15	\$317.85	\$304.65	\$296.25
1.3751-1.4999	\$539.25	\$472.45	\$458.90	\$449.85	\$440.40	\$433.45	\$418.85	\$404.15	\$389.40	\$374.70	\$360.00	\$350.20	\$337.80
1.5001-1.6249	\$739.60	\$628.55	\$612.90	\$597.55	\$582.55	\$568.05							
1.6251-1.7499	\$851.60	\$723.95	\$705.80	\$688.15	\$670.95	\$654.15							
1.7501-1.8749	\$978.05	\$831.40	\$810.50	\$790.20	\$770.50	\$751.30							
1.8751-1.9999	\$1145.10	\$973.35	\$948.95	\$925.25	\$902.10	\$879.55							

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12 Chucking Reamers - 433

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.0135 #80	.0505	.0885	.1255	.1635	.2015	.2390	.2770 J
.0140	.0510	.0890 #43	.1260 O/U	.1640	.2020	.2395	.2775
.0145 #79	.0515	.0895	.1265	.1645	.2025	.2400	.2780
.0150	.0520 #55	.0900	.1270	.1650	.2030	.2405	.2785
.0155	.0525	.0905	.1275	.1655	.2031 13/64	.2410	.2790
.0156 1/64	.0530	.0910	.1280	.1660 #19	.2035	.2415	.2795
.0160 #78	.0535	.0915	.1285 #30	.1665	.2040 #6	.2420 C	.2800
.0165	.0540	.0920	.1290	.1670	.2045	.2425	.2805
.0170	.0545	.0925	.1295	.1675	.2050	.2430	.2810 K
.0175	.0550 #54	.0930	.1300	.1680	.2055 #5	.2435	.2812 9/32
.0180 #77	.0555	.0935 #42	.1305	.1685	.2060	.2440	.2815
.0185	.0560	.0938 3/32	.1310	.1690	.2065	.2445	.2820
.0190	.0565	.0940	.1315	.1695 #18	.2070	.2450	.2825
.0195	.0570	.0945	.1320	.1700	.2075	.2455	.2830
.0200 #76	.0575	.0950	.1325	.1705	.2080	.2460 D	.2835
.0205	.0580	.0955	.1330	.1710	.2085	.2465	.2840
.0210 #75	.0585	.0960 #41	.1335	.1715	.2090 #4	.2470	.2845
.0215	.0590	.0965	.1340	.1719 11/64	.2095	.2475	.2850
.0220	.0591 1.5mm	.0970	.1345	.1720	.2100	.2480 D/P	.2855
.0225 #74	.0595 #53	.0975	.1350	.1725	.2105	.2485	.2860
.0230	.0600	.0980 #40	.1355	.1730 #17	.2110	.2490 O/U	.2865
.0235	.0605	.0984 2.5mm	.1360 #29	.1735	.2115	.2495 D/P	.2870
.0240 #73	.0610	.0985	.1365	.1740	.2120	.2500 E 1/4	.2875
.0245	.0615	.0990	.1370	.1745	.2125	.2505	.2880
.0250 #72	.0620	.0995 #39	.1375	.1750	.2130 #3	.2510 O/U	.2885
.0255	.0625 1/16	.1000	.1378 3.5mm	.1755	.2135	.2515	.2890
.0260 #71	.0630	.1005	.1380	.1760	.2140	.2520	.2895
.0265	.0635 #52	.1010	.1385	.1765	.2145	.2525	.2900 L
.0270	.0640	.1015 #38	.1390	.1770 #16	.2150	.2530	.2905
.0275	.0645	.1020	.1395	.1772 4.5mm	.2155	.2535	.2910
.0280 #70	.0650	.1025	.1400	.1775	.2160	.2540	.2915
.0285	.0655	.1030	.1405 #28	.1780	.2165 5.5mm	.2545	.2920
.0290	.0660	.1035	.1406 9/64	.1785	.2170	.2550	.2925
.0292 #69	.0665	.1040 #37	.1410	.1790	.2175	.2555	.2930
.0295	.0670 #51	.1045	.1415	.1795	.2180	.2559 6.5mm	.2935
.0300	.0675	.1050	.1420	.1800 #15	.2185	.2560	.2940
.0305	.0680	.1055	.1425	.1805	.2188 7/32	.2565	.2945
.0310 #68	.0685	.1060	.1430	.1810	.2190	.2570 F	.2950 M
.0312 1/32	.0690	.1065 #36	.1435	.1815	.2195	.2575	.2953 7.5mm
.0315	.0695	.1070	.1440 #27	.1820 #14	.2200	.2580	.2955
.0320 #67	.0700 #50	.1075	.1445	.1825	.2205	.2585	.2960
.0325	.0705	.1080	.1450	.1830	.2210 #2	.2590	.2965
.0330 #66	.0710	.1085	.1455	.1835	.2215	.2595	.2969 19/64
.0335	.0715	.1090	.1460	.1840	.2220	.2600	.2970
.0340	.0720	.1094 7/64	.1465	.1845	.2225	.2605	.2975
.0345	.0725	.1095	.1470 #26	.1850 #13	.2230	.2610 G	.2980
.0350 #65	.0730 #49	.1100 #35	.1475	.1855 D/P	.2235	.2615	.2985
.0355	.0735	.1105	.1480	.1860	.2240	.2620	.2990
.0360 #64	.0740	.1110 #34	.1485	.1865 O/U	.2245	.2625	.2995
.0365	.0745	.1115	.1490	.1870 D/P	.2250	.2630	.3000
.0370 #63	.0750	.1120	.1495 #25	.1875 3/16	.2255	.2635	.3005
.0375	.0755	.1125	.1500	.1880	.2260	.2640	.3010
.0380 #62	.0760 #48	.1130 #33	.1505	.1885 O/U	.2265	.2645	.3015
.0385	.0765	.1135	.1510	.1890 #12	.2270	.2650	.3020 N
.0390 #61	.0770	.1140	.1515	.1895	.2275	.2655	.3025
.0394 1.0mm	.0775	.1145	.1520 #24	.1900	.2280 #1	.2656 17/64	.3030
.0395	.0780	.1150	.1525	.1905	.2285	.2660 H	.3035
.0400 #60	.0781 5/64	.1155	.1530	.1910 #11	.2290	.2665	.3040
.0405	.0785 #47	.1160 #32	.1535	.1915	.2295	.2670	.3045
.0410 #59	.0787 2.0mm	.1165	.1540 #23	.1920	.2300	.2675	.3050
.0415	.0790	.1170	.1545	.1925	.2305	.2680	.3055
.0420 #58	.0795	.1175	.1550	.1930	.2310	.2685	.3060
.0425	.0800	.1180	.1555	.1935 #10	.2315	.2690	.3065
.0430 #57	.0805	.1181 3.0mm	.1560	.1940	.2320	.2695	.3070
.0435	.0810 #46	.1185	.1562 5/32	.1945	.2325	.2700	.3075
.0440	.0815	.1190	.1565	.1950	.2330	.2705	.3080
.0445	.0820 #45	.1195	.1570 #22	.1955	.2335	.2710	.3085
.0450	.0825	.1200 #31	.1575 4.0mm	.1960 #9	.2340 A	.2715	.3090
.0455	.0830	.1205	.1580	.1965	.2344 15/64	.2720 I	.3095
.0460	.0835	.1210	.1585	.1969 5.0mm	.2345	.2725	.3100
.0465 #56	.0840	.1215	.1590 #21	.1970	.2350	.2730	.3105 D/P
.0469 3/64	.0845	.1220	.1595	.1975	.2355	.2735	.3110
.0470	.0850	.1225	.1600	.1980	.2360	.2740	.3115 O/U
.0475	.0855	.1230 D/P	.1605	.1985	.2362 6.0mm	.2745	.3120 D/P
.0480	.0860 #44	.1235	.1610 #20	.1990 #8	.2365	.2750	.3125 5/16
.0485	.0865	.1240 O/U	.1615	.1995	.2370	.2755	.3130
.0490	.0870	.1245	.1620	.2000	.2375	.2756 7.0mm	.3135 O/U
.0495	.0875	.1247 D/P	.1625	.2005	.2380 B	.2760	.3140
.0500	.0880	.1250 1/8	.1630	.2010 #7	.2385	.2765	.3145

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.3150 8.0mm	.3530	.3910	.4285	.4665	.5010 O/U	.6885 O/U	.9345
.3155	.3535	.3915	.4290	.4670	.5015	.6890 17.5mm	.9350
.3160 O	.3540	.3920	.4295	.4675	.5020	.6895	.9355
.3165	.3543 9.0mm	.3925	.4300	.4680	.5025	.6900	.9360
.3170	.3545	.3930	.4305	.4685	.5030	.6905	.9365 O/U
.3175	.3550	.3935	.4310	.4688 15/32	.5035	.7031 45/64	.9370
.3180	.3555	.3937 10.0mm	.4315	.4690	.5040	.7087 18mm	.9375 15/16
.3185	.3560	.3940	.4320	.4695	.5045	.7188 23/32	.9380
.3190	.3565	.3945	.4325	.4700	.5050	.7283 18.5mm	.9385 O/U
.3195	.3570	.3950	.4330	.4705	.5060	.7344 47/64	.9390
.3200	.3575	.3955	.4331 11.0mm	.4710	.5070	.7470	.9395
.3205	.3580 T	.3960	.4335	.4715	.5080	.7475	.9400
.3210	.3585	.3965	.4340	.4720	.5090	.7480 19mm	.9405
.3215	.3590	.3970 X	.4345	.4724 12.0mm	.5100	.7485	.9449 24mm
.3220	.3594 23/64	.3975	.4350	.4725	.5118 13mm	.7490 O/U	.9531 61/64
.3225	.3595	.3980	.4355 D/P	.4730	.5150	.7495	.9646 24.5mm
.3230 P	.3600	.3985	.4360	.4735	.5156 33/64	.7500 3/4	.9688 31/32
.3235	.3605	.3990	.4365 O/U	.4740	.5160	.7505	.9843 25mm
.3240	.3610	.3995	.4370 D/P	.4745	.5200	.7510 O/U	.9844 63/64
.3245	.3615	.4000	.4375 7/16	.4750	.5312 17/32	.7515	.9970
.3250	.3620	.4005	.4380	.4755	.5315 13.5mm	.7520	.9975
.3255	.3625	.4010	.4385 O/U	.4760	.5469 35/64	.7525	.9980
.3260	.3630	.4015	.4390	.4765	.5512 14mm	.7530	.9985
.3265	.3635	.4020	.4395	.4770	.5600	.7540	.9990 O/U
.3270	.3640	.4025	.4400	.4775	.5605	.7550	.9995
.3275	.3645	.4030	.4405	.4780	.5610	.7570	1.0000 1"
.3280	.3650	.4035	.4410	.4785	.5615 O/U	.7600	1.0005
.3281 21/64	.3655	.4040 Y	.4415	.4790	.5620	.7656 49/64	1.0010 O/U
.3285	.3660	.4045	.4420	.4795	.5625 9/16	.7677 19.5mm	1.0015
.3290	.3665	.4050	.4425	.4800	.5630	.7812 25/32	1.0020
.3295	.3670	.4055	.4430	.4805	.5635 O/U	.7874 20mm	1.0025
.3300	.3675	.4060	.4435	.4810	.5640	.7969 51/64	1.0030
.3305	.3680 U	.4062 13/32	.4440	.4815	.5645	.8071 20.5mm	1.0039 25.5mm
.3310	.3685	.4065	.4445	.4820	.5650	.8095	1.0236 26mm
.3315	.3690	.4070	.4450	.4825	.5655	.8100	1.0312 1-1/32
.3320 Q	.3695	.4075	.4455	.4830	.5709 14.5mm	.8105	1.0625 1-1/16
.3325	.3700	.4080	.4460	.4835	.5781 37/64	.8110	1.0938 1-3/32
.3330	.3705	.4085	.4465	.4840	.5790	.8115 O/U	1.1024 28mm
.3335	.3710	.4090	.4470	.4844 31/64	.5906 15mm	.8120	1.1250 1-1/8
.3340	.3715	.4095	.4475	.4845	.5938 19/32	.8125 13/16	1.1562 1-5/32
.3345	.3720	.4100	.4480	.4850	.6094 39/64	.8130	1.1811 30mm
.3346 8.5mm	.3725	.4105	.4485	.4855	.6102 15.5mm	.8135 O/U	1.1875 1-3/16
.3350	.3730 D/P	.4110	.4490	.4860	.6200	.8140	1.2188 1-7/32
.3355	.3735	.4115	.4495	.4865	.6220	.8145	1.2500 1-1/4
.3360	.3740 O/U 9.5mm	.4120	.4500	.4870	.6225	.8150	1.2598 32mm
.3365	.3745 D/P	.4125	.4505	.4875	.6230	.8155	1.2812 1-9/32
.3370	.3750 3/8	.4130 Z	.4510	.4880	.6235	.8268 21mm	1.3125 1-5/16
.3375	.3755	.4134 10.5mm	.4515	.4885	.6240 O/U	.8281 53/64	1.3386 34mm
.3380	.3760 O/U	.4135	.4520	.4890	.6245	.8438 27/32	1.3438 1-11/32
.3385	.3765	.4140	.4525	.4895	.6250 5/8	.8465 21.5mm	1.3750 1-3/8
.3390 R	.3770 V	.4145	.4528 11.5mm	.4900	.6255	.8594 55/64	1.4062 1-13/32
.3395	.3775	.4150	.4530	.4905	.6260 O/U	.8661 22mm	1.4173 36mm
.3400	.3780	.4155	.4531 29/64	.4910	.6265	.8720	1.4375 1-7/16
.3405	.3785	.4160	.4535	.4915	.6270	.8725	1.4688 1-15/32
.3410	.3790	.4165	.4540	.4920	.6275	.8730	1.4961 38mm
.3415	.3795	.4170	.4545	.4921 12.5mm	.6280	.8735	1.5000 1-1/2
.3420	.3800	.4175	.4550	.4925	.6299 16.0mm	.8740 O/U	1.5312 1-17/32
.3425	.3805	.4180	.4555	.4930	.6300	.8745	1.5625 1-9/16
.3430	.3810	.4185	.4560	.4935	.6330	.8750 7/8	1.5748 40mm
.3435	.3815	.4190	.4565	.4940	.6350	.8755	1.5938 1-19/32
.3438 11/32	.3820	.4195	.4570	.4945	.6406 41/64	.8760 O/U	1.6250 1-5/8
.3440	.3825	.4200	.4575	.4950	.6496 16.5mm	.8765	1.6562 1-21/32
.3445	.3830	.4205	.4580	.4955	.6562 21/32	.8770	1.6875 1-11/16
.3450	.3835	.4210	.4585	.4960	.6693 17.0mm	.8775	1.7188 1-23/32
.3455	.3840	.4215	.4590	.4965	.6719 43/64	.8780	1.7500 1-3/4
.3460	.3845	.4219 27/64	.4595	.4970	.6845	.8858 22.5mm	1.7812 1-25/32
.3465	.3850	.4220	.4600	.4975	.6850	.8906 57/64	1.8125 1-13/16
.3470	.3855	.4225	.4605	.4980 D/P	.6855		1.8438 1-27/32
.3475	.3860 W	.4230	.4610	.4985	.6860	.9055 23mm	1.8750 1-7/8
.3480 S	.3865	.4235	.4615	.4990 O/U	.6865 O/U	.9062 29/32	1.9062 1-29/32
.3485	.3870	.4240	.4620	.4995 D/P	.6870	.9219 59/64	1.9375 1-15/16
.3490	.3875	.4245	.4625	.5000 1/2	.6875 11/16	.9252 23.5mm	1.9688 1-31/32
.3495	.3880	.4250	.4630	.5005	.6880	.9340	2.0000 2
.3500	.3885	.4255	.4635				
.3505	.3890	.4260	.4640				
.3510	.3895	.4265	.4645				
.3515	.3900	.4270	.4650				
.3520	.3905	.4275	.4655				
.3525	.3906 25/64	.4280	.4660				



14 Cobalt Chucking Reamers | Straight Shank

M-42, 8% Cobalt



1433
Straight
Flute



1435
Right Hand
Spiral

Decimal	Wire	Letter	Fraction	Over/ Under	Metric	Flute Length	# of Flutes	Overall Length	Shank Diameter	1433 List Price	1435 List Price
0.0135	#80					3/8	2	3/4	.0135	\$34.20	—
0.0145	#79					3/8	2	3/4	.0145	\$34.20	—
0.0156			1/64			3/8	2	3/4	.0156	\$34.20	—
0.0160	#78					3/8	2	7/8	.0160	\$34.20	—
0.0180	#77					3/8	2	7/8	.0180	\$34.20	—
0.0200	#76					3/8	2	7/8	.0200	\$34.20	—
0.0210	#75					1/2	3	1	.0210	\$34.20	—
0.0225	#74					1/2	3	1	.0225	\$34.20	—
0.0240	#73					1/2	3	1-1/8	.0240	\$34.20	—
0.0250	#72					1/2	3	1-1/8	.0250	\$34.20	—
0.0260	#71					1/2	3	1-1/4	.0260	\$34.20	—
0.0280	#70					1/2	3	1-1/4	.0280	\$34.20	—
0.0292	#69					1/2	3	1-3/8	.0292	\$34.20	—
0.0310	#68					1/2	3	1-3/8	.0310	\$34.20	—
0.0312			1/32			1/2	3	1-3/8	.0312	\$28.10	—
0.0320	#67					1/2	3	1-3/8	.0320	\$28.10	—
0.0330	#66					1/2	3	1-3/8	.0330	\$28.10	—
0.0350	#65					1/2	3	1-1/2	.0350	\$28.10	—
0.0360	#64					1/2	3	1-1/2	.0360	\$28.10	—
0.0370	#63					1/2	3	1-1/2	.0370	\$28.10	—
0.0380	#62					1/2	3	1-1/2	.0380	\$28.10	—
0.0390	#61					1/2	3	1-1/2	.0390	\$28.10	—
0.0394					1.0mm	1/2	4	2-1/2	.0394	\$27.65	\$32.50
0.0400	#60					1/2	4	2-1/2	.0390	\$27.65	\$32.50
0.0410	#59					1/2	4	2-1/2	.0390	\$27.65	\$32.50
0.0420	#58					1/2	4	2-1/2	.0390	\$27.65	\$32.50
0.0430	#57					1/2	4	2-1/2	.0390	\$27.65	\$32.50
0.0465	#56					1/2	4	2-1/2	.0455	\$27.65	\$32.50
0.0469			3/64			1/2	4	2-1/2	.0455	\$27.65	\$32.50
0.0520	#55					1/2	4	2-1/2	.0510	\$27.65	\$32.50
0.0550	#54					1/2	4	2-1/2	.0510	\$27.65	\$32.50
0.0591					1.5mm	1/2	4	2-1/2	.0510	\$27.65	\$32.50
0.0595	#53					1/2	4	2-1/2	.0585	\$27.65	\$32.50
0.0625			1/16			1/2	4	2-1/2	.0585	\$27.65	\$32.50
0.0635	#52					1/2	4	2-1/2	.0585	\$27.65	\$32.50
0.0670	#51					3/4	4	3	.0660	\$22.30	\$26.20
0.0700	#50					3/4	4	3	.0660	\$22.30	\$26.20
0.0730	#49					3/4	4	3	.0660	\$22.30	\$26.20
0.0760	#48					3/4	4	3	.0720	\$22.30	\$26.20
0.0781			5/64			3/4	4	3	.0720	\$22.30	\$26.20
0.0785	#47					3/4	4	3	.0720	\$22.30	\$26.20
0.0787					2.0mm	3/4	4	3	.0720	\$22.30	\$26.20
0.0810	#46					3/4	4	3	.0771	\$22.30	\$26.20
0.0820	#45					3/4	4	3	.0771	\$22.30	\$26.20
0.0860	#44					3/4	4	3	.0810	\$22.30	\$26.20
0.0890	#43					3/4	4	3	.0810	\$22.30	\$26.20
0.0935	#42					3/4	4	3	.0880	\$22.30	\$26.20
0.0938			3/32			3/4	4	3	.0880	\$22.30	\$26.20
0.0960	#41					7/8	4	3-1/2	.0928	\$22.45	\$26.45
0.0980	#40					7/8	4	3-1/2	.0928	\$22.45	\$26.45
0.0984					2.5mm	7/8	4	3-1/2	.0928	\$22.45	\$26.45
0.0995	#39					7/8	4	3-1/2	.0928	\$22.45	\$26.45
0.1015	#38					7/8	4	3-1/2	.0950	\$22.45	\$26.45
0.1040	#37					7/8	4	3-1/2	.0950	\$22.45	\$26.45
0.1065	#36					7/8	4	3-1/2	.1030	\$22.45	\$26.45
0.1094			7/64			7/8	4	3-1/2	.1030	\$23.10	\$27.30
0.1100	#35					7/8	4	3-1/2	.1030	\$23.10	\$27.30
0.1110	#34					7/8	4	3-1/2	.1055	\$23.10	\$27.30
0.1130	#33					7/8	4	3-1/2	.1055	\$23.10	\$27.30
0.1160	#32					7/8	4	3-1/2	.1120	\$23.10	\$27.30
0.1181					3.0mm	7/8	4	3-1/2	.1120	\$22.00	\$25.95
0.1200	#31					7/8	4	3-1/2	.1120	\$23.10	\$27.30
0.1240					o/u	7/8	4	3-1/2	.1190	\$22.00	\$25.95
0.1250			1/8			7/8	4	3-1/2	.1190	\$21.00	\$24.75
0.1260					o/u	7/8	4	3-1/2	.1190	\$22.00	\$25.95
0.1285	#30					7/8	4	3-1/2	.1190	\$23.10	\$27.30

Decimal	Wire	Letter	Fraction	Over/ Under	Metric	Flute Length	# of Flutes	Overall Length	Shank Diameter	1433 List Price	1435 List Price
0.1360	#29					1	4	4	.1275	\$27.65	\$32.55
0.1378					3.5mm	1	4	4	.1350	\$27.65	\$32.55
0.1405	#28					1	4	4	.1350	\$27.65	\$32.55
0.1406			9/64			1	4	4	.1350	\$27.65	\$32.55
0.1440	#27					1	4	4	.1350	\$27.65	\$32.55
0.1470	#26					1	4	4	.1430	\$27.65	\$32.55
0.1495	#25					1	4	4	.1430	\$27.65	\$32.55
0.1520	#24					1	4	4	.1460	\$27.65	\$32.55
0.1540	#23					1	4	4	.1460	\$27.65	\$32.55
0.1562			5/32			1	4	4	.1510	\$24.80	\$32.55
0.1570	#22					1	6	4	.1510	\$27.65	\$32.55
0.1575					4.0mm	1	6	4	.1510	\$27.65	\$32.55
0.1590	#21					1-1/8	6	4-1/2	.1530	\$29.55	\$34.75
0.1610	#20					1-1/8	6	4-1/2	.1530	\$29.55	\$34.75
0.1660	#19					1-1/8	6	4-1/2	.1595	\$29.55	\$34.75
0.1695	#18					1-1/8	6	4-1/2	.1595	\$29.55	\$34.75
0.1719			11/64			1-1/8	6	4-1/2	.1645	\$29.55	\$34.75
0.1730	#17					1-1/8	6	4-1/2	.1645	\$29.55	\$34.75
0.1770	#16					1-1/8	6	4-1/2	.1704	\$29.55	\$34.75
0.1772					4.5mm	1-1/8	6	4-1/2	.1704	\$29.55	\$34.75
0.1800	#15					1-1/8	6	4-1/2	.1755	\$29.55	\$34.75
0.1820	#14					1-1/8	6	4-1/2	.1755	\$29.55	\$34.75
0.1850	#13					1-1/8	6	4-1/2	.1805	\$29.55	\$34.75
0.1865				o/u		1-1/8	6	4-1/2	.1805	\$28.15	\$33.10
0.1875			3/16			1-1/8	6	4-1/2	.1805	\$26.80	\$31.55
0.1885				o/u		1-1/8	6	4-1/2	.1805	\$28.15	\$33.10
0.1890	#12					1-1/8	6	4-1/2	.1805	\$29.55	\$34.75
0.1910	#11					1-1/4	6	5	.1860	\$34.00	\$37.20
0.1935	#10					1-1/4	6	5	.1860	\$34.00	\$37.20
0.1960	#9					1-1/4	6	5	.1895	\$34.00	\$37.20
0.1969					5.0mm	1-1/4	6	5	.1895	\$34.00	\$37.20
0.1990	#8					1-1/4	6	5	.1895	\$34.00	\$37.20
0.2010	#7					1-1/4	6	5	.1945	\$34.00	\$37.20
0.2031			13/64			1-1/4	6	5	.1945	\$34.00	\$37.20
0.2040	#6					1-1/4	6	5	.1945	\$34.00	\$37.20
0.2055	#5					1-1/4	6	5	.2016	\$34.00	\$37.20
0.2090	#4					1-1/4	6	5	.2016	\$34.00	\$37.20
0.2130	#3					1-1/4	6	5	.2075	\$34.00	\$37.20
0.2165					5.5mm	1-1/4	6	5	.2075	\$34.00	\$37.20
0.2188			7/32			1-1/4	6	5	.2075	\$34.00	\$37.20
0.2210	#2					1-1/2	6	6	.2173	\$34.90	\$38.15
0.2280	#1					1-1/2	6	6	.2173	\$34.90	\$38.15
0.2340	A					1-1/2	6	6	.2265	\$34.90	\$38.15
0.2344			15/64			1-1/2	6	6	.2265	\$34.90	\$38.15
0.2362					6.0mm	1-1/2	6	6	.2265	\$35.15	\$40.15
0.2380	B					1-1/2	6	6	.2329	\$35.15	\$40.15
0.2420	C					1-1/2	6	6	.2329	\$35.15	\$40.15
0.2460	D					1-1/2	6	6	.2329	\$31.90	\$36.50
0.2490				o/u		1-1/2	6	6	.2405	\$31.35	\$36.15
0.2500	E		1/4			1-1/2	6	6	.2405	\$29.85	\$34.75
0.2510				o/u		1-1/2	6	6	.2405	\$31.35	\$36.15
0.2559					6.5mm	1-1/2	6	6	.2405	\$35.15	\$40.15
0.2570	F					1-1/2	6	6	.2485	\$35.15	\$40.15
0.2610	G					1-1/2	6	6	.2485	\$35.15	\$40.15
0.2656			17/64			1-1/2	6	6	.2485	\$47.65	\$49.55
0.2660	H					1-1/2	6	6	.2485	\$47.65	\$49.55
0.2720	I					1-1/2	6	6	.2485	\$47.65	\$49.55
0.2756					7.0mm	1-1/2	6	6	.2485	\$47.65	\$49.55
0.2770	J					1-1/2	6	6	.2485	\$47.65	\$49.55
0.2810	K					1-1/2	6	6	.2485	\$47.65	\$49.55
0.2812			9/32			1-1/2	6	6	.2485	\$45.25	\$47.10
0.2900	L					1-1/2	6	6	.2792	\$47.65	\$49.55
0.2950	M					1-1/2	6	6	.2792	\$47.65	\$49.55
0.2953					7.5mm	1-1/2	6	6	.2792	\$47.65	\$49.55
0.2969			19/64			1-1/2	6	6	.2792	\$47.65	\$49.55
0.3020	N					1-1/2	6	6	.2792	\$47.65	\$49.55



1433
Straight
Flute



1435
Right Hand
Spiral





16 Cobalt Chucking Reamers | Straight Shank
M-42, 8% COBALT



1433
 Straight
 Flute



1435
 Right Hand
 Spiral

Decimal	Wire	Letter	Fraction	Over/ Under	Metric	Flute Length	# of Flutes	Overall Length	Shank Diameter	1433 List Price	1435 List Price
0.3115				o/u		1-1/2	6	6	.2792	\$45.35	\$47.10
0.3125			5/16			1-1/2	6	6	.2792	\$43.20	\$44.90
0.3135				o/u		1-1/2	6	6	.2792	\$45.35	\$47.10
0.3150					8.0mm	1-1/2	6	6	.2792	\$45.35	\$47.10
0.3160		O				1-1/2	6	6	.2792	\$47.65	\$49.55
0.3230		P				1-1/2	6	6	.2792	\$51.30	\$53.35
0.3281			21/64			1-1/2	6	6	.2792	\$51.30	\$53.35
0.3320		Q				1-1/2	6	6	.2792	\$51.30	\$53.35
0.3346					8.5mm	1-1/2	6	6	.2792	\$51.30	\$53.35
0.3390		R				1-1/2	6	6	.2792	\$51.30	\$53.35
0.3438			11/32			1-1/2	6	6	.2792	\$51.30	\$53.35
0.3480		S				1-3/4	6	7	.3105	\$52.20	\$54.15
0.3543					9.0mm	1-3/4	6	7	.3105	\$52.20	\$54.15
0.3580		T				1-3/4	6	7	.3105	\$52.20	\$54.15
0.3594			23/64			1-3/4	6	7	.3105	\$52.20	\$54.15
0.3680		U			9.5mm	1-3/4	6	7	.3105	\$52.20	\$54.15
0.3740				o/u		1-3/4	6	7	.3105	\$49.80	\$51.55
0.3750			3/8			1-3/4	6	7	.3105	\$47.40	\$49.10
0.3760				o/u		1-3/4	6	7	.3105	\$49.80	\$51.55
0.3770		V				1-3/4	6	7	.3105	\$63.60	\$68.15
0.3860		W				1-3/4	6	7	.3105	\$63.60	\$68.15
0.3906			25/64			1-3/4	6	7	.3105	\$63.60	\$68.15
0.3937					10.0mm	1-3/4	6	7	.3105	\$63.60	\$68.15
0.3970		X				1-3/4	6	7	.3105	\$63.60	\$68.15
0.4040		Y				1-3/4	6	7	.3105	\$63.60	\$68.15
0.4062			13/32			1-3/4	6	7	.3105	\$63.60	\$68.15
0.4130		Z				1-3/4	6	7	.3730	\$63.60	\$68.15
0.4134					10.5mm	1-3/4	6	7	.3730	\$63.60	\$68.15
0.4219			27/64			1-3/4	6	7	.3730	\$63.60	\$68.15
0.4331					11.0mm	1-3/4	6	7	.3730	\$63.60	\$68.15
0.4365				o/u		1-3/4	6	7	.3730	\$60.55	\$64.85
0.4375			7/16			1-3/4	6	7	.3730	\$58.95	\$61.85
0.4385				o/u		1-3/4	6	7	.3730	\$60.55	\$64.85
0.4528					11.5mm	1-3/4	6	7	.3730	\$72.90	\$78.10
0.4531			29/64			1-3/4	6	7	.3730	\$72.90	\$78.10
0.4688			15/32			1-3/4	6	7	.3730	\$72.90	\$78.10
0.4724					12.0mm	2	6	8	.4355	\$72.90	\$78.10
0.4844			31/64			2	6	8	.4355	\$72.90	\$78.10
0.4921					12.5mm	2	6	8	.4355	\$72.90	\$78.10
0.4990				o/u		2	6	8	.4355	\$69.45	\$74.35
0.5000			1/2			2	6	8	.4355	\$66.10	\$70.85
0.5010				o/u		2	6	8	.4355	\$69.45	\$74.35
0.5118					13.0mm	2	6	8	.4355	—	—
0.5156			33/64			2	6	8	.4355	—	—
0.5312			17/32			2	6	8	.4355	\$81.80	\$98.20
0.5315					13.5mm	2	6	8	.4355	—	—
0.5469			35/64			2	8	8	.4355	—	—
0.5512					14.0mm	2	8	8	.4355	—	—
0.5615				o/u		2	8	8	.4355	—	—
0.5625			9/16			2	8	8	.4355	\$84.30	\$90.40
0.5635				o/u		2	8	8	.4355	—	—
0.5709					14.5mm	2	8	8	.4355	—	—
0.5781			37/64			2	8	8	.4355	—	—
0.5906					15.0mm	2	8	8	.4355	—	—
0.5938			19/32			2	8	8	.4355	\$84.30	\$90.40
0.6094			39/64			2-1/4	8	9	.5615	—	—
0.6102					15.5mm	2-1/4	8	9	.5615	—	—
0.6240				o/u		2-1/4	8	9	.5615	—	—
0.6250			5/8			2-1/4	8	9	.5615	\$98.35	\$105.50
0.6260				o/u		2-1/4	8	9	.5615	—	—
0.6299					16.0mm	2-1/4	8	9	.5615	—	—
0.6406			41/64			2-1/4	8	9	.5615	—	—
0.6496					16.5mm	2-1/4	8	9	.5615	—	—
0.6562			21/32			2-1/4	8	9	.5615	\$114.20	\$122.30
0.6693					17.0mm	2-1/4	8	9	.5615	—	—
0.6719			43/64			2-1/4	8	9	.5615	—	—

Decimal	Wire	Letter	Fraction	Over/ Under	Metric	Flute Length	# of Flutes	Overall Length	Shank Diameter	1433 List Price	1435 List Price
0.6865				o/u		2-1/4	8	9	.5615	—	—
0.6875			11/16			2-1/4	8	9	.5615	\$114.20	\$122.30
0.6885				o/u		2-1/4	8	9	.5615	—	—
0.6890					17.5mm	2-1/4	8	9	.5615	—	—
0.7031			45/64			2-1/4	8	9	.5615	—	—
0.7087					18.0mm	2-1/4	8	9	.5615	—	—
0.7188			23/32			2-1/4	8	9	.5615	\$127.45	\$136.55
0.7283					18.5mm	2-1/2	8	9-1/2	.6240	—	—
0.7344			47/64			2-1/2	8	9-1/2	.6240	—	—
0.7480					19.0mm	2-1/2	8	9-1/2	.6240	—	—
0.7490				o/u		2-1/2	8	9-1/2	.6240	—	—
0.7500			3/4			2-1/2	8	9-1/2	.6240	\$128.20	\$137.35
0.7510				o/u		2-1/2	8	9-1/2	.6240	—	—
0.7656			49/64			2-1/2	8	9-1/2	.6240	—	—
0.7677					19.5mm	2-1/2	8	9-1/2	.6240	—	—
0.7812			25/32			2-1/2	8	9-1/2	.6240	\$138.25	\$148.15
0.7874					20.0mm	2-1/2	8	9-1/2	.6240	—	—
0.7969			51/64			2-1/2	8	9-1/2	.6240	—	—
0.8071					20.5mm	2-1/2	8	9-1/2	.6240	—	—
0.8115				o/u		2-1/2	8	9-1/2	.6240	—	—
0.8125			13/16			2-1/2	8	9-1/2	.6240	\$138.25	\$148.15
0.8135				o/u		2-1/2	8	9-1/2	.6240	—	—
0.8268					21.0mm	2-1/2	8	9-1/2	.6240	—	—
0.8281			53/64			2-1/2	8	9-1/2	.6240	—	—
0.8438			27/32			2-1/2	8	9-1/2	.6240	\$163.55	\$175.25
0.8465					21.5mm	2-5/8	8	10	.7490	—	—
0.8594			55/64			2-5/8	8	10	.7490	—	—
0.8661					22.0mm	2-5/8	8	10	.7490	—	—
0.8740				o/u		2-5/8	8	10	.7490	—	—
0.8750			7/8			2-5/8	8	10	.7490	\$167.35	\$179.35
0.8760				o/u		2-5/8	8	10	.7490	—	—
0.8858					22.5mm	2-5/8	8	10	.7490	—	—
0.8906			57/64			2-5/8	8	10	.7490	—	—
0.9055					23.0mm	2-5/8	8	10	.7490	—	—
0.9062			29/32			2-5/8	8	10	.7490	\$180.40	\$193.30
0.9219			59/64			2-5/8	8	10	.7490	—	—
0.9252					23.5mm	2-5/8	8	10	.7490	—	—
0.9365				o/u		2-5/8	8	10	.7490	—	—
0.9375			15/16			2-5/8	8	10	.7490	\$180.40	\$193.30
0.9385				o/u		2-5/8	8	10	.7490	—	—
0.9449					24.0mm	2-5/8	8	10	.7490	—	—
0.9531			61/64			2-5/8	8	10	.7490	—	—
0.9646					24.5mm	2-5/8	8	10	.7490	—	—
0.9688			31/32			2-5/8	8	10	.7490	\$202.00	\$216.45
0.9843					25.0mm	2-3/4	8	10-1/2	.8740	—	—
0.9844			63/64			2-3/4	8	10-1/2	.8740	—	—
0.9990				o/u		2-3/4	8	10-1/2	.8740	—	—
1.0000			1			2-3/4	8	10-1/2	.8740	\$203.90	\$218.15
1.0010				o/u		2-3/4	8	10-1/2	.8740	—	—
1.0312			1-1/32			2-3/4	8	10-1/2	.8740	—	—
1.0625			1-1/16			2-3/4	8	10-1/2	.8740	\$226.00	—
1.0938			1-3/32			2-7/8	8	11	.8740	—	—
1.1250			1-1/8			2-7/8	8	11	.8740	\$240.25	—
1.1562			1-5/32			2-7/8	10	11	.9990	—	—
1.1875			1-3/16			2-7/8	10	11	.9990	\$281.35	—
1.2188			1-7/32			3	10	11-1/2	.9990	—	—
1.2500			1-1/4			3	10	11-1/2	.9990	\$298.15	—
1.2812			1-9/32			3	10	11-1/2	.9990	—	—
1.3125			1-5/16			3	10	11-1/2	.9990	\$347.80	—
1.3438			1-11/32			3-1/4	10	12	.9990	—	—
1.3750			1-3/8			3-1/4	10	12	.9990	\$365.55	—
1.4062			1-13/32			3-1/4	10	12	1.2490	—	—
1.4375			1-7/16			3-1/4	10	12	1.2490	\$392.00	—
1.4688			1-15/32			3-1/2	10	12-1/2	1.2490	—	—
1.5000			1-1/2			3-1/2	10	12-1/2	1.2490	\$422.05	—



1433
Straight
Flute



1435
Right Hand
Spiral





18 Cobalt Chucking Reamers | Straight Shank

M-42, 8% COBALT

1433 | Straight Flute



INTERMEDIATE SIZES

LIST PRICE EACH IN QUANTITIES OF:

Size Range	1	2	3-5	6-7	8-11	12-17	18-23	24-35	36-47	48-59	60-71	72-95	96+
0.0100-0.0195	\$230.70	\$128.55	\$95.20	\$68.35	\$59.25	\$50.15	\$44.00	\$40.85	\$37.95	\$36.45	\$35.55	\$34.65	\$33.15
0.0196-0.0290	\$220.95	\$116.80	\$86.60	\$62.15	\$53.85	\$45.60	\$39.95	\$37.30	\$34.50	\$34.45	\$34.30	\$34.25	\$34.20
0.0291-0.0390	\$200.90	\$106.20	\$78.75	\$56.50	\$49.00	\$43.75	\$36.40	\$33.90	\$31.35	\$30.15	\$29.45	\$28.85	\$28.20
0.0391-0.0624	\$192.55	\$104.30	\$76.80	\$54.30	\$46.85	\$40.40	\$34.25	\$31.70	\$29.20	\$27.95	\$27.50	\$27.25	\$26.80
0.0626-0.1093	\$184.25	\$102.25	\$74.85	\$52.15	\$44.65	\$37.00	\$32.05	\$29.55	\$27.00	\$25.75	\$25.60	\$25.55	\$25.30
0.1095-0.1249	\$180.00	\$98.05	\$70.55	\$47.50	\$39.95	\$32.45	\$27.45	\$24.85	\$24.45	\$24.05	\$23.80	\$23.40	\$23.10
0.1251-0.1405	\$188.10	\$106.15	\$78.40	\$56.50	\$49.00	\$41.40	\$36.40	\$33.90	\$31.35	\$30.15	\$29.45	\$28.85	\$28.20
0.1407-0.1561	\$186.60	\$104.65	\$77.20	\$54.75	\$47.20	\$39.65	\$34.65	\$32.15	\$29.60	\$28.35	\$27.95	\$27.85	\$27.65
0.1563-0.1718	\$188.30	\$106.30	\$78.85	\$56.55	\$49.10	\$41.55	\$36.50	\$34.00	\$31.45	\$30.15	\$30.00	\$29.70	\$29.55
0.1720-0.1874	\$186.90	\$105.05	\$77.55	\$55.20	\$49.00	\$40.10	\$35.10	\$32.55	\$30.10	\$30.00	\$29.80	\$29.60	\$29.60
0.1876-0.2030	\$194.60	\$112.60	\$85.15	\$63.50	\$56.00	\$48.40	\$43.45	\$40.90	\$38.40	\$37.05	\$36.40	\$35.90	\$35.70
0.2032-0.2187	\$194.60	\$112.60	\$85.15	\$63.50	\$56.00	\$48.40	\$43.45	\$40.90	\$38.40	\$37.05	\$36.40	\$35.90	\$35.70
0.2189-0.2343	\$184.55	\$106.50	\$80.45	\$59.70	\$52.55	\$45.35	\$40.60	\$38.20	\$38.00	\$37.65	\$37.40	\$37.05	\$36.50
0.2345-0.2499	\$181.35	\$103.50	\$77.35	\$56.45	\$49.20	\$42.05	\$37.30	\$37.00	\$36.85	\$36.50	\$36.20	\$35.55	\$35.15
0.2501-0.2968	\$197.50	\$119.50	\$93.35	\$73.95	\$66.75	\$59.65	\$54.75	\$52.30	\$50.00	\$48.80	\$48.50	\$47.75	\$47.65
0.2970-0.3124	\$192.50	\$114.45	\$88.35	\$68.40	\$61.20	\$54.05	\$49.30	\$49.15	\$48.75	\$48.55	\$48.10	\$48.05	\$47.70
0.3126-0.3437	\$200.00	\$124.25	\$95.70	\$76.60	\$69.45	\$62.20	\$57.45	\$55.05	\$52.65	\$52.45	\$52.15	\$51.60	\$51.35
0.3439-0.3593	\$201.80	\$122.30	\$96.15	\$77.10	\$69.90	\$62.70	\$57.85	\$55.55	\$53.20	\$52.85	\$52.55	\$52.45	\$52.10
0.3595-0.3749	\$195.75	\$117.65	\$91.60	\$72.00	\$64.80	\$57.65	\$52.85	\$52.65	\$52.55	\$52.40	\$52.30	\$52.20	\$52.05
0.3751-0.3905	\$213.85	\$135.75	\$109.65	\$91.95	\$84.70	\$77.55	\$72.75	\$70.40	\$68.05	\$66.75	\$66.05	\$65.60	\$65.00
0.3907-0.4218	\$216.55	\$138.60	\$112.45	\$94.90	\$87.75	\$80.55	\$75.80	\$73.35	\$71.00	\$69.90	\$69.00	\$68.60	\$68.05
0.4220-0.4374	\$212.40	\$134.25	\$108.15	\$90.25	\$83.10	\$75.95	\$71.10	\$68.70	\$66.35	\$65.20	\$64.40	\$63.95	\$63.35
0.4376-0.4843	\$222.60	\$144.65	\$118.50	\$101.65	\$94.45	\$87.25	\$82.60	\$80.05	\$77.75	\$76.50	\$75.80	\$75.30	\$74.65
0.4845-0.4999	\$217.00	\$138.95	\$112.85	\$95.45	\$88.20	\$81.00	\$76.20	\$73.80	\$73.70	\$73.45	\$73.15	\$73.05	\$72.90
0.5001-0.5311	\$219.75	\$142.95	\$117.85	\$98.55	\$93.45	\$88.40	\$85.70	\$83.35	\$81.75	\$80.15	\$78.60	\$77.05	\$75.50
0.5313-0.5624	\$226.50	\$149.50	\$125.10	\$103.50	\$100.50	\$97.50	\$96.95	\$94.45	\$91.55	\$88.50	\$85.50	\$82.50	\$79.45
0.5626-0.5937	\$242.35	\$161.10	\$134.65	\$111.85	\$108.30	\$105.00	\$104.55	\$101.30	\$97.80	\$94.35	\$90.80	\$87.30	\$83.85
0.5939-0.6249	\$250.00	\$169.20	\$143.40	\$121.80	\$118.65	\$115.55	\$113.80	\$112.40	\$109.25	\$106.15	\$103.00	\$99.95	\$96.80
0.6251-0.6874	\$264.95	\$181.60	\$156.50	\$135.30	\$132.40	\$129.40	\$127.95	\$126.50	\$123.50	\$120.55	\$118.90	\$114.65	\$111.75
0.6876-0.7187	\$272.90	\$189.50	\$162.80	\$142.60	\$140.30	\$137.70	\$136.60	\$135.50	\$133.15	\$130.85	\$128.50	\$127.80	\$127.45
0.7189-0.7499	\$282.55	\$200.00	\$175.15	\$154.75	\$151.10	\$147.50	\$144.10	\$142.15	\$140.25	\$136.60	\$132.95	\$129.35	\$125.70
0.7501-0.8124	\$297.40	\$214.20	\$188.30	\$163.15	\$159.75	\$158.25	\$156.15	\$152.70	\$149.20	\$145.70	\$142.15	\$138.70	\$135.20
0.8126-0.8437	\$312.45	\$230.05	\$202.90	\$183.25	\$180.10	\$177.05	\$174.85	\$172.70	\$171.05	\$167.95	\$164.90	\$161.85	\$158.90
0.8439-0.8749	\$328.70	\$245.40	\$219.30	\$195.90	\$191.85	\$189.15	\$187.85	\$183.80	\$179.65	\$175.65	\$171.55	\$167.60	\$163.50
0.8751-0.9374	\$341.75	\$258.20	\$231.70	\$208.60	\$204.55	\$200.85	\$200.40	\$196.30	\$192.25	\$188.20	\$184.00	\$182.20	\$180.30
0.9376-0.9687	\$359.35	\$273.95	\$247.80	\$234.60	\$230.05	\$225.40	\$220.65	\$217.80	\$215.95	\$211.25	\$206.50	\$204.20	\$202.00
0.9689-0.9999	\$371.85	\$288.60	\$263.00	\$250.50	\$244.20	\$238.00	\$233.65	\$229.55	\$225.45	\$219.20	\$213.00	\$206.75	\$200.50
1.0001-1.0624	\$400.00	\$316.75	\$289.70	\$278.60	\$268.95	\$264.55	\$259.60	\$254.95	\$250.45	\$243.40	\$236.40	\$229.40	\$222.40
1.0626-1.1249	\$429.10	\$345.65	\$319.15	\$309.50	\$300.50	\$291.55	\$289.75	\$282.55	\$273.55	\$264.65	\$255.65	\$246.75	\$237.80
1.1251-1.1874	\$456.30	\$371.85	\$347.70	\$338.95	\$331.05	\$323.20	\$315.65	\$311.55	\$307.40	\$299.55	\$291.65	\$283.75	\$275.85
1.1876-1.2499	\$485.15	\$403.45	\$377.35	\$370.30	\$360.70	\$351.10	\$345.85	\$341.55	\$332.00	\$322.30	\$312.75	\$303.20	\$293.55
1.2501-1.3749	\$514.25	\$436.70	\$411.10	\$404.10	\$396.35	\$391.60	\$388.55	\$384.55	\$379.15	\$372.95	\$366.75	\$366.35	\$365.55
1.3751-1.4999	\$542.85	\$459.35	\$439.05	\$434.95	\$433.30	\$430.75	\$426.85	\$426.70	\$425.55	\$424.70	\$423.90	\$422.85	\$422.05

Sizes above 1.5000 priced upon request.

1435 | Right Hand Spiral



INTERMEDIATE SIZES

LIST PRICE EACH IN QUANTITIES OF:

Size Range	1	2	3-5	6-7	8-11	12-17	18-23	24-35	36-47	48-59	60-71	72-95	96+
0.0391-0.0624	\$195.75	\$107.95	\$82.15	\$56.35	\$48.40	\$40.55	\$35.95	\$33.45	\$31.25	\$29.80	\$29.25	\$28.65	\$28.65
0.0626-0.1093	\$188.60	\$106.75	\$79.40	\$57.05	\$49.55	\$42.00	\$37.00	\$34.45	\$31.90	\$30.70	\$29.90	\$29.45	\$27.00
0.1095-0.1249	\$187.50	\$105.60	\$78.15	\$55.80	\$48.25	\$40.75	\$35.70	\$33.15	\$30.70	\$29.45	\$28.70	\$28.15	\$27.50
0.1251-0.1405	\$188.95	\$106.65	\$79.05	\$58.30	\$50.00	\$43.05	\$41.40	\$36.50	\$35.65	\$34.65	\$33.85	\$33.10	\$32.55
0.1407-0.1561	\$193.35	\$110.20	\$80.40	\$60.85	\$53.85	\$47.05	\$42.50	\$39.25	\$36.80	\$35.35	\$35.05	\$33.75	\$32.55
0.1563-0.1718	\$194.70	\$112.70	\$82.00	\$63.75	\$56.15	\$48.65	\$43.55	\$41.00	\$38.60	\$37.35	\$36.55	\$36.00	\$35.45
0.1720-0.1874	\$195.65	\$113.70	\$86.20	\$64.70	\$57.20	\$49.65	\$44.65	\$42.10	\$39.55	\$38.35	\$37.55	\$37.00	\$36.40
0.1876-0.2030	\$197.35	\$115.05	\$88.05	\$66.55	\$58.65	\$51.65	\$46.20	\$43.55	\$41.60	\$39.95	\$39.55	\$39.15	\$39.00
0.2032-0.2187	\$189.30	\$111.25	\$85.15	\$64.90	\$57.85	\$50.30	\$46.25	\$43.00	\$41.80	\$39.60	\$38.85	\$38.95	\$38.40
0.2189-0.2343	\$190.85	\$112.85	\$86.65	\$66.65	\$59.45	\$52.20	\$47.50	\$45.10	\$42.70	\$41.45	\$40.80	\$40.10	\$39.70
0.2345-0.2499	\$188.80	\$110.85	\$84.80	\$64.50	\$57.40	\$50.15	\$45.35	\$43.00	\$40.60	\$40.45	\$40.35	\$40.30	\$40.15
0.2501-0.2968	\$200.40	\$122.90	\$94.00	\$74.65	\$67.50	\$60.35	\$55.55	\$53.15	\$50.75	\$50.40	\$50.15	\$49.80	\$49.55
0.2970-0.3124	\$195.50	\$117.45	\$91.35	\$71.70	\$64.65	\$57.40	\$52.60	\$50.25	\$50.10	\$49.95	\$49.90	\$49.65	\$49.60
0.3126-0.3437	\$202.20	\$122.85	\$98.55	\$78.25	\$67.45	\$61.90	\$56.00	\$55.65	\$55.30	\$54.70	\$54.25	\$53.75	\$53.45
0.3439-0.3593	\$203.25	\$125.20	\$99.35	\$80.30	\$73.05	\$65.90	\$61.10	\$58.70	\$56.35	\$55.15	\$54.40	\$54.30	\$54.15
0.3595-0.3749	\$202.55	\$124.55	\$98.40	\$79.50	\$72.30	\$65.20	\$60.40	\$57.95	\$55.65	\$54.40	\$54.25	\$54.05	\$53.85
0.3751-0.3905	\$217.20	\$136.20	\$111.00	\$89.05	\$82.00	\$74.80	\$70.95	\$70.00	\$69.20	\$68.85	\$68.60	\$68.35	\$68.15
0.3907-0.4218	\$222.95	\$141.55	\$115.35	\$98.25	\$91.00	\$83.85	\$79.05	\$76.65	\$74.25	\$73.05	\$72.30	\$71.90	\$71.15
0.4220-0.4374	\$221.95	\$140.65	\$114.45	\$97.20	\$90.00	\$82.85	\$77.95	\$75.60	\$73.20	\$72.05	\$71.35	\$70.85	\$70.25
0.4376-0.4843	\$225.30	\$147.95	\$119.70	\$102.95	\$95.75	\$88.65	\$83.85	\$81.45	\$79.05	\$78.80	\$78.70	\$78.35	\$77.95
0.4845-0.4999	\$223.75	\$142.40	\$116.30	\$99.10	\$91.95	\$84.70	\$80.00	\$79.65	\$79.40	\$79.05	\$78.60	\$78.20	\$78.10
0.5001-0.5311	\$245.00	\$172.20	\$143.85	\$123.70	\$116.85	\$109.80	\$104.35	\$101.00	\$97.70	\$94.30	\$90.90	\$87.50	\$84.25
0.5313-0.5624	\$261.20	\$198.90	\$168.90	\$146.00	\$139.60	\$132.95	\$126.90	\$120.50	\$114.15	\$107.75	\$101.35	\$95.05	\$88.70
0.5626-0.5937	\$264.55	\$218.65	\$186.20	\$157.75	\$150.55	\$143.35	\$136.30	\$129.05	\$121.85	\$114.75	\$107.60	\$100.40	\$93.25
0.5939-0.6249	\$278.90	\$219.00	\$186.60	\$165.70	\$159.20	\$152.65	\$146.10	\$139.60	\$133.05	\$126.50	\$119.95	\$113.45	\$106.90
0.6251-0.6874	\$295.10	\$232.95	\$203.75	\$178.65	\$172.50	\$166.30	\$160.05	\$153.85	\$147.65	\$141.50	\$135.20	\$129.00	\$122.75
0.6876-0.7187	\$307.60	\$243.05	\$212.90	\$192.25	\$186.05	\$179.85	\$173.55	\$167.35	\$161.15	\$154.90	\$148.70	\$142.50	\$136.30
0.7189-0.7499	\$311.35	\$248.90	\$219.20	\$192.95	\$186.80	\$180.55	\$174.35	\$168.15	\$161.85	\$155.70	\$149.45	\$143.25	\$137.05
0.7501-0.8124	\$322.10	\$257.85	\$226.85	\$204.85	\$198.55	\$191.70	\$185.70	\$179.40	\$173.00	\$166.60	\$160.20	\$153.85	\$147.50
0.8126-0.8437	\$331.00	\$268.00	\$237.25	\$232.25	\$225.55	\$219.05	\$212.55	\$206.05	\$199.55	\$193.00	\$186.45	\$180.00	\$173.45
0.8439-0.8749	\$341.15	\$271.90	\$239.30	\$235.30	\$228.75	\$222.40	\$215.95	\$209.50	\$203.05	\$196.60	\$190.10	\$183.65	\$177.25
0.8751-0.9374	\$378.95	\$283.45	\$252.15	\$248.25	\$241.75	\$235.30	\$228.95	\$222.50	\$216.15	\$209.75	\$203.25	\$196.90	\$190.45
0.9376-0.9687	\$392.00	\$295.65	\$263.95	\$259.85	\$254.40	\$249.00	\$243.70	\$238.30	\$232.95	\$227.60	\$222.20	\$216.95	\$211.50
0.9689-0.9999	\$395.25	\$299.50	\$267.35	\$262.85	\$257.25	\$251.80	\$246.40	\$240.85	\$235.40	\$229.90	\$224.55	\$219.05	\$213.55

Sizes above 1.0000 priced upon request.





20 Production Length Reamers | Straight Shank

HIGH SPEED STEEL



333
Straight
Flute



335
Right Hand
Spiral

Decimal	Wire	Letter	Fraction	Over/ Under	Metric	Flute Length	# of Flutes	Overall Length	Shank Diameter	333 List Price	335 List Price
0.0394					1.0mm	1/2	4	1-5/8	.0394	\$19.15	\$22.15
0.0400	#60					1/2	4	1-5/8	.0400	\$21.05	\$23.85
0.0410	#59					1/2	4	1-5/8	.0410	\$21.05	\$23.85
0.0420	#58					1/2	4	1-5/8	.0420	\$21.05	\$23.85
0.0430	#57					1/2	4	1-3/4	.0430	\$21.05	\$23.85
0.0465	#56					1/2	4	1-3/4	.0465	\$21.05	\$23.85
0.0469			3/64			1/2	4	1-3/4	.0469	\$21.05	\$23.85
0.0520	#55					1/2	4	1-7/8	.0520	\$21.05	\$23.85
0.0550	#54					1/2	4	1-7/8	.0550	\$21.05	\$23.85
0.0591					1.5mm	1/2	4	1-7/8	.0591	\$21.05	\$23.85
0.0595	#53					1/2	4	1-7/8	.0595	\$21.05	\$23.85
0.0625			1/16			1/2	4	1-7/8	.0625	\$19.80	\$23.85
0.0635	#52					1/2	4	1-7/8	.0635	\$19.80	\$23.85
0.0670	#51					3/4	4	2	.0670	\$17.70	\$19.45
0.0700	#50					3/4	4	2	.0700	\$17.70	\$19.45
0.0730	#49					3/4	4	2	.0730	\$17.70	\$19.45
0.0760	#48					3/4	4	2	.0760	\$17.70	\$19.45
0.0781			5/64			3/4	4	2	.0781	\$17.70	\$19.45
0.0785	#47					3/4	4	2	.0785	\$17.70	\$19.45
0.0787					2.0mm	3/4	4	2-1/8	.0787	\$17.70	\$19.45
0.0810	#46					3/4	4	2-1/8	.0810	\$17.70	\$19.45
0.0820	#45					3/4	4	2-1/8	.0820	\$17.70	\$19.45
0.0860	#44					3/4	4	2-1/8	.0860	\$17.70	\$19.45
0.0890	#43					3/4	4	2-1/4	.0890	\$17.25	\$19.45
0.0935	#42					3/4	4	2-1/4	.0935	\$17.25	\$19.45
0.0938			3/32			3/4	4	2-1/4	.0938	\$17.25	\$19.45
0.0960	#41					7/8	4	2-3/8	.0960	\$17.25	\$19.45
0.0980	#40					7/8	4	2-3/8	.0980	\$17.25	\$19.45
0.0984					2.5mm	7/8	4	2-3/8	.0984	\$17.25	\$19.45
0.0995	#39					7/8	4	2-3/8	.0995	\$17.25	\$19.45
0.1015	#38					7/8	4	2-1/2	.1015	\$17.25	\$19.45
0.1040	#37					7/8	4	2-1/2	.1040	\$17.25	\$19.45
0.1065	#36					7/8	4	2-1/2	.1065	\$17.25	\$19.45
0.1094			7/64			7/8	4	2-5/8	.1094	\$17.70	\$19.45
0.1100	#35					7/8	4	2-5/8	.1100	\$17.70	\$19.45
0.1110	#34					7/8	4	2-5/8	.1110	\$17.70	\$19.45
0.1130	#33					7/8	4	2-5/8	.1130	\$17.70	\$19.45
0.1160	#32					7/8	4	2-3/4	.1160	\$17.70	\$19.45
0.1181					3.0mm	7/8	4	2-3/4	.1181	\$16.85	\$18.50
0.1200	#31					7/8	4	2-3/4	.1200	\$17.70	\$19.45
0.1240				o/u		7/8	4	2-3/4	.1240	\$16.85	\$18.50
0.1250			1/8			7/8	4	2-3/4	.1250	\$16.05	\$17.55
0.1260				o/u		7/8	4	2-3/4	.1260	\$16.85	\$18.50
0.1285	#30					7/8	4	2-3/4	.1285	\$17.55	\$19.45
0.1360	#29					1	4	2-7/8	.1360	\$23.15	\$24.30
0.1378					3.5mm	1	4	2-7/8	.1378	\$23.15	\$24.30
0.1405	#28					1	4	2-7/8	.1405	\$23.15	\$24.30
0.1406			9/64			1	4	2-7/8	.1406	\$23.15	\$24.30
0.1440	#27					1	4	3	.1440	\$23.15	\$24.30
0.1470	#26					1	4	3	.1470	\$23.15	\$24.30
0.1495	#25					1	4	3	.1495	\$23.15	\$24.30
0.1520	#24					1	4	3-1/8	.1520	\$23.15	\$24.30

Decimal	Wire Letter	Fraction	Over/Under	Metric	Flute Length	# of Flutes	Overall Length	Shank Diameter	333 List Price	335 List Price
0.1540	#23				1	4	3-1/8	.1540	\$23.15	\$24.30
0.1562		5/32			1	4	3-1/8	.1562	\$23.15	\$24.30
0.1570	#22				1	4	3-1/8	.1570	\$20.80	\$24.30
0.1575				4.0mm	1	6	3-1/8	.1575	\$20.80	\$24.30
0.1590	#21				1-1/8	6	3-1/4	.1590	\$23.05	\$24.30
0.1610	#20				1-1/8	6	3-1/4	.1610	\$23.05	\$24.30
0.1660	#19				1-1/8	6	3-1/4	.1660	\$23.05	\$24.30
0.1695	#18				1-1/8	6	3-1/4	.1695	\$23.05	\$24.30
0.1719		11/64			1-1/8	6	3-1/4	.1719	\$23.05	\$24.30
0.1730	#17				1-1/8	6	3-3/8	.1730	\$23.05	\$24.30
0.1770	#16				1-1/8	6	3-3/8	.1770	\$23.05	\$24.30
0.1772				4.5mm	1-1/8	6	3-3/8	.1772	\$23.05	\$24.30
0.1800	#15				1-1/8	6	3-3/8	.1800	\$24.30	\$25.80
0.1820	#14				1-1/8	6	3-3/8	.1820	\$24.30	\$25.80
0.1850	#13				1-1/8	6	3-1/2	.1850	\$24.30	\$25.80
0.1865			o/u		1-1/8	6	3-1/2	.1865	\$23.15	\$24.65
0.1875		3/16			1-1/8	6	3-1/2	.1875	\$22.10	\$23.50
0.1885			o/u		1-1/8	6	3-1/2	.1885	\$23.15	\$24.65
0.1890	#12				1-1/8	6	3-1/2	.1890	\$24.30	\$25.80
0.1910	#11				1-1/4	6	3-1/2	.1910	\$25.80	\$28.50
0.1935	#10				1-1/4	6	3-5/8	.1935	\$25.80	\$28.50
0.1960	#9				1-1/4	6	3-5/8	.1960	\$25.80	\$28.50
0.1969				5.0mm	1-1/4	6	3-5/8	.1969	\$25.80	\$28.50
0.1990	#8				1-1/4	6	3-5/8	.1990	\$25.80	\$28.50
0.2010	#7				1-1/4	6	3-5/8	.2010	\$25.80	\$28.50
0.2031		13/64			1-1/4	6	3-5/8	.2031	\$25.80	\$28.10
0.2040	#6				1-1/4	6	3-3/4	.2040	\$25.80	\$28.50
0.2055	#5				1-1/4	6	3-3/4	.2055	\$25.80	\$28.50
0.2090	#4				1-1/4	6	3-3/4	.2090	\$25.80	\$28.50
0.2130	#3				1-1/4	6	3-3/4	.2130	\$25.80	\$28.50
0.2165				5.5mm	1-1/4	6	3-3/4	.2165	\$25.80	\$28.50
0.2188		7/32			1-1/4	6	3-3/4	.2188	\$25.35	\$27.30
0.2210	#2				1-1/2	6	3-7/8	.2210	\$25.35	\$28.50
0.2280	#1				1-1/2	6	3-7/8	.2280	\$25.35	\$28.50
0.2340	A				1-1/2	6	3-7/8	.2340	\$25.35	\$28.50
0.2344		15/64			1-1/2	6	3-7/8	.2344	\$25.35	\$28.50
0.2362				6.0mm	1-1/2	6	3-7/8	.2362	\$25.35	\$28.50
0.2380	B				1-1/2	6	4	.2380	\$27.50	\$28.50
0.2420	C				1-1/2	6	4	.2420	\$27.50	\$28.50
0.2460	D				1-1/2	6	4	.2460	\$27.50	\$28.50
0.2490			o/u		1-1/2	6	4	.2490	\$26.20	\$27.20
0.2500	E	1/4			1-1/2	6	4	.2500	\$24.95	\$25.80
0.2510			o/u		1-1/2	6	4-1/8	.2510	\$26.20	\$27.20
0.2559				6.5mm	1-1/2	6	4-1/8	.2559	\$27.45	\$28.50
0.2570	F				1-1/2	6	4-1/8	.2570	\$27.45	\$28.50
0.2610	G				1-1/2	6	4-1/8	.2610	\$27.45	\$30.95
0.2656		17/64			1-1/2	6	4-1/8	.2656	\$27.45	\$30.95
0.2660	H				1-1/2	6	4-1/8	.2660	\$30.70	\$31.80
0.2720	I				1-1/2	6	4-1/8	.2720	\$30.70	\$31.80
0.2756				7.0mm	1-1/2	6	4-1/8	.2756	\$30.70	\$31.80
0.2770	J				1-1/2	6	4-1/8	.2770	\$30.70	\$31.80
0.2810	K				1-1/2	6	4-1/4	.2810	\$30.70	\$31.80



333
Straight
Flute



335
Right Hand
Spiral





22 Production Length Reamers | Straight Shank

HIGH SPEED STEEL



333
Straight
Flute



335
Right Hand
Spiral

Decimal	Wire	Letter	Fraction	Over/ Under	Metric	Flute Length	# of Flutes	Overall Length	Shank Diameter	333 List Price	335 List Price
0.2812			9/32			1-1/2	6	4-1/4	.2812	\$30.70	\$30.95
0.2900		L				1-1/2	6	4-1/4	.2900	\$30.70	\$31.80
0.2950		M				1-1/2	6	4-3/8	.2950	\$30.70	\$31.80
0.2953					7.5mm	1-1/2	6	4-3/8	.2953	\$30.70	\$31.80
0.2969			19/64			1-1/2	6	4-3/8	.2969	\$30.70	\$31.80
0.3020		N				1-1/2	6	4-3/8	.3020	\$30.70	\$31.80
0.3115				o/u		1-1/2	6	4-1/2	.3115	\$29.20	\$30.30
0.3125			5/16			1-1/2	6	4-1/2	.3125	\$27.85	\$28.85
0.3135				o/u		1-1/2	6	4-1/2	.3135	\$29.20	\$30.30
0.3150					8.0mm	1-1/2	6	4-1/2	.3150	\$29.20	\$30.30
0.3160		O				1-1/2	6	4-1/2	.3160	\$32.55	\$35.15
0.3230		P				1-1/2	6	4-5/8	.3230	\$32.55	\$35.15
0.3281			21/64			1-1/2	6	4-5/8	.3281	\$32.55	\$35.15
0.3320		Q				1-1/2	6	4-3/4	.3320	\$32.55	\$35.15
0.3346					8.5mm	1-1/2	6	4-3/4	.3346	\$32.55	\$35.15
0.3390		R				1-1/2	6	4-3/4	.3390	\$32.55	\$35.15
0.3438			11/32			1-1/2	6	4-3/4	.3438	\$32.55	\$35.15
0.3480		S				1-3/4	6	4-7/8	.3480	\$32.55	\$35.15
0.3543					9.0mm	1-3/4	6	4-7/8	.3543	\$32.55	\$35.15
0.3580		T				1-3/4	6	4-7/8	.3580	\$32.55	\$35.15
0.3594			23/64			1-3/4	6	4-7/8	.3594	\$32.55	\$35.15
0.3680		U				1-3/4	6	5	.3680	\$32.55	\$35.15
0.3740				o/u	9.5mm	1-3/4	6	5	.3740	\$30.95	\$33.45
0.3750			3/8			1-3/4	6	5	.3750	\$29.55	\$31.85
0.3760				o/u		1-3/4	6	5	.3760	\$30.95	\$33.45
0.3770		V				1-3/4	6	5	.3770	\$35.80	\$39.25
0.3860		W				1-3/4	6	5-1/8	.3860	\$35.80	\$39.25
0.3906			25/64			1-3/4	6	5-1/8	.3906	\$35.80	\$39.25
0.3937					10.0mm	1-3/4	6	5-1/8	.3937	\$35.80	\$39.25
0.3970		X				1-3/4	6	5-1/8	.3970	\$35.80	\$39.25
0.4040		Y				1-3/4	6	5-1/4	.4040	\$37.40	\$39.25
0.4062			13/32			1-3/4	6	5-1/4	.4062	\$37.40	\$38.95
0.4130		Z				1-3/4	6	5-1/4	.4130	\$37.40	\$39.25
0.4134					10.5mm	1-3/4	6	5-1/4	.4134	\$37.40	\$39.25
0.4219			27/64			1-3/4	6	5-3/8	.4219	\$37.40	\$39.25
0.4331					11.0mm	1-3/4	6	5-1/2	.4331	\$35.90	\$39.25
0.4365				o/u		1-3/4	6	5-1/2	.4365	\$34.20	\$37.40
0.4375			7/16			1-3/4	6	5-1/2	.4375	\$32.55	\$35.65
0.4385				o/u		1-3/4	6	5-1/2	.4385	\$34.20	\$37.40
0.4528					11.5mm	1-3/4	6	5-1/2	.4528	\$41.20	\$44.20
0.4531			29/64			1-3/4	6	5-5/8	.4531	\$41.20	\$44.20
0.4688			15/32			1-3/4	6	5-3/4	.4688	\$41.20	\$44.20
0.4724					12.0mm	2	6	5-7/8	.4724	\$41.20	\$44.20
0.4844			31/64			2	6	5-7/8	.4844	\$41.20	\$44.20
0.4921					12.5mm	2	6	5-7/8	.4921	\$39.25	\$44.20
0.4990				o/u		2	6	6	.4990	\$37.40	\$42.10
0.5000			1/2			2	6	6	.5000	\$35.65	\$40.10
0.5010				o/u		2	6	6	.5010	\$37.40	\$42.10

333 | Straight Flute



INTERMEDIATE SIZES

LIST PRICE EACH IN QUANTITIES OF:

Size Range	1	2	3-5	6-7	8-11	12-17	18-23	24-35	36-47	48-59	60-71	72-95	96+
.0400 - .0624	\$143.70	\$92.75	\$70.05	\$43.15	\$39.00	\$34.80	\$30.55	\$28.15	\$25.75	\$24.60	\$23.90	\$23.45	\$22.70
.0626 - .1093	\$141.55	\$90.45	\$67.90	\$40.90	\$36.85	\$32.60	\$28.50	\$26.05	\$25.75	\$25.30	\$24.50	\$23.65	\$22.50
.1095 - .1249	\$135.20	\$86.75	\$63.95	\$37.05	\$32.90	\$28.70	\$24.50	\$22.15	\$19.70	\$18.55	\$17.85	\$17.75	\$17.70
.1251 - .1874	\$143.50	\$92.65	\$69.55	\$42.60	\$38.50	\$34.30	\$30.40	\$28.00	\$25.60	\$24.45	\$23.80	\$23.30	\$23.15
.1876 - .2343	\$149.75	\$98.90	\$76.05	\$49.20	\$44.95	\$40.80	\$36.55	\$34.20	\$31.85	\$30.60	\$29.90	\$29.45	\$28.80
.2345 - .2499	\$146.75	\$95.95	\$73.15	\$46.25	\$42.05	\$37.90	\$33.60	\$31.30	\$28.95	\$27.75	\$27.65	\$27.55	\$27.50
.2501 - .2969	\$155.40	\$104.45	\$81.70	\$54.75	\$50.60	\$46.40	\$42.25	\$39.85	\$37.45	\$36.20	\$35.55	\$35.05	\$34.35
.2970 - .3124	\$151.35	\$100.45	\$77.70	\$50.75	\$46.60	\$42.45	\$38.20	\$35.80	\$33.45	\$32.20	\$31.45	\$30.95	\$30.70
.3126 - .3593	\$157.50	\$106.65	\$83.90	\$56.95	\$52.75	\$48.60	\$44.35	\$42.05	\$39.60	\$38.40	\$37.70	\$37.25	\$36.55
.3595 - .3749	\$153.85	\$102.95	\$80.15	\$53.20	\$49.10	\$44.85	\$40.70	\$38.35	\$35.90	\$34.70	\$34.00	\$33.45	\$32.95
.3751 - .4218	\$162.30	\$111.55	\$88.80	\$61.90	\$57.70	\$53.50	\$49.30	\$46.90	\$44.60	\$43.30	\$42.60	\$42.10	\$41.45
.4220 - .4374	\$159.55	\$108.65	\$86.00	\$59.05	\$54.80	\$50.70	\$46.05	\$44.15	\$41.65	\$40.45	\$39.70	\$39.25	\$38.65
.4376 - .4843	\$166.40	\$115.50	\$92.70	\$65.90	\$61.60	\$57.45	\$53.20	\$50.90	\$48.50	\$47.30	\$46.60	\$46.05	\$45.45
.4845 - .4999	\$162.65	\$111.80	\$89.05	\$62.15	\$58.65	\$53.75	\$49.55	\$47.10	\$44.75	\$43.55	\$42.90	\$42.45	\$41.80

335 | Right Hand Spiral



INTERMEDIATE SIZES

LIST PRICE EACH IN QUANTITIES OF:

Size Range	1	2	3-5	6-7	8-11	12-17	18-23	24-35	36-47	48-59	60-71	72-95	96+
.0400 - .0624	\$148.55	\$97.70	\$74.90	\$48.05	\$43.80	\$39.60	\$35.45	\$33.00	\$29.20	\$28.80	\$28.70	\$28.20	\$25.95
.0626 - .1093	\$143.35	\$92.50	\$69.85	\$42.90	\$38.65	\$35.80	\$28.60	\$27.90	\$25.50	\$24.30	\$23.50	\$23.10	\$22.55
.1095 - .1249	\$142.30	\$91.40	\$68.75	\$41.85	\$37.65	\$33.45	\$29.25	\$26.85	\$24.50	\$23.30	\$22.55	\$22.15	\$21.45
.1251 - .1874	\$146.80	\$97.70	\$74.90	\$48.05	\$43.80	\$39.50	\$35.45	\$32.95	\$32.20	\$30.85	\$30.25	\$29.80	\$29.20
.1876 - .2343	\$152.50	\$101.65	\$78.85	\$52.00	\$47.75	\$43.55	\$39.30	\$36.85	\$34.60	\$33.45	\$32.75	\$32.20	\$31.60
.2345 - .2499	\$150.80	\$99.90	\$77.20	\$50.00	\$46.00	\$41.85	\$37.65	\$35.30	\$32.75	\$31.70	\$30.90	\$30.50	\$29.85
.2501 - .2969	\$155.70	\$104.75	\$82.10	\$55.20	\$50.95	\$46.80	\$42.60	\$40.25	\$37.85	\$36.55	\$35.90	\$35.45	\$34.80
.2970 - .3124	\$153.70	\$102.85	\$80.05	\$53.15	\$49.00	\$44.75	\$40.60	\$38.20	\$35.80	\$34.60	\$33.90	\$33.45	\$32.85
.3126 - .3593	\$159.80	\$108.80	\$86.15	\$59.20	\$54.95	\$50.85	\$46.60	\$44.25	\$41.85	\$40.70	\$39.95	\$39.50	\$38.95
.3595 - .3749	\$159.25	\$108.35	\$85.65	\$58.70	\$54.45	\$50.30	\$46.10	\$43.80	\$41.35	\$40.15	\$39.50	\$39.00	\$38.40
.3751 - .4218	\$164.15	\$113.50	\$90.75	\$63.85	\$59.70	\$55.50	\$51.30	\$48.80	\$46.40	\$45.30	\$44.65	\$44.00	\$43.55
.4220 - .4374	\$163.80	\$112.30	\$90.15	\$63.30	\$59.10	\$54.90	\$50.70	\$48.30	\$45.90	\$44.75	\$44.00	\$43.55	\$42.95
.4376 - .4843	\$167.20	\$116.30	\$93.55	\$66.65	\$62.50	\$58.25	\$54.05	\$51.65	\$49.30	\$48.10	\$47.40	\$46.90	\$46.35
.4845 - .4999	\$164.90	\$114.00	\$91.25	\$64.35	\$60.25	\$55.95	\$51.85	\$49.40	\$47.00	\$45.80	\$45.10	\$44.65	\$44.20





24 Jobber Reamers - Taper Shank

HIGH SPEED STEEL



406
Taper
Shank

DIAMETER	FRACTION	FLUTE LENGTH	NUMBER FLUTES	OVERALL LENGTH	MORSE TAPER	406 LIST PRICE
0.2500	1/4	2	6	5-3/16	1	\$85.65
0.2812	9/32	2	6	5-3/16	1	\$88.20
0.3125	5/16	2-1/4	6	5-1/2	1	\$88.75
0.3438	11/32	2-1/4	6	5-1/2	1	\$95.00
0.3750	3/8	2-1/2	6	5-13/16	1	\$100.05
0.4062	13/32	2-1/2	6	5-13/16	1	\$103.50
0.4375	7/16	2-3/4	6	6-1/8	1	\$107.25
0.4688	15/32	2-3/4	6	6-1/8	1	\$111.25
0.5000	1/2	3	6	6-7/16	1	\$116.15
0.5312	17/32	3	6	6-7/16	1	\$122.50
0.5625	9/16	3-1/4	8	6-3/4	1	\$131.35
0.5938	19/32	3-1/4	8	6-3/4	1	\$134.75
0.6250	5/8	3-1/2	8	7-9/16	2	\$137.05
0.6562	21/32	3-1/2	8	7-9/16	2	\$147.45
0.6875	11/16	3-7/8	8	8	2	\$157.05
0.7188	23/32	3-7/8	8	8	2	\$160.00
0.7500	3/4	4-3/16	8	8-3/8	2	\$164.20
0.8125	13/16	4-9/16	8	8-13/16	2	\$184.30
0.8750	7/8	4-7/8	8	9-3/16	2	\$206.05
0.9375	15/16	5-1/8	8	10	3	\$226.30
1.0000	1	5-7/16	8	10-3/8	3	\$248.25



DIAMETER	FRACTION	NUMBER FLUTES	FLUTE LENGTH	OVERALL LENGTH	SHANK DIAMETER	MORSE TAPER	431 LIST PRICE	432 LIST PRICE
0.3750	3/8	6	3/4	7	5/16	1	\$131.35	\$149.10
0.4062	13/32	6	3/4	7	5/16	1	\$139.95	\$157.80
0.4375	7/16	6	7/8	7	3/8	1	\$139.95	\$157.80
0.4688	15/32	6	7/8	7	3/8	1	\$145.30	\$161.60
0.5000	1/2	6	1	8	7/16	1	\$147.85	\$164.75
0.5312	17/32	6	1	8	7/16	1	\$154.20	\$171.25
0.5625	9/16	6	1-1/8	8	7/16	1	\$158.15	\$171.25
0.5938	19/32	6	1-1/8	8	7/16	1	\$160.50	\$177.60
0.6250	5/8	6	1-1/4	9	9/16	2	\$165.40	\$183.90
0.6562	21/32	6	1-1/4	9	9/16	2	\$176.60	\$194.00
0.6875	11/16	6	1-1/4	9	9/16	2	\$177.80	\$195.20
0.7188	23/32	6	1-1/4	9	9/16	2	\$189.40	\$208.20
0.7500	3/4	6	1-3/8	9-1/2	5/8	2	\$195.90	\$214.70
0.7812	25/32	8	1-3/8	9-1/2	5/8	2	\$207.35	\$224.60
0.8125	13/16	8	1-3/8	9-1/2	5/8	2	\$215.30	\$227.90
0.8438	27/32	8	1-3/8	9-1/2	5/8	2	\$226.90	\$241.20
0.8750	7/8	8	1-1/2	10	3/4	2	\$233.35	\$250.65
0.9062	29/32	8	1-1/2	10	3/4	2	\$243.30	\$263.75
0.9375	15/16	8	1-1/2	10	3/4	3	\$254.65	\$270.30
0.9688	31/32	8	1-1/2	10	3/4	3	\$266.15	\$281.70
1.0000	1	8	1-5/8	10-1/2	7/8	3	\$280.75	\$297.85
1.0312	1-1/32	8	1-5/8	10-1/2	7/8	3	\$297.20	\$309.35
1.0625	1-1/16	8	1-5/8	10-1/2	7/8	3	\$310.30	\$324.15
1.0938	1-3/32	8	1-5/8	10-1/2	7/8	3	\$325.05	\$338.55
1.1250	1-1/8	8	1-3/4	11	7/8	3	\$339.55	\$350.25
1.1562	1-5/32	8	1-3/4	11	7/8	3	\$344.15	\$364.65
1.1875	1-3/16	8	1-3/4	11	1	3	\$357.65	\$379.30
1.2188	1-7/32	8	1-3/4	11	1	3	\$370.65	\$393.80
1.2500	1-1/4	8	1-7/8	11-1/2	1	4	\$385.45	\$412.10
1.3125	1-5/16	8	1-7/8	11-1/2	1	4	\$398.35	\$428.25
1.3750	1-3/8	8	2	12	1	4	\$413.05	\$445.90
1.4375	1-7/16	8	2	12	1-1/4	4	\$429.35	\$472.10
1.5000	1-1/2	8	2-1/8	12-1/2	1-1/4	4	\$447.40	\$488.35



431
Straight
Shank



432
Taper
Shank



PHONE **800.343.2404**
sales@yankeereamer.com
www.yankeereamer.com



26 Dowel Pin Reamers | Straight Shank

HIGH SPEED STEEL

470 | Straight Flute



475 | Right Hand Spiral



475L | Left Hand Spiral



DIAMETER	FLUTE LENGTH	NUMBER FLUTES	OVERALL LENGTH	SHANK DIAMETER	470 LIST PRICE	475 LIST PRICE	475L LIST PRICE
.1230	1-7/8	4	3-1/2	.1190	\$20.60	\$23.60	\$23.60
.1247	1-7/8	4	3-1/2	.1190	\$20.60	\$23.60	\$23.60
.1855	1-1/8	6	4-1/2	.1805	\$26.25	\$30.25	\$30.25
.1870	1-1/8	6	4-1/2	.1805	\$26.25	\$30.25	\$30.25
.2480	1-1/2	6	6	.2405	\$28.70	\$31.55	\$31.55
.2495	1-1/2	6	6	.2405	\$28.70	\$31.55	\$31.55
.3105	1-1/2	6	6	.2792	\$33.75	\$37.20	\$37.20
.3120	1-1/2	6	6	.2792	\$33.75	\$37.20	\$37.20
.3730	1-3/4	6	7	.3105	\$36.40	\$40.10	\$40.10
.3745	1-3/4	6	7	.3105	\$36.40	\$40.10	\$40.10
.4355	1-3/4	6	7	.3730	\$41.10	\$47.65	\$47.65
.4370	1-3/4	6	7	.3730	\$41.10	\$47.65	\$47.65
.4980	2	6	8	.4355	\$44.75	\$51.85	\$51.85
.4995	2	6	8	.4355	\$44.75	\$51.85	\$51.85

Dowel Pin Reamers | Straight Shank

M-42, 8% COBALT

1470 | Straight Flute



1475 | Right Hand Spiral



DIAMETER	FLUTE LENGTH	NUMBER FLUTES	OVERALL LENGTH	SHANK DIAMETER	1470 LIST PRICE	1475 LIST PRICE
.1230	1-7/8	4	3-1/2	.1190	\$22.35	\$25.95
.1247	1-7/8	4	3-1/2	.1190	\$22.35	\$25.95
.1855	1-1/8	6	4-1/2	.1805	\$28.15	\$33.35
.1870	1-1/8	6	4-1/2	.1805	\$28.15	\$33.35
.2480	1-1/2	6	6	.2405	\$31.60	\$36.05
.2495	1-1/2	6	6	.2405	\$31.60	\$36.05
.3105	1-1/2	6	6	.2792	\$45.25	\$46.90
.3120	1-1/2	6	6	.2792	\$45.25	\$46.90
.3730	1-3/4	6	7	.3105	\$49.55	\$51.40
.3745	1-3/4	6	7	.3105	\$49.55	\$51.40
.4355	1-3/4	6	7	.3730	\$63.60	\$68.20
.4370	1-3/4	6	7	.3730	\$63.60	\$68.20
.4980	2	6	8	.4355	\$72.95	\$78.15
.4995	2	6	8	.4355	\$72.95	\$78.15

Made in the USA 

370 | Straight Flute



375 | Right Hand Spiral



DIAMETER	FLUTE LENGTH	NUMBER FLUTES	OVERALL LENGTH	SHANK DIAMETER	370 LIST PRICE	375 LIST PRICE
.1230	1-7/8	4	2-3/4	.1230	\$17.70	\$21.45
.1247	1-7/8	4	2-3/4	.1247	\$17.70	\$21.45
.1855	1-1/8	6	3-1/2	.1855	\$23.15	\$29.20
.1870	1-1/8	6	3-1/2	.1870	\$23.15	\$29.20
.2480	1-1/2	6	4	.2480	\$27.50	\$29.85
.2495	1-1/2	6	4	.2495	\$27.50	\$29.85
.3105	1-1/2	6	4-1/2	.3105	\$30.70	\$32.85
.3120	1-1/2	6	4-1/2	.3120	\$30.70	\$32.85
.3730	1-3/4	6	5	.3730	\$32.95	\$38.40
.3745	1-3/4	6	5	.3745	\$32.95	\$38.40
.4355	1-3/4	6	5-1/2	.4355	\$38.65	\$42.95
.4370	1-3/4	6	5-1/2	.4370	\$38.65	\$42.95
.4980	2	6	6	.4980	\$41.80	\$46.45
.4995	2	6	6	.4995	\$44.20	\$49.10

Dowel Pin Reamers vs. Standard Chucking Reamers What's the difference?

Few people know the difference between Dowel Pin Reamers and Standard Chucking Reamers. Whereas Standard Chucking Reamers are produced with little back taper and a plus diameter tolerance, Dowel Pin Reamers are produced with increased back taper and a minus diameter tolerance (-.0002).

A) To gain maximum results in dowel pin installations, the following is recommended.

1. Drill holes 1/64" under dowel pin size either in cast iron or steel when below 1/2" diameter. For holes 1/2" and over in size, the drill hole may be 1/32" under the dowel pin size.
2. Ream holes in cast iron .0005" undersize. For example, the 1/4" dowel, uses a .2495" reamer to obtain a press fit. For tool steel which is to be hardened, use a standard size reamer. The shrinkage in hardening will take care of a press fit. Scale should be removed by polishing or lapping.

B) How to dowel very high grade tools or dies.

1. Drill holes in part 1/64" undersize when below 1/2" diameter. For holes 1/2" and over in size, the drill hole may be 1/32" under dowel size.
2. Ream holes .002" undersize.
3. Ream holes .0005" undersize.
(NOTE: Tolerance of reamer is plus .000 minus .0002" with .0005 back taper per 1-1/2" length. Grind for end cutting with no relief on periphery.)
4. Harden tool steel and lap holes to fit reamer.
5. Align and secure tool steel in place on its mounting block or base. Use lapped holes as a jig and follow same drill and reamer sequence as above in Steps 1, 2, and 3.



28 Chucking Reamers | Taper Shank

HIGH SPEED STEEL

436 | Straight Flute



437 | Right Hand Spiral



DIAMETER	EQUIVALENT	FLUTE LENGTH	NUMBER FLUTES	OVERALL LENGTH	MORSE TAPER	436 LIST PRICE	437 LIST PRICE
0.2362	6mm	1-1/2	6	6	1	\$50.75	—
0.2500	1/4	1-1/2	6	6	1	\$50.75	\$55.75
0.2812	9/32	1-1/2	6	6	1	\$53.10	\$58.35
0.3125	5/16	1-1/2	6	6	1	\$52.20	\$57.45
0.3150	8mm	1-1/2	6	6	1	\$54.45	—
0.3438	11/32	1-1/2	6	6	1	\$56.55	\$62.20
0.3750	3/8	1-3/4	6	7	1	\$58.30	\$64.25
0.3937	10mm	1-3/4	6	7	1	\$58.95	—
0.4062	13/32	1-3/4	6	7	1	\$59.40	\$65.30
0.4375	7/16	1-3/4	6	7	1	\$59.70	\$65.60
0.4688	15/32	1-3/4	6	7	1	\$64.40	\$70.90
0.4724	12mm	2	6	8	1	\$64.85	—
0.5000	1/2	2	6	8	1	\$65.35	\$71.90
0.5312	17/32	2	6	8	1	\$72.75	\$80.05
0.5625	9/16	2	8	8	1	\$81.25	\$89.45
0.5938	19/32	2	8	8	1	\$82.75	\$91.00
0.6250	5/8	2-1/4	8	9	2	\$88.15	\$96.90
0.6562	21/32	2-1/4	8	9	2	\$91.30	\$100.45
0.6875	11/16	2-1/4	8	9	2	\$91.30	\$100.45
0.7188	23/32	2-1/4	8	9	2	\$103.00	\$113.35
0.7500	3/4	2-1/2	8	9-1/2	2	\$103.00	\$113.35
0.7812	25/32	2-1/2	8	9-1/2	2	\$117.80	\$129.55
0.8125	13/16	2-1/2	8	9-1/2	2	\$117.80	\$129.55
0.8438	27/32	2-1/2	8	9-1/2	2	\$131.50	\$144.60
0.8750	7/8	2-5/8	8	10	2	\$132.90	\$146.10
0.9062	29/32	2-5/8	8	10	2	\$146.30	\$160.85
0.9375	15/16	2-5/8	8	10	3	\$146.30	\$160.85
0.9688	31/32	2-5/8	8	10	3	\$160.45	\$176.50
1.0000	1	2-3/4	8	10-1/2	3	\$161.80	\$178.05
1.0625	1-1/16	2-3/4	8	10-1/2	3	\$176.95	\$194.65
1.1250	1-1/8	2-7/8	8	11	3	\$196.40	\$215.95
1.1875	1-3/16	2-7/8	10	11	3	\$220.00	\$242.05
1.2500	1-1/4	3	10	11-1/2	4	\$238.25	\$262.10
1.3125	1-5/16	3	10	11-1/2	4	\$260.60	\$286.60
1.3750	1-3/8	3-1/4	10	12	4	\$281.65	\$309.80
1.4375	1-7/16	3-1/4	10	12	4	\$305.25	\$335.70
1.5000	1-1/2	3-1/2	10	12-1/2	4	\$324.40	\$356.85
1.5625	1-9/16	3-1/2	12	13	4	\$455.50	\$501.00
1.6250	1-5/8	3-1/2	12	13	4	\$455.50	\$501.00
1.6875	1-11/16	4	12	13-1/2	5	\$523.10	\$575.40
1.7500	1-3/4	4	12	13-1/2	5	\$523.10	\$575.40
1.8125	1-13/16	4	12	14	5	\$602.40	\$662.65
1.8750	1-7/8	4	12	14	5	\$602.40	\$662.65
1.9375	1-15/16	4	12	14	5	\$705.25	\$775.85
2.0000	2	4	12	14	5	\$705.25	\$775.85

Chucking Reamers | Taper Shank

HIGH SPEED STEEL

436 | Straight Flute

INTERMEDIATE SIZES

Size Range	LIST PRICE EACH IN QUANTITIES OF:												
	1	2	3-5	6-7	8-11	12-17	18-23	24-35	36-47	48-59	60-71	72-95	96+
.2363 - .2969	\$208.55	\$141.70	\$111.70	\$84.85	\$78.30	\$70.00	\$63.40	\$60.15	\$56.55	\$53.70	\$53.55	\$53.30	\$53.10
.2970 - .3124	\$202.80	\$136.00	\$105.90	\$78.40	\$71.90	\$63.85	\$57.20	\$53.85	\$53.55	\$53.20	\$52.85	\$52.60	\$52.20
.3126 - .3437	\$211.80	\$145.10	\$115.00	\$87.10	\$79.35	\$73.30	\$66.90	\$63.40	\$60.15	\$57.25	\$57.00	\$56.90	\$56.55
.3439 - .3594	\$212.60	\$146.00	\$115.75	\$89.35	\$82.75	\$74.35	\$66.90	\$64.30	\$61.35	\$58.15	\$57.50	\$57.00	\$56.55
.3595 - .3749	\$206.50	\$139.60	\$109.55	\$82.30	\$75.80	\$67.80	\$61.20	\$60.70	\$60.05	\$59.60	\$59.10	\$58.60	\$58.30
.3751 - .3906	\$216.25	\$149.50	\$119.60	\$93.25	\$86.75	\$79.40	\$72.70	\$69.45	\$66.15	\$62.70	\$62.40	\$61.85	\$61.30
.3907 - .4219	\$218.55	\$152.20	\$122.05	\$96.15	\$89.60	\$81.00	\$74.40	\$71.15	\$67.85	\$64.85	\$64.30	\$63.90	\$63.85
.4220 - .4374	\$214.80	\$148.10	\$117.90	\$91.80	\$85.20	\$76.65	\$70.00	\$66.65	\$63.40	\$62.45	\$61.85	\$60.95	\$60.45
.4376 - .4844	\$224.20	\$157.90	\$127.80	\$102.55	\$96.05	\$87.05	\$77.25	\$75.65	\$74.15	\$71.55	\$71.15	\$70.45	\$69.80
.4845 - .4999	\$219.40	\$152.65	\$122.50	\$96.75	\$90.25	\$81.40	\$71.45	\$69.10	\$68.55	\$67.80	\$67.25	\$66.55	\$65.90
.5001 - .5311	\$251.10	\$164.90	\$133.25	\$100.65	\$98.60	\$92.60	\$84.25	\$78.15	\$77.50	\$76.45	\$75.55	\$73.95	\$73.85
.5313 - .5624	\$267.85	\$177.50	\$147.45	\$112.00	\$110.65	\$98.90	\$93.45	\$87.20	\$84.40	\$84.00	\$83.10	\$82.00	\$81.60
.5626 - .5937	\$277.25	\$186.80	\$156.65	\$129.00	\$120.80	\$109.10	\$103.60	\$97.65	\$94.65	\$89.95	\$89.10	\$87.65	\$85.05
.5939 - .6249	\$277.45	\$187.20	\$157.00	\$129.35	\$121.25	\$109.50	\$104.00	\$97.90	\$95.00	\$94.50	\$93.25	\$92.45	\$91.80
.6251 - .6874	\$283.85	\$201.25	\$170.35	\$142.85	\$134.35	\$126.45	\$116.75	\$110.35	\$107.50	\$102.65	\$101.70	\$100.15	\$97.75
.6876 - .7187	\$302.50	\$209.80	\$179.95	\$151.75	\$143.50	\$131.65	\$126.15	\$119.80	\$117.00	\$112.05	\$111.15	\$106.40	\$104.75
.7189 - .7499	\$305.90	\$212.95	\$182.40	\$156.00	\$147.65	\$135.65	\$129.85	\$123.55	\$120.75	\$120.35	\$119.85	\$118.70	\$118.65
.7501 - .8124	\$316.70	\$224.00	\$193.30	\$167.90	\$159.50	\$147.60	\$141.75	\$135.45	\$134.90	\$134.25	\$133.55	\$133.00	\$132.65
.8126 - .8437	\$327.65	\$234.85	\$204.10	\$179.95	\$171.40	\$159.50	\$153.75	\$147.50	\$144.70	\$139.70	\$138.80	\$136.90	\$136.20
.8439 - .8749	\$330.35	\$237.70	\$206.75	\$182.85	\$174.35	\$162.30	\$156.60	\$150.80	\$147.60	\$146.60	\$145.85	\$143.70	\$143.15
.8751 - .9374	\$341.65	\$248.90	\$217.90	\$195.20	\$186.80	\$174.90	\$169.05	\$162.80	\$160.00	\$155.10	\$154.20	\$150.10	\$146.60
.9376 - .9687	\$354.55	\$261.75	\$253.95	\$209.45	\$201.05	\$189.00	\$183.30	\$176.95	\$174.10	\$169.35	\$168.25	\$164.40	\$160.55
.9689 - .9999	\$357.15	\$264.40	\$236.55	\$212.35	\$203.95	\$191.85	\$186.30	\$180.00	\$177.05	\$172.20	\$171.30	\$169.25	\$167.60
1.0001-1.0624	\$419.00	\$321.90	\$311.65	\$291.05	\$280.80	\$267.20	\$256.90	\$243.25	\$233.10	\$219.35	\$209.15	\$188.65	\$181.60
1.0626-1.1249	\$439.65	\$343.90	\$332.75	\$311.05	\$299.85	\$285.20	\$277.55	\$259.45	\$248.20	\$233.55	\$222.45	\$209.45	\$202.45
1.1251-1.1874	\$468.15	\$372.85	\$361.25	\$339.75	\$328.60	\$313.90	\$302.95	\$288.30	\$277.25	\$262.60	\$251.55	\$237.75	\$227.00
1.1876-1.2499	\$492.25	\$395.50	\$383.45	\$361.05	\$349.00	\$333.45	\$321.50	\$305.95	\$293.35	\$278.50	\$267.80	\$258.35	\$244.35
1.2501-1.3749	\$555.10	\$453.85	\$440.80	\$417.55	\$404.75	\$388.50	\$375.75	\$359.45	\$346.70	\$330.35	\$317.65	\$301.15	\$282.80
1.3751-1.4999	\$610.35	\$512.35	\$498.15	\$473.40	\$459.10	\$441.40	\$427.20	\$409.40	\$395.20	\$377.50	\$349.30	\$336.85	\$324.70
1.5001-1.6249	\$774.40	\$658.15	\$641.75	\$625.70	\$610.05	\$594.80							
1.6251-1.7499	\$891.75	\$758.00	\$739.00	\$720.55	\$702.45	\$684.95							
1.7501-1.8749	\$1024.20	\$870.50	\$848.70	\$827.50	\$806.80	\$786.60							
1.8751-1.9999	\$1198.95	\$1019.15	\$993.65	\$968.80	\$944.50	\$920.95							

Please Call
For Pricing



437 | Right Hand Spiral

INTERMEDIATE SIZES

Size Range	LIST PRICE EACH IN QUANTITIES OF:												
	1	2	3-5	6-7	8-11	12-17	18-23	24-35	36-47	48-59	60-71	72-95	96+
.2363 - .2969	\$233.55	\$158.75	\$125.10	\$95.05	\$87.70	\$78.35	\$71.00	\$67.40	\$63.40	\$60.05	\$59.65	\$59.10	\$58.55
.2970 - .3124	\$227.05	\$152.25	\$118.65	\$87.85	\$80.45	\$71.55	\$63.95	\$60.35	\$59.70	\$58.75	\$58.10	\$57.80	\$57.45
.3126 - .3437	\$237.25	\$162.60	\$128.70	\$91.70	\$88.85	\$82.05	\$74.90	\$71.00	\$67.40	\$64.15	\$63.40	\$63.00	\$62.65
.3439 - .3594	\$238.15	\$163.50	\$129.65	\$100.00	\$92.70	\$83.30	\$74.90	\$72.05	\$68.40	\$65.10	\$64.40	\$63.75	\$63.40
.3595 - .3749	\$231.35	\$156.35	\$122.75	\$92.20	\$84.85	\$76.00	\$69.80	\$67.50	\$66.75	\$65.10	\$64.80	\$64.45	\$64.25
.3751 - .3906	\$242.15	\$167.50	\$131.30	\$104.40	\$97.10	\$88.95	\$81.45	\$77.80	\$74.15	\$70.25	\$69.85	\$69.20	\$68.70
.3907 - .4219	\$245.15	\$170.45	\$136.65	\$107.70	\$100.40	\$90.70	\$83.35	\$79.65	\$76.05	\$72.65	\$72.00	\$71.55	\$71.45
.4220 - .4374	\$240.60	\$165.95	\$130.10	\$102.85	\$95.50	\$85.95	\$78.35	\$74.75	\$71.00	\$69.95	\$69.20	\$68.25	\$67.70
.4376 - .4844	\$251.70	\$176.90	\$143.15	\$114.85	\$107.60	\$97.45	\$86.55	\$84.80	\$82.95	\$80.35	\$79.65	\$78.85	\$78.15
.4845 - .4999	\$245.80	\$171.05	\$137.20	\$108.30	\$101.10	\$91.15	\$85.95	\$77.35	\$76.75	\$76.00	\$75.30	\$74.50	\$73.80
.5001 - .5311	\$281.25	\$184.70	\$149.20	\$110.35	\$112.70	\$103.75	\$94.35	\$87.50	\$87.35	\$85.65	\$85.30	\$82.95	\$82.70
.5313 - .5624	\$300.05	\$198.90	\$165.10	\$125.45	\$123.90	\$110.70	\$104.65	\$97.70	\$94.50	\$94.15	\$93.05	\$92.40	\$91.35
.5626 - .5937	\$310.45	\$209.20	\$175.50	\$144.40	\$135.30	\$122.25	\$116.05	\$109.25	\$106.05	\$100.80	\$99.70	\$98.05	\$95.20
.5939 - .6249	\$310.80	\$209.55	\$175.90	\$144.85	\$135.75	\$122.60	\$116.45	\$109.65	\$106.35	\$105.80	\$104.40	\$103.55	\$102.85
.6251 - .6874	\$329.30	\$225.45	\$190.75	\$160.00	\$150.45	\$141.65	\$130.70	\$123.55	\$120.50	\$115.00	\$113.95	\$112.20	\$109.50
.6876 - .7187	\$338.75	\$234.95	\$200.30	\$170.00	\$160.75	\$147.50	\$141.25	\$134.20	\$131.00	\$125.55	\$124.55	\$119.25	\$117.35
.7189 - .7499	\$342.60	\$238.55	\$204.20	\$174.70	\$165.45	\$151.80	\$145.50	\$138.50	\$135.20	\$134.80	\$134.25	\$133.00	\$132.95
.7501 - .8124	\$354.80	\$250.85	\$216.40	\$188.05	\$178.60	\$165.15	\$158.80	\$151.70	\$151.10	\$150.35	\$149.50	\$148.70	\$148.65
.8126 - .8437	\$366.95	\$263.00	\$228.60	\$201.50	\$192.00	\$178.65	\$172.15	\$165.15	\$162.65	\$162.05	\$156.45	\$153.30	\$152.50
.8439 - .8749	\$370.10	\$266.15	\$231.50	\$204.70	\$195.25	\$181.85	\$175.40	\$168.90	\$165.40	\$164.25	\$163.35	\$160.95	\$160.30
.8751 - .9374	\$382.60	\$278.70	\$244.00	\$218.65	\$209.15	\$195.90	\$189.40	\$182.40	\$179.20	\$173.75	\$172.70	\$168.20	\$164.25
.9376 - .9687	\$397.10	\$293.20	\$258.60	\$234.60	\$225.05	\$211.70	\$205.25	\$198.20	\$195.10	\$189.60	\$188.50	\$184.15	\$179.90
.9689 - .9999	\$399.95	\$296.15	\$261.60	\$237.80	\$228.50	\$214.95	\$208.60	\$201.65	\$198.35	\$192.90	\$191.85	\$189.55	\$187.75
1.0001-1.0624	\$469.35	\$360.55	\$349.45	\$326.55	\$314.55	\$299.20	\$287.80	\$272.45	\$261.10	\$245.80	\$234.30	\$211.30	\$203.35
1.0626-1.1249	\$493.45	\$385.15	\$372.55	\$348.40	\$335.90	\$319.45	\$310.85	\$290.45	\$278.00	\$261.60	\$249.05	\$234.60	\$226.75
1.1251-1.1874	\$524.40	\$417.60	\$404.65	\$380.40	\$368.00	\$351.65	\$339.25	\$322.95	\$310.40	\$294.15	\$281.70	\$266.25	\$254.30
1.1876-1.2499	\$551.35	\$443.00	\$429.50	\$410.60	\$390.90	\$373.45	\$360.00	\$342.75	\$329.25	\$311.90	\$298.45	\$289.40	\$273.70
1.2501-1.3749	\$621.75	\$508.25	\$493.70	\$467.65	\$453.35	\$435.10	\$420.75	\$402.60	\$388.25	\$370.10	\$355.70	\$327.70	\$316.70
1.3751-1.4999	\$627.55	\$573.80	\$557.90	\$530.15	\$514.25	\$494.40	\$478.40	\$458.60	\$442.70	\$422.80	\$391.10	\$377.30	\$363.65
1.5001-1.6249	\$811.15	\$689.55	\$672.25	\$655.45	\$639.05	\$623.05							
1.6251-1.7499	\$934.25	\$794.05	\$774.20	\$754.85	\$735.95	\$717.55							
1.7501-1.8749	\$1072.95	\$911.90	\$889.15	\$866.80	\$845.25	\$824.05							
1.8751-1.9999	\$1256.05	\$1067.60	\$1040.95	\$1014.90	\$989.55	\$964.75							

Please Call
For Pricing





30 Hand Reamers | Straight Shank

HIGH SPEED STEEL

400 | Straight Flute



403 | Left Hand Spiral



DIAMETER	FRACTION	FLUTE LENGTH	NUMBER FLUTES	OVERALL LENGTH	SHANK DIAMETER	400 LIST PRICE	403 LIST PRICE
0.0625	1/16	1	4	2	.0625	\$58.35	\$68.55
0.0781	5/64	1	4	2	.0781	\$58.35	\$68.55
0.0938	3/32	1-1/4	4	2-1/2	.0938	\$58.35	\$68.55
0.1094	7/64	1-1/4	4	2-1/2	.1094	\$58.35	\$68.55
0.1250	1/8	1-1/2	4	3	.1250	\$55.05	\$67.65
0.1406	9/64	1-5/8	4	3-1/4	.1406	\$55.05	\$67.65
0.1562	5/32	1-5/8	4	3-1/4	.1562	\$59.45	\$72.95
0.1719	11/64	1-3/4	6	3-1/2	.1719	\$59.45	\$72.95
0.1875	3/16	1-3/4	6	3-1/2	.1875	\$58.35	\$72.95
0.2031	13/64	1-7/8	6	3-3/4	.2031	\$58.35	\$72.95
0.2188	7/32	1-7/8	6	3-3/4	.2188	\$64.35	\$71.10
0.2344	15/64	2	6	4	.2344	\$64.35	\$71.10
0.2500	1/4	2	6	4	.2500	\$63.95	\$70.80
0.2656	17/64	2-1/8	6	4-1/4	.2656	\$64.35	\$71.10
0.2812	9/32	2-1/8	6	4-1/4	.2812	\$69.25	\$78.60
0.2969	19/64	2-1/4	6	4-1/2	.2969	\$69.25	\$78.60
0.3125	5/16	2-1/4	6	4-1/2	.3125	\$67.65	\$77.80
0.3438	11/32	2-3/8	6	4-3/4	.3438	\$78.60	\$87.50
0.3750	3/8	2-1/2	6	5	.3750	\$76.75	\$87.25
0.4062	13/32	2-5/8	6	5-1/4	.4062	\$89.00	\$96.90
0.4375	7/16	2-3/4	6	5-1/2	.4375	\$87.20	\$97.25
0.4688	15/32	2-7/8	6	5-3/4	.4688	\$96.45	\$107.35
0.5000	1/2	3	6	6	.5000	\$92.75	\$104.75
0.5312	17/32	3-1/8	6	6-1/4	.5312	\$100.15	\$122.30
0.5625	9/16	3-1/4	8	6-1/2	.5625	\$107.25	\$122.95
0.5938	19/32	3-3/8	8	6-3/4	.5938	\$119.10	\$133.75
0.6250	5/8	3-1/2	8	7	.6250	\$115.55	\$131.30
0.6562	21/32	3-11/16	8	7-3/8	.6562	\$132.90	\$147.80
0.6875	11/16	3-7/8	8	7-3/4	.6875	\$130.30	\$147.40
0.7188	23/32	4-1/16	8	8-1/8	.7188	\$142.70	\$158.90
0.7500	3/4	4-3/16	8	8-3/8	.7500	\$139.00	\$155.95
0.7812	25/32	4-3/8	8	8-3/4	.7812	\$152.45	\$169.40
0.8125	13/16	4-9/16	8	9-1/8	.8125	\$160.00	\$169.40
0.8438	27/32	4-11/16	8	9-3/8	.8438	\$166.85	\$185.45
0.8750	7/8	4-7/8	8	9-3/4	.8750	\$168.35	\$185.45
0.9062	29/32	5	8	10	.9062	\$186.05	\$206.70
0.9375	15/16	5-1/8	8	10-1/4	.9375	\$168.45	\$206.70
0.9688	31/32	5-5/16	8	10-5/8	.9688	\$204.75	\$227.55
1.0000	1	5-7/16	8	10-7/8	1.0000	\$203.90	\$227.55
1.1250	1-1/8	5-13/16	8	11-5/8	1.1250	\$266.50	\$292.90
1.2500	1-1/4	6-1/8	10	12-1/4	1.2500	\$327.20	\$360.45
1.3750	1-3/8	6-5/16	10	12-5/8	1.3750	\$386.75	\$425.35
1.5000	1-1/2	6-1/2	10	13	1.5000	\$456.45	\$503.70

400 | Straight Flute

INTERMEDIATE SIZES

Size Range	LIST PRICE EACH IN QUANTITIES OF:												
	1	2	3-5	6-7	8-11	12-17	18-23	24-35	36-47	48-59	60-71	72-95	96+
.0626 - .1093	\$187.75	\$140.00	\$111.00	\$82.05	\$74.85	\$74.25	\$62.70	\$60.35	\$59.90	\$59.65	\$59.25	\$58.95	\$58.70
.1095 - .1405	\$183.50	\$136.95	\$107.90	\$71.70	\$65.20	\$64.40	\$59.65	\$57.05	\$57.20	\$56.75	\$56.35	\$55.90	\$55.45
.1407 - .1718	\$189.10	\$141.15	\$112.05	\$83.00	\$75.80	\$68.60	\$63.80	\$61.40	\$61.10	\$60.85	\$60.70	\$60.30	\$59.90
.1720 - .2030	\$185.85	\$140.00	\$111.00	\$82.05	\$74.80	\$67.50	\$62.70	\$60.35	\$59.90	\$59.65	\$59.25	\$58.95	\$58.70
.2032 - .2655	\$195.05	\$145.55	\$116.45	\$87.40	\$80.30	\$72.95	\$68.15	\$65.75	\$65.55	\$65.20	\$64.90	\$64.75	\$64.50
.2657 - .2968	\$200.85	\$149.90	\$120.85	\$91.80	\$84.65	\$77.35	\$72.60	\$72.30	\$72.05	\$71.45	\$70.90	\$70.40	\$69.85
.2970 - .3124	\$223.90	\$148.65	\$119.60	\$90.50	\$83.35	\$76.05	\$71.35	\$70.80	\$70.30	\$69.80	\$69.20	\$68.70	\$68.15
.3126 - .3437	\$212.35	\$158.35	\$129.35	\$100.40	\$93.15	\$85.75	\$81.00	\$81.00	\$80.75	\$80.50	\$80.15	\$79.65	\$79.05
.3439 - .3749	\$208.45	\$156.65	\$127.65	\$98.55	\$91.40	\$84.05	\$79.35	\$79.00	\$78.60	\$78.25	\$77.85	\$77.50	\$77.10
.3751 - .4061	\$212.85	\$167.85	\$138.80	\$109.80	\$102.55	\$95.25	\$90.50	\$90.35	\$90.10	\$89.90	\$89.60	\$89.45	\$89.25
.4063 - .4374	\$214.35	\$166.15	\$137.30	\$108.15	\$101.00	\$93.75	\$88.95	\$88.65	\$88.40	\$88.20	\$87.90	\$87.70	\$87.40
.4376 - .4687	\$225.25	\$174.70	\$145.70	\$116.65	\$109.50	\$102.15	\$97.35	\$97.30	\$97.10	\$96.95	\$96.85	\$96.75	\$96.65
.4689 - .4999	\$221.05	\$171.30	\$142.30	\$118.50	\$106.10	\$98.80	\$94.00	\$93.75	\$93.55	\$93.40	\$93.25	\$93.05	\$92.95
.5001 - .5311	\$260.30	\$213.50	\$182.45	\$181.30	\$175.45	\$169.50	\$163.55	\$157.70	\$151.75	\$145.90	\$140.00	\$134.05	\$128.15
.5313 - .5624	\$253.40	\$207.75	\$178.20	\$171.75	\$165.30	\$158.80	\$152.45	\$145.95	\$139.45	\$133.05	\$126.55	\$120.40	\$113.70
.5626 - .5937	\$273.00	\$223.75	\$189.80	\$183.40	\$176.95	\$170.55	\$164.15	\$157.70	\$151.30	\$144.85	\$138.35	\$132.00	\$125.55
.5939 - .6249	\$268.00	\$219.65	\$186.80	\$180.65	\$174.45	\$168.30	\$162.20	\$156.05	\$149.90	\$143.75	\$137.60	\$131.40	\$125.25
.6251 - .6561	\$277.55	\$227.55	\$193.95	\$188.45	\$182.90	\$177.35	\$171.75	\$166.20	\$160.65	\$155.10	\$149.60	\$144.00	\$138.35
.6563 - .6874	\$290.80	\$238.35	\$202.20	\$195.70	\$189.10	\$183.25	\$176.05	\$169.50	\$162.95	\$156.45	\$149.90	\$143.35	\$136.85
.6876 - .7187	\$307.00	\$251.65	\$214.25	\$207.80	\$201.25	\$194.70	\$188.25	\$181.70	\$175.20	\$168.50	\$162.20	\$155.70	\$149.15
.7189 - .7499	\$302.20	\$247.75	\$210.45	\$204.00	\$197.45	\$191.10	\$184.45	\$178.00	\$171.50	\$165.00	\$158.15	\$152.00	\$145.45
.7501 - .8124	\$321.55	\$263.50	\$223.45	\$215.75	\$208.10	\$200.35	\$192.70	\$185.05	\$177.35	\$169.60	\$162.00	\$154.30	\$146.60
.8126 - .8749	\$340.75	\$279.40	\$238.55	\$232.10	\$225.75	\$219.35	\$213.00	\$206.70	\$200.25	\$193.90	\$187.50	\$181.10	\$174.70
.8751 - .9374	\$364.05	\$298.40	\$253.70	\$245.95	\$238.20	\$230.45	\$222.65	\$214.95	\$207.30	\$199.50	\$191.75	\$183.95	\$176.20
.9376 - .9999	\$384.05	\$314.75	\$269.85	\$263.85	\$257.85	\$251.90	\$245.90	\$239.90	\$233.85	\$227.90	\$222.20	\$215.90	\$209.85
1.0001-1.1249	\$505.95	\$414.70	\$356.50	\$349.35	\$342.35	\$335.50	\$328.85	\$321.05	\$315.80	\$309.40	\$303.30	\$294.55	\$287.85
1.1251-1.2499	\$621.20	\$509.20	\$437.70	\$428.95	\$420.35	\$403.60	\$395.45	\$387.55	\$379.80	\$372.20	\$364.75	\$350.20	\$343.50
1.2501-1.3749	\$734.20	\$601.80	\$517.30	\$496.65	\$486.75	\$476.95	\$467.40	\$458.10	\$448.95	\$439.95	\$431.20	\$418.20	\$406.05
1.3751-1.4999	\$865.05	\$710.30	\$610.65	\$586.25	\$574.50	\$563.00	\$551.85	\$540.75	\$529.90	\$519.35	\$508.90	\$493.70	\$479.30

403 | Left Hand Spiral

INTERMEDIATE SIZES

Size Range	LIST PRICE EACH IN QUANTITIES OF:												
	1	2	3-5	6-7	8-11	12-17	18-23	24-35	36-47	48-59	60-71	72-95	96+
.0626 - .1093	\$197.00	\$149.25	\$142.20	\$135.60	\$128.90	\$122.10	\$115.35	\$108.75	\$102.00	\$95.25	\$88.65	\$81.80	\$75.15
.1095 - .1405	\$196.00	\$148.55	\$141.50	\$134.75	\$128.05	\$121.30	\$114.65	\$107.85	\$101.20	\$94.45	\$87.80	\$81.10	\$74.40
.1407 - .1718	\$202.40	\$153.30	\$151.15	\$144.10	\$136.95	\$129.85	\$122.75	\$115.65	\$108.55	\$101.35	\$94.30	\$87.25	\$80.05
.1720 - .2030	\$202.80	\$153.60	\$146.75	\$140.00	\$133.30	\$126.60	\$119.90	\$113.25	\$106.50	\$99.80	\$93.05	\$86.40	\$79.65
.2032 - .2655	\$200.20	\$151.65	\$144.85	\$138.10	\$131.40	\$124.70	\$118.05	\$111.30	\$104.60	\$97.90	\$91.20	\$84.45	\$77.75
.2657 - .2968	\$200.20	\$151.65	\$144.85	\$138.10	\$131.40	\$124.70	\$118.05	\$111.30	\$104.60	\$97.90	\$91.20	\$84.45	\$77.75
.2970 - .3124	\$208.20	\$157.75	\$150.90	\$144.25	\$137.60	\$130.95	\$124.30	\$117.65	\$111.00	\$104.40	\$97.90	\$91.10	\$84.40
.3126 - .3437	\$219.85	\$166.55	\$159.90	\$153.35	\$146.75	\$140.25	\$133.60	\$127.00	\$120.40	\$113.85	\$107.25	\$100.70	\$93.90
.3439 - .3749	\$216.15	\$166.20	\$159.55	\$153.05	\$146.50	\$139.90	\$133.35	\$126.85	\$120.30	\$113.80	\$107.20	\$100.65	\$94.05
.3751 - .4061	\$227.55	\$175.05	\$168.30	\$161.80	\$155.40	\$148.80	\$142.40	\$135.90	\$129.35	\$122.90	\$116.40	\$109.95	\$103.40
.4063 - .4374	\$228.00	\$175.40	\$168.60	\$162.15	\$155.60	\$149.20	\$142.65	\$136.20	\$129.65	\$123.10	\$116.75	\$110.25	\$103.80
.4376 - .4687	\$240.00	\$184.65	\$178.15	\$171.70	\$165.20	\$158.80	\$152.45	\$146.00	\$139.40	\$133.10	\$126.60	\$120.25	\$113.80
.4689 - .4999	\$236.95	\$182.25	\$175.75	\$169.35	\$162.90	\$156.40	\$149.95	\$143.50	\$137.00	\$130.55	\$124.15	\$117.65	\$111.20
.5001 - .5311	\$255.65	\$224.20	\$190.30	\$184.10	\$177.90	\$171.75	\$165.55	\$159.40	\$153.15	\$147.00	\$140.85	\$134.65	\$128.50
.5313 - .5624	\$254.50	\$221.40	\$188.25	\$182.35	\$176.35	\$170.45	\$164.45	\$158.55	\$152.65	\$146.65	\$140.75	\$134.80	\$128.95
.5626 - .5937	\$270.15	\$235.10	\$200.05	\$194.00	\$188.00	\$182.00	\$175.95	\$169.95	\$163.90	\$157.85	\$151.80	\$145.85	\$139.80
.5939 - .6249	\$273.45	\$230.90	\$196.60	\$190.65	\$184.70	\$178.80	\$172.85	\$166.90	\$160.95	\$155.05	\$149.10	\$142.40	\$137.20
.6251 - .6561	\$282.90	\$238.90	\$204.40	\$199.20	\$194.10	\$189.00	\$183.80	\$178.65	\$173.50	\$168.35	\$163.25	\$158.10	\$152.90
.6563 - .6874	\$296.40	\$250.30	\$213.40	\$207.35	\$201.40	\$195.40	\$189.40	\$183.40	\$177.35	\$171.40	\$165.45	\$159.40	\$153.35
.6876 - .7187	\$312.90	\$264.15	\$225.55	\$219.55	\$213.50	\$207.40	\$201.30	\$195.25	\$189.15	\$183.15	\$177.15	\$171.05	\$165.00
.7189 - .7499	\$308.05	\$260.05	\$221.90	\$215.90	\$209.85	\$203.90	\$197.90	\$191.85	\$185.95	\$179.95	\$173.85	\$167.85	\$161.85
.7501 - .8124	\$327.70	\$276.75	\$236.40	\$230.35	\$224.25	\$218.10	\$212.05	\$205.90	\$199.85	\$193.85	\$187.70	\$181.60	\$175.50
.8126 - .8749	\$347.35	\$293.35	\$251.05	\$245.05	\$239.10	\$233.10	\$227.15	\$221.20	\$215.20	\$209.20	\$203.35	\$197.35	\$191.35
.8751 - .9374	\$370.90	\$313.25	\$268.85	\$263.20	\$257.55	\$251.90	\$246.25	\$240.60	\$234.65	\$229.30	\$223.70	\$218.00	\$212.10
.9376 - .9999	\$391.45	\$330.55	\$284.50	\$279.35	\$274.10	\$268.95	\$263.80	\$258.55	\$253.40	\$248.25	\$243.05	\$238.00	\$232.70
1.0001-1.1249	\$539.75	\$455.85	\$391.85	\$384.05	\$376.35	\$361.25	\$354.10	\$346.90	\$340.00	\$333.25	\$326.55	\$320.00	\$307.60
1.1251-1.2499	\$664.20	\$560.90	\$482.10	\$472.45	\$463.00	\$444.55	\$435.60	\$426.85	\$418.40	\$409.95	\$401.85	\$389.75	\$378.45
1.2501-1.3749	\$783.65	\$674.50	\$568.90	\$557.50	\$546.40	\$524.55	\$514.00	\$503.75	\$493.70	\$483.75	\$474.15	\$459.90	\$446.60
1.3751-1.4999	\$928.20	\$783.80	\$673.75	\$660.25	\$647.05	\$621.20	\$608.80	\$596.60	\$585.35	\$572.95	\$561.55	\$544.65	\$528.90



32 Valve Guide Reamers

HIGH SPEED STEEL



500
Left Hand
Spiral

FLUTE SIZE	PILOT SIZE	VALVE STEM	OVERALL LENGTH	FLUTE LENGTH	PILOT LENGTH	SHANK DIAMETER	SQUARE SIZE	LIST PRICE
.2165	.2035	5.5mm	7	2-7/8	1	.2115	.1820	\$65.10
.2362	.2230	6mm	7	2-7/8	1	.2310	.1820	\$65.10
.2600	.2470	1/4	7	2-7/8	1	.2550	.1820	\$65.10
.2750	.2620	7mm	7	2-7/8	1	.2700	.1820	\$65.10
.2756	.2626	7mm	7	2-7/8	1	.2700	.1820	\$65.10
.2760	.2630	7mm	7	2-7/8	1	.2710	.1820	\$65.10
.2770	.2640	7mm	7	2-7/8	1	.2720	.1820	\$65.10
.3110	.2980	5/16	7	2-7/8	1	.3060	.2450	\$65.10
.3120	.2990	5/16	7	2-7/8	1	.3070	.2450	\$65.10
.3130	.3000	5/16	7	2-7/8	1	.3080	.2450	\$65.10
.3140	.3010	5/16	7	2-7/8	1	.3090	.2450	\$65.10
.3150	.3020	8mm	7	2-7/8	1	.3100	.2450	\$65.10
.3160	.3030	5/16	7	2-7/8	1	.3110	.2450	\$65.10
.3170	.3040	5/16	7	2-7/8	1	.3120	.2450	\$65.10
.3180	.3050	5/16	7	2-7/8	1	.3130	.2450	\$65.10
.3270	.3140	5/16	7	2-7/8	1	.3220	.2450	\$65.10
.3420	.3290	11/32	7	2-7/8	1	.3370	.2450	\$68.15
.3430	.3300	11/32	7	2-7/8	1	.3380	.2450	\$68.15
.3435	.3305	11/32	7	2-7/8	1	.3385	.2450	\$68.15
.3440	.3310	11/32	7	2-7/8	1	.3390	.2450	\$68.15
.3450	.3320	11/32	7	2-7/8	1	.3400	.2450	\$68.15
.3460	.3330	11/32	7	2-7/8	1	.3410	.2450	\$68.15
.3543	.3413	9mm	7	2-7/8	1	.3490	.2450	\$68.15
.3580	.3450	3/8	7	2-7/8	1	.3530	.2450	\$68.15
.3730	.3600	3/8	7	2-7/8	1	.3680	.2450	\$68.15
.3740	.3610	3/8	7	2-7/8	1	.3690	.2450	\$68.15
.3750	.3620	3/8	7	2-7/8	1	.3700	.2450	\$68.15
.4370	.4240	7/16	7	2-7/8	1	.4320	.2450	\$71.25
.4530	.4400	11.5mm	7	2-7/8	1	.4480	.2450	\$71.25
.5000	.4870	1/2	7	2-7/8	1	.4950	.2450	\$71.25

INTERMEDIATE SIZES

SIZE RANGE	1	2	3-5	6-7	8-11	12+
.1969 - .2164	\$90.10	\$85.90	\$81.30	\$76.80	\$72.20	\$65.10
.2166 - .3179	\$92.60	\$88.05	\$83.50	\$79.00	\$74.40	\$67.00
.3181 - .4330	\$95.00	\$90.10	\$85.60	\$81.15	\$76.60	\$68.95
.4331 - .5312	\$97.30	\$92.50	\$87.90	\$83.40	\$78.95	\$71.00
.5313 - .6250	\$97.40	\$93.25	\$88.75	\$84.30	\$79.85	\$71.80
Above .6250	Please call for pricing					





451 | Straight Shank

NO. OF TAPER	SMALL END	LARGE END	SHANK DIAMETER	NO. FLUTES	FLUTE LENGTH	OVERALL LENGTH	451 LIST PRICE
0	.2503	.3674	5/16	6	2-1/4	3-3/4	\$100.15
1	.3674	.5170	7/16	6	3	5	\$130.45
2	.5696	.7444	5/8	8	3-1/2	6	\$152.45
3	.7748	.9881	7/8	8	4-1/4	7-1/4	\$219.75
4	1.0167	1.2893	1-1/8	8	5-1/4	8-1/2	\$321.75
5	1.4717	1.8005	1-1/2	10	6-1/4	9-3/4	\$583.20



457 | Taper Shank

NO. OF TAPER	SMALL END	LARGE END	TAPER SHANK NO.	NO. FLUTES	FLUTE LENGTH	OVERALL LENGTH	457 LIST PRICE
0	.2503	.3674	0	6	2-1/4	5-11/32	\$151.15
1	.3674	.5170	1	6	3	6-5/16	\$166.20
2	.5696	.7444	2	8	3-1/2	7-3/8	\$200.30
3	.7748	.9881	3	8	4-1/4	8-7/8	\$274.95
4	1.0167	1.2893	4	8	5-1/4	10-7/8	\$435.85
5	1.4717	1.8005	5	10	6-1/4	13-1/8	\$866.75

Brown & Sharpe Taper Finishing Reamers



496 | Straight Shank

NO. OF TAPER	SMALL END	LARGE END	SHANK DIAMETER	NO. FLUTES	FLUTE LENGTH	OVERALL LENGTH	496 LIST PRICE
1	.1974	.3176	9/32	6	2-7/8	4-3/4	\$127.35
2	.2474	.3781	11/32	6	3-1/8	5-1/8	\$143.50
3	.3099	.4510	13/32	6	3-3/8	5-1/2	\$152.00
4	.3474	.5017	7/16	6	3-11/16	5-7/8	\$159.75
5	.4474	.6145	9/16	6	4	6-3/8	\$168.25
6	.4974	.6808	5/8	8	4-3/8	6-7/8	\$177.85
7	.5974	.8011	3/4	8	4-7/8	7-1/2	\$190.85
8	.7474	.9770	13/16	8	5-1/2	8-1/8	\$259.10
9	.8974	1.1530	1	8	6-1/8	8-7/8	\$334.55
10	1.0420	1.3376	1-1/8	8	6-7/8	9-3/4	\$433.25

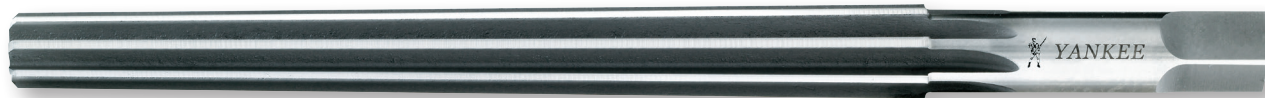




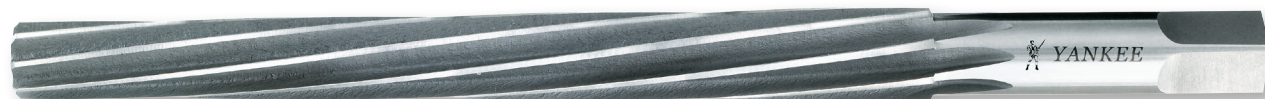
34 Taper Pin Reamers

HIGH SPEED STEEL

487 | Straight Flute



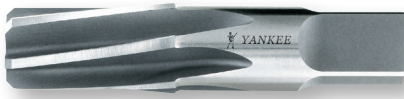
491 | Left Hand Spiral



488 | Left Hand Helical



SIZE	DIAMETER SMALL END	DIAMETER LARGE END	FLUTE LENGTH	OVERALL LENGTH	SHANK DIAMETER	487 LIST PRICE	# OF FL.	491 LIST PRICE	# OF FL.	488 LIST PRICE	# OF FL.
7/0	.0497	.0666	13/16	1-13/16	5/64	\$61.10	4	\$63.35	4	\$57.20	2
6/0	.0611	.0806	15/16	1-15/16	3/32	\$61.10	4	\$63.35	4	\$57.20	2
5/0	.0719	.0966	1-3/16	2-3/16	7/64	\$55.65	4	\$61.10	4	\$55.30	2
4/0	.0869	.1142	1-5/16	2-5/16	1/8	\$55.65	4	\$61.10	4	\$55.30	3
3/0	.1029	.1302	1-5/16	2-5/16	9/64	\$55.65	4	\$61.10	4	\$55.30	3
2/0	.1137	.1462	1-9/16	2-9/16	5/32	\$49.80	4	\$53.35	4	\$52.75	3
0	.1287	.1638	1-11/16	2-15/16	11/64	\$47.90	4	\$51.00	4	\$51.80	3
1	.1447	.1798	1-11/16	2-15/16	3/16	\$46.40	6	\$51.80	6	\$52.55	3
2	.1605	.2008	1-15/16	3-3/16	13/64	\$46.40	6	\$51.80	6	\$59.45	3
3	.1813	.2294	2-5/16	3-11/16	15/64	\$46.40	6	\$51.80	6	\$61.55	3
4	.2071	.2604	2-9/16	4-1/16	17/64	\$51.80	6	\$56.45	6	\$69.25	3
5	.2409	.2994	2-13/16	4-5/16	5/16	\$55.65	6	\$60.25	6	\$75.70	3
6	.2773	.3540	3-11/16	5-7/16	23/64	\$67.20	6	\$74.20	6	\$88.85	3
7	.3297	.4220	4-7/16	6-5/16	13/32	\$86.55	6	\$93.85	6	\$109.70	3
8	.3971	.5050	5-3/16	7-3/16	7/16	\$112.85	6	\$123.50	6	\$131.10	3
9	.4805	.6066	6-1/16	8-5/16	9/16	\$134.40	6	\$146.40	6	\$141.50	4
10	.5799	.7216	6-13/16	9-5/16	5/8	\$147.65	8	\$162.25	8	\$179.60	4
11	.7060	.8780	8-1/4	11-1/4	3/4	\$161.55	8	\$177.75	8	\$195.50	4
12	.8420	1.0500	10	13-7/8	3/4	\$249.95	8	\$275.00	8	\$302.55	4
13	1.0090	1.2590	12	16	1-1/16	\$484.85	10	\$533.35	10	\$817.40	6
14	1.2500	1.5420	14	18-1/4	1-13/32	\$783.80	10	\$862.15	10	\$946.65	6



600 | STD



604 | 4" OAL



601 | TAP



606 | 6" OAL

NOMINAL SIZE	SMALL DIAMETER	LARGE DIAMETER	# OF FLUTES	FLUTE LENGTH	OVERALL LENGTH	SHANK DIAMETER	SIZE OF SQUARE	600 LIST PRICE	601 LIST PRICE	604 LIST PRICE	606 LIST PRICE
1/16	.2320	.2750	6	3/4	2-1/8	.3125	.235	\$78.75	\$33.60	\$102.30	\$118.05
1/8	.3160	.3620	6	3/4	2-1/8	.4375	.328	\$73.35	\$33.60	\$95.45	\$110.05
1/4	.4060	.4720	6	1-1/16	2-7/16	.5625	.421	\$84.00	\$37.10	\$109.20	\$126.00
3/8	.5400	.6060	6	1-1/16	2-9/16	.7000	.531	\$93.45	\$47.05	\$121.40	\$140.20
1/2	.6650	.7510	6	1-3/8	3-1/8	.6875	.515	\$117.95	\$76.45	\$153.40	\$177.05
3/4	.8760	.9620	8	1-3/8	3-1/4	.9063	.679	\$163.70	\$106.10	Please Call For Pricing	
1	1.1030	1.2120	8	1-3/4	3-3/4	1.1250	.843	\$240.80	\$161.40		
1-1/4	1.4440	1.5530	10	1-3/4	4	1.3125	.984	\$405.55	\$230.40		
1-1/2	1.6840	1.7930	10	1-3/4	4-1/4	1.5000	1.125	\$512.80	\$309.10		
2	2.1590	2.2680	12	1-3/4	4-1/2	1.8750	1.406	\$684.95	\$420.45		





36 Capscrew Counterbores

HIGH SPEED STEEL

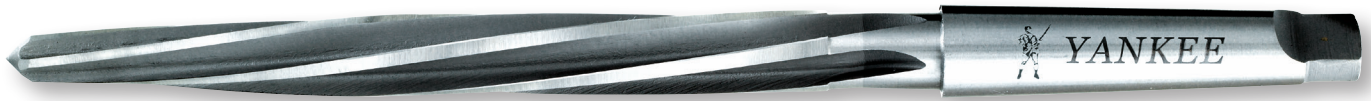
- 301** | On Size
- 302** | 1/64 Over Size
- 303** | 1/32 Over Size



CAPSCREW SIZE	STYLE	PILOT SIZE	PILOT LENGTH	FLUTE SIZE	BODY LENGTH	SHANK DIAMETER	OVERALL LENGTH	LIST PRICE
4	301	.1120	1/8	.1830	9/16	.1562	3-7/8	\$36.80
	302	.1270	1/8	.1990	9/16	.1562	3-7/8	\$36.80
	303	.1430	1/8	.2150	9/16	.1562	3-7/8	\$36.80
5	301	.1250	5/32	.2050	5/8	.1875	4-1/8	\$36.80
	302	.1400	5/32	.2210	5/8	.1875	4-1/8	\$36.80
	303	.1560	5/32	.2370	5/8	.1875	4-1/8	\$36.80
6	301	.1380	3/16	.2270	3/4	.2188	4-5/8	\$39.00
	302	.1530	3/16	.2430	3/4	.2188	4-5/8	\$39.00
	303	.1690	3/16	.2590	3/4	.2188	4-5/8	\$39.00
8	301	.1640	7/32	.2700	3/4	.2500	5	\$41.75
	302	.1790	7/32	.2860	3/4	.2500	5	\$41.75
	303	.1950	7/32	.3020	3/4	.2500	5	\$41.75
10	301	.1900	1/4	.3120	7/8	.2812	5-1/4	\$42.60
	302	.2050	1/4	.3280	7/8	.2812	5-1/4	\$42.60
	303	.2180	1/4	.3440	7/8	.2812	5-1/4	\$42.60
1/4	301	.2500	9/32	.3800	1	.3125	5-5/8	\$44.80
	302	.2650	9/32	.3960	1	.3125	5-5/8	\$44.80
	303	.2810	9/32	.4120	1	.3125	5-5/8	\$44.80
5/16	301	.3125	5/16	.4740	1	.3750	6-1/8	\$56.00
	302	.3280	5/16	.4890	1	.3750	6-1/8	\$56.00
	303	.3430	5/16	.5040	1	.3750	6-1/8	\$56.00
3/8	301	.3750	3/8	.5690	1-1/4	.5000	6-1/2	\$61.20
	302	.3900	3/8	.5850	1-1/4	.5000	6-1/2	\$61.20
	303	.4060	3/8	.6010	1-1/4	.5000	6-1/2	\$61.20
7/16	301	.4370	7/16	.6610	1-1/4	.5000	7	\$73.55
	302	.4520	7/16	.6760	1-1/4	.5000	7	\$73.55
	303	.4680	7/16	.6910	1-1/4	.5000	7	\$73.55
1/2	301	.5000	1/2	.7550	1-1/2	.5000	7-1/2	\$86.50
	302	.5150	1/2	.7710	1-1/2	.5000	7-1/2	\$86.50
	303	.5310	1/2	.7870	1-1/2	.5000	7-1/2	\$86.50
5/8	301	.6250	5/8	.9430	1-1/2	.6250	7-5/8	\$141.10
	302	.6400	5/8	.9590	1-1/2	.6250	7-5/8	\$141.10
	303	.6560	5/8	.9750	1-1/2	.6250	7-5/8	\$141.10
3/4	301	.7500	3/4	1.1310	1-5/8	.7500	7-3/4	\$164.15
	302	.7650	3/4	1.1470	1-5/8	.7500	7-3/4	\$164.15
	303	.7810	3/4	1.1630	1-5/8	.7500	7-3/4	\$164.15
7/8	301	.8750	7/8	1.3200	1-7/8	.8750	8	\$199.95
	302	.8910	7/8	1.3360	1-7/8	.8750	8	\$199.95
	303	.9060	7/8	1.3520	1-7/8	.8750	8	\$199.95
1	301	1.0000	1	1.5080	2	1.0000	8-1/2	\$253.50
	302	1.0150	1	1.5240	2	1.0000	8-1/2	\$253.50
	303	1.0310	1	1.5400	2	1.0000	8-1/2	\$253.50

METRIC SIZES

CAPSCREW SIZE	STYLE	PILOT SIZE	PILOT LENGTH	FLUTE SIZE	BODY LENGTH	SHANK DIAMETER	OVERALL LENGTH	LIST PRICE
3mm	302	.1377	5/32	.2362	5/8	.1875	4-1/8	\$36.80
4mm	302	.1772	7/32	.2953	3/4	.2500	5	\$41.75
5mm	302	.2165	9/32	.3543	1	.3125	5-5/8	\$44.80
6mm	302	.2559	5/16	.4134	1	.3750	6-1/8	\$56.00
8mm	302	.3346	3/8	.5315	1-1/4	.5000	6-1/2	\$61.20
10mm	302	.4134	7/16	.6496	1-1/4	.5000	7	\$73.55
12mm	302	.4921	1/2	.7283	1-1/2	.5000	7-1/2	\$86.50
14mm	302	.5709	5/8	.8465	1-1/2	.6250	7-5/8	\$141.10
16mm	302	.6500	5/8	.9645	1-1/2	.6250	7-5/8	\$141.10
18mm	302	.7280	3/4	1.0830	1-5/8	.7500	7-3/4	\$164.15
20mm	302	.8070	7/8	1.2010	1-7/8	.8750	8	\$199.95
22mm	302	.8860	7/8	1.3190	1-7/8	.8750	8	\$199.95
24mm	302	.9650	1	1.4370	2	1.0000	8-1/2	\$253.50



485 | Left Hand Spiral

DECIMAL	FRACTION	OVERALL LENGTH	MORSE TAPER NO.	# OF FLUTES	FLUTE LENGTH	SMALL DIAMETER	485 LIST PRICE
0.4375	7/16	9	2	5	5-1/8	.3050	\$86.75
0.5000	1/2	9	2	5	5-1/8	.3125	\$96.55
0.5625	9/16	9	2	5	5-1/8	.3430	\$96.55
0.6250	5/8	10	2	5	6-1/8	.3750	\$104.30
0.6875	11/16	11-3/4	3	5	7-1/8	.3906	\$111.45
0.7500	3/4	12	3	5	7-3/8	.5000	\$151.55
0.8125	13/16	12	3	5	7-3/8	.5000	\$151.55
0.8750	7/8	12	3	5	7-3/8	.5625	\$166.10
0.9375	15/16	12	3	5	7-3/8	.6250	\$177.30
1.0000	1	12	3	5	7-3/8	.6875	\$192.80
1.0625	1-1/16	12	3	5	7-3/8	.7500	\$200.10
1.1250	1-1/8	12	3	5	7-3/8	.8125	\$244.20
1.1875	1-3/16	12	3	5	7-3/8	.8750	\$312.05
1.2500	1-1/4	13	4	5	7-3/8	.9375	\$355.10
1.3125	1-5/16	13	4	5	7-3/8	1.0000	\$419.70

Construction Reamers

HIGH SPEED STEEL

495 | Left Hand Spiral - Round Shank



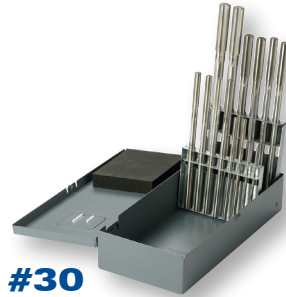
595 | Left Hand Spiral - Round Shank w/3 flats

DECIMAL	FRACTION	OVERALL LENGTH	# OF FLUTES	FLUTE LENGTH	SMALL DIAMETER	495 LIST PRICE	595 LIST PRICE
0.3750	3/8	5-1/4	5	3-5/8	.1645	\$57.95	\$66.45
0.4375	7/16	5-1/4	5	3-5/8	.1645	\$77.85	\$87.75
0.5000	1/2	6	5	4-3/8	.2340	\$89.55	\$100.80
0.5625	9/16	6-5/8	5	5	.2920	\$107.30	\$118.35
0.6250	5/8	6-5/8	5	5	.3520	\$125.90	\$136.95
0.6875	11/16	7	5	5-3/8	.4140	\$150.75	\$161.75
0.7500	3/4	7	5	5-3/8	.4770	\$173.15	\$184.30
0.8125	13/16	7-1/4	5	5-5/8	.5400	\$179.60	\$190.70
0.8750	7/8	7-1/4	5	5-5/8	.6020	\$179.60	\$190.70
0.9375	15/16	7-1/4	5	5-5/8	.6450	\$228.25	\$239.35
1.0000	1	7-1/4	5	5-5/8	.7270	\$228.25	\$239.35





#17W



#30

#44



High Speed Steel

SET #	# OF TOOLS	DESCRIPTION	SERIES	CASE TYPE	LIST PRICE
#17	25	Metric Sizes 1mm - 13mm by 1/2 mm	433	Metal	\$934.85
#17P	25	Metric Sizes 1mm - 13mm by 1/2 mm	433	Plastic Roll	\$886.75
#17W	13	Metric Sizes 1mm - 7mm by 1/2 mm	433	Wood	\$450.30
#40	29	Fractional Sizes 1/16" - 1/2" by 1/64"	433	Metal	\$1012.65
#40-32M	15	Fractional Sizes 1/16" - 1/2" by 1/32"	433	Metal	\$543.00
#40-32P	15	Fractional Sizes 1/16" - 1/2" by 1/32"	433	Plastic Roll	\$489.30
#40W	29	Fractional Sizes 1/16" - 1/2" by 1/64"	433	Wood	\$1137.20
#40S	29	Fractional Sizes 1/16" - 1/2" by 1/64" Right Hand Spiral	435	Metal	\$1130.55
#41	60	Wire Gauge Sizes #1-#60	433	Metal	\$1515.60
#70	20	Wire Gauge Sizes #61-#80	433	Metal	\$566.75
#41S	60	Wire Gauge Sizes #1-#60 Right Hand Spiral	435	Metal	\$1734.50
#42	26	Letter Sizes A - Z	433	Metal	\$1000.90
#42S	26	Letter Sizes A - Z Right Hand Spiral	435	Metal	\$1096.55
#43	14	Over/Under Sizes .1240-.5010	433	Metal	\$522.40
#43P	14	Over/Under Sizes .1240-.5010	433	Plastic Roll	\$484.35
#43W	14	Over/Under Sizes .1240-.5010	433	Wood	\$612.45
#44	21	Over/Under Sizes .1240-.5010 with Fractions by 1/16"	433	Plastic Roll	\$736.05
#43S	14	Over/Under Sizes .1240-.5010 Right Hand Spiral	435	Metal	\$594.95
#43SW	14	Over/Under Sizes .1240-.5010 Right Hand Spiral	435	Wood	\$682.75

M-42 8% Cobalt

SET #	# OF TOOLS	DESCRIPTION	SERIES	CASE TYPE	LIST PRICE
#40C	29	Fractional Sizes 1/16" - 1/2" by 1/64" Cobalt	1433	Metal	\$1324.45
#40CW	29	Fractional Sizes 1/8" - 1/2" by 1/64" Cobalt	1433	Wood	\$1456.25
#40CSW	29	Fractional Sizes 1/16" - 1/8" by 1/64" Cobalt Right Hand Spiral	1433	Wood	\$1569.45
#41C	60	Wire Gauge Sizes #1-#60 Cobalt	1433	Metal	\$1697.30
#42C	26	Letter Sizes A - Z Cobalt	1433	Metal	\$1307.90
#43C	14	Over/Under Sizes .1240-.5010 Cobalt	1433	Metal	\$674.55
#43CW	14	Over/Under Sizes .1240-.5010 Cobalt	1433	Wood	\$767.55
#43CSW	14	Over/Under Sizes .1240-.5010 Cobalt Right Hand Spiral	1435	Wood	\$823.65
#30C	14	Dowel Pin Sizes .1230-.4995 Cobalt	1470	Metal	\$674.60

Dowel Pins

SET #	# OF TOOLS	DESCRIPTION	SERIES	CASE TYPE	LIST PRICE
#30	14	Dowel Pin Sizes .1230-.4995	470	Metal	\$522.35
#30C	14	Dowel Pin Sizes .1230-.4995 Cobalt	1470	Metal	\$674.60
#30W	14	Dowel Pin Sizes .1230-.4995	470	Wood	\$612.45

Production Length

SET #	# OF TOOLS	DESCRIPTION	SERIES	CASE TYPE	LIST PRICE
#60	29	Fractional Sizes 1/16" - 1/2" by 1/64"	333	Metal	\$875.80
#60-64M	13	Fractional Sizes 1/16" - 1/4" by 1/64"	333	Metal	\$286.95
#60-32M	15	Fractional Sizes 1/16" - 1/2" by 1/32" Right Hand Spiral	335	Metal	\$474.70
#61	60	Wire Gauge Sizes #1-#60	333	Metal	\$1298.75
#62	26	Letter Sizes A - Z	333	Metal	\$830.70

#4876



#4917



#301



#4953



#5957



#302W



Taper Pins

SET #	# OF TOOLS	DESCRIPTION	SERIES	CASE TYPE	LIST PRICE
#4876	6	Taper Pin Set #0 - #5 Straight Flute	487	Plastic	\$324.60
#4877	7	Taper Pin Set 7/0 - #0 Straight Flute	487	Plastic	\$416.80
#4886	6	Taper Pin Set #0 - #5 Left Hand Helical	488	Plastic	\$400.45
#4887	7	Taper Pin Set 7/0 - #0 Left Hand Helical	488	Plastic	\$412.95
#4916	6	Taper Pin Set #0 - #5 Left Hand Spiral	491	Plastic	\$353.25
#4917	7	Taper Pin Set 7/0 - #0 Left Hand Spiral	491	Plastic	\$444.45

Construction Reamers

SET #	# OF TOOLS	DESCRIPTION	SERIES	CASE TYPE	LIST PRICE
#4953	3	Construction Reamers 3/8" - 1/2"	495	Wood Case	\$291.20
#4957	7	Construction Reamers 3/8" - 1"	495	Wood Case	\$1055.55
#5953	3	Construction Reamers with Flats 3/8" - 1/2"	595	Wood Case	\$329.05
#5957	7	Construction Reamers with Flats 3/8" - 1"	595	Wood Case	\$1127.35

Counterbores

SET #	# OF TOOLS	DESCRIPTION	SERIES	CASE TYPE	LIST PRICE
#301	10	Standard Counterbore Sizes #4 - 1/2"	301	Plastic Roll	\$532.10
#301W	10	Standard Counterbore Sizes #4 - 1/2"	301	Wood Case	\$671.15
#302	10	1/64" O/S Counterbore Sizes #4 - 1/2"	302	Plastic Roll	\$532.10
#302W	10	1/64" O/S Counterbore Sizes #4 - 1/2"	302	Wood Case	\$671.15
#303	10	1/32" O/S Counterbore Sizes #4 - 1/2"	303	Plastic Roll	\$532.10
#303W	10	1/32" O/S Counterbore Sizes #4 - 1/2"	303	Wood Case	\$671.15
#51W	8	Metric Counterbore Sizes 3mm - 14mm	302	Wood Case	\$657.50

*Individual Cases Available Upon Request



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Reamers

YANKEE	CLEVELAND	CHICAGO LATROBE	MORSE	REGAL-BELOIT	ALVORD POLK	L & I	21ST CENTURY
433	4001	405	1655	330 & 320	127-0	LV533	2270
435	4030	405-RS	1653	332 & 322	127-1	LV535	2271
435L	609	—	1652	331 & 321	127-2	LV535L	2272
1433	—	—	2655	330C & 320C	128-0	LV1533	—
1435	—	—	—	332C & 322C	—	LV1535	—
333	4050	—	—	370	—	DL533	—
335	4060	—	—	372	—	DL535	—
470	—	—	1655D	330	127-0	LV570DP	2270
475	—	—	—	332	127-1	LV575DP	2271
475L	—	—	—	331	127-2	LV575-L	2272
1470	—	—	—	330C	—	LV1570	—
1475	—	—	—	332C	—	LV1575	—
436	4005	400	1656	380	131-0	530U	—
437	4035	400-RS	1654	382	131-1	531U	—
406	628	—	1617	420	105-0	578U	—
431	504	—	1733	—	—	572U	—
432	516	—	1734	—	—	574U	—
400	624	420	1601	350	101-0	564U	2010
403	645	420-S	1602	351	101-2	565U	2012
500	—	—	—	—	—	—	—
451	644	218	1636	—	161-0	568U	—
457	644B	—	1635	—	163-0	569U	—
496	—	—	—	—	261-0	596U	—
487	657	245	1680	500	155-0	556U	2550
488	650	231	1683	501	155-H	558U	2554
491	659	245-S	1684	502	155-2	557U	2552
600	—	853	2116	—	207-2	567U	—
601	—	—	—	—	—	566U	—
604	—	—	—	—	—	—	—
606	—	—	—	—	—	—	—
485	—	—	—	511	653-0	532U	—
495	—	340	1650R	—	650-H	—	—
595	—	—	1650	—	—	583CR	—
301	—	—	1766	—	500-1	—	5000
302	—	—	1766	—	400-1	—	4000
303	—	—	1766	—	300-1	—	3000

Reamer Nomenclature

(According to ANSI Standards B94.2)

AXIS

The imaginary straight line which forms the longitudinal center line of a reamer, usually established by rotating the reamer between centers.

BACK TAPER

A slight decrease in taper, from front to back, in the flute length of the reamer.

CHIP BREAKERS

Notches or grooves in the cutting edges of some taper reamers designed to break the continuity of the chips.

CIRCULAR LAND

See Margin below.

CHAMFER

The angular cutting portion at the entering end of a reamer. *See Fig. 4 on page 42.*

CORE

The central portion of the reamer below the flutes which joins the lands.

FLUTES

Longitudinal channels formed in the body of the reamer to provide cutting edges, permit passage of chips, and allow cutting fluid to reach the cutting edges.

GUIDE/BACKPILOT

A cylindrical portion following the flutes of a reamer to maintain alignment.

HAND OF CUT (LEFT)

When viewed from the cutting end, the reamer must revolve clockwise to cut.

HAND OF CUT (RIGHT)

When viewed from the cutting end, the reamer must revolve counter clockwise to cut.

HELIX ANGLE

The angle which a helical cutting edge at a given point makes with the axial plane through the same point. *See Fig. 4 on page 42.*

LAND

The section of the reamer between adjacent flutes.

LEAD OF FLUTE

The axial advance of a helical or spiral cutting edge in one turn around the reamer axis.

MARGIN

The unrelieved part of the periphery of the land adjacent to the cutting edge. *See Fig. 1 on page 42.*

PILOT

A cylindrical portion preceding the entering end of the reamer body to maintain alignment.

RAKE

The angular relationship between the cutting face, or a tangent to the cutting face at a given point and a given reference plane or line. *See Fig. 1 on page 42.*

RELIEF

Result of the removal of tool material behind or adjacent to the cutting edge to provide clearance and prevent rubbing (heel drag).

TAPER PER FOOT

The different in diameter between two points 12 inches apart measured along the axis.

HAND OF FLUTE HELIX

A reamer has **Right Hand Helix** when the flutes twist away from the observer in a clockwise direction when viewed from either end of the reamer.

A reamer has **Left Hand Helix** when the flutes twist away from the observer in a counter clockwise direction when viewed from either end of the reamer.





YANKEE

C O R P O R A T I O N

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