

LEXINGTON

CUTTER, INC.

YOUR VALUE ADDED PARTNER

NOVEMBER 2023

**ISO 9001 REGISTERED
QUALITY CARBIDE & CARBIDE TIPPED
CUTTING TOOLS**



**PROUDLY
MADE IN THE UNITED STATES
&
DISTRIBUTED AROUND THE WORLD**

LEXINGTON CUTTER RETIPPING & RESHARPENING SERVICES

RETIPPING SERVICE

Lexington Cutter will retip and sharpen carbide tipped cutting tools manufactured by Lexington or equivalent tools made by other manufacturers. The tool types listed in the table below are eligible for retipping.

12 or More Pieces List Price Less 40%

6-11 Pieces List Price Less 35%

2 - 5 Pieces List Price Less 30%

RESHARPENING SERVICE

Lexington Cutter will sharpen carbide tipped cutting tools manufactured by Lexington or equivalent tools made by other manufacturers. The tool types listed below are eligible for sharpening.

Shank Tools List Price Less 60%

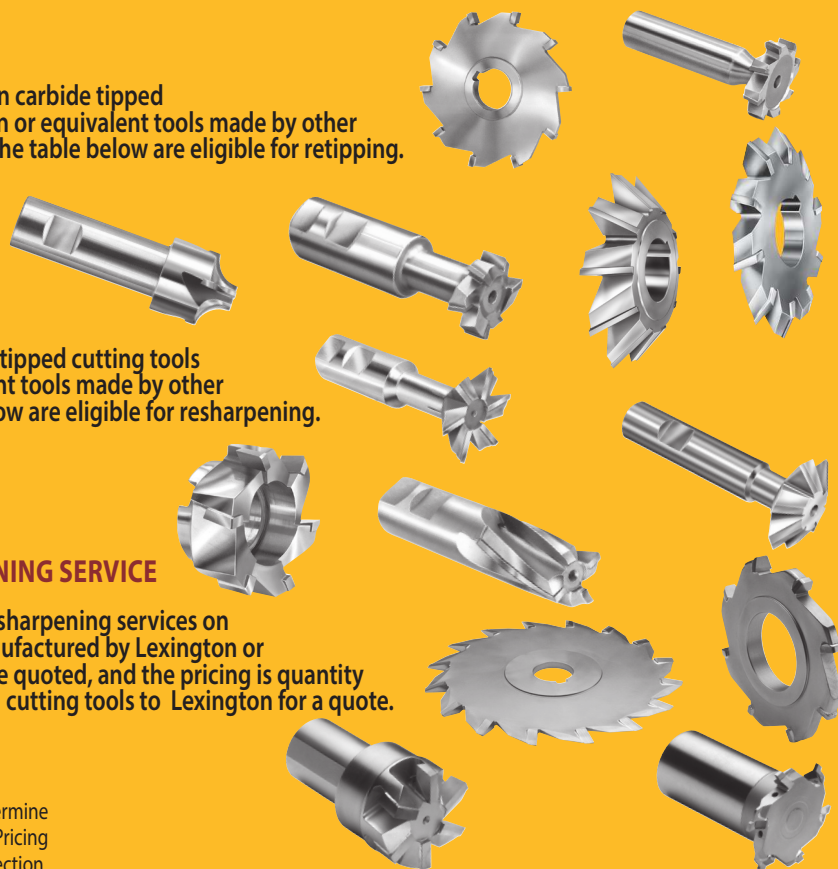
Arbor Hole Tools List Price Less 45%

5 Piece Minimum on Resharping

SPECIALS RETIPPING & RESHARPENING SERVICE

Lexington Cutter offers retipping and sharpening services on special carbide tipped cutting tools manufactured by Lexington or other manufacturers. Specials need to be quoted, and the pricing is quantity based. Send your special carbide tipped cutting tools to Lexington for a quote.

All tools need to be inspected by Lexington to determine if they are eligible to be retipped or resharpened. Pricing is based on the number of tools eligible after inspection.



TYPE	ELIGIBLE CARBIDE TIPPED TOOLS
3704	High Performance Keyseat Cutters for Aluminum
3700	Straight Tooth Keyseat Cutters for Non-Ferrous & Cast Iron
3701	Staggered Tooth Keyseat Cutters for Non-Ferrous & Cast Iron
3702	Straight Tooth Keyseat Cutters for Steel
3703	Staggered Tooth Keyseat Cutters for Steel
3730	45° Chamfer Milling Cutters for Non-Ferrous & Cast Iron
3731	45° Chamfer Milling Cutters for Steel
3732	60° Chamfer Milling Cutters for Non-Ferrous & Cast Iron
3733	60° Chamfer Milling Cutters for Steel
3746	60° Double Angle Cutters for Non-Ferrous & Cast Iron (Shank)
3747	60° Double Angle Cutters for Steel (Shank)
3748	90° Double Angle Cutters for Non-Ferrous & Cast Iron (Shank)
3749	90° Double Angle Cutters for Steel (Shank)
3718	Radius Cutters for Non-Ferrous & Cast Iron
3719	Radius Cutters for Steel
3720	T-Slot Cutters for Non-Ferrous & Cast Iron
3721	T-Slot Cutters for Steel
3734	45° Dovetail Cutters for Non-Ferrous & Cast Iron
3735	45° Dovetail Cutters for Steel
3736	60° Dovetail Cutters for Non-Ferrous & Cast Iron
3737	60° Dovetail Cutters for Steel
3550	Slitting Saws Coarse Tooth for Non-Ferrous
3552	Slitting Saws Coarse Tooth for Cast Iron
3554	Slitting Saws Coarse Tooth for Steel
3558	Slitting Saws Coarse Tooth for Stainless
3551	Slitting Saws Standard Tooth for Non-Ferrous
3553	Slitting Saws Standard Tooth for Cast Iron
3556	Slitting Saws Standard Tooth for Steel
3559	Slitting Saws Standard Tooth for Stainless
3540	Side Milling Cutter for Non-Ferrous
3541	Side Milling Cutter for Cast Iron
3542	Side Milling Cutter for Steel
3543	Side Milling Cutter for Stainless
3547	Side Milling Cutter Staggered Tooth General Purpose

TYPE	ELIGIBLE CARBIDE TIPPED TOOLS
3714	45° Right Single Angle Cutter (Arbor Hole Type)
3716	45° Left Single Angle Cutter (Arbor Hole Type)
3724	60° Right Single Angle Cutter (Arbor Hole Type)
3726	60° Left Single Angle Cutter (Arbor Hole Type)
3750	45° Double Angle Cutter (Arbor Hole Type)
3752	60° Double Angle Cutter (Arbor Hole Type)
3754	90° Double Angle Cutter (Arbor Hole Type)
3530	Shell Mill for Non-Ferrous
3531	Shell Mill for Cast Iron
3532	Shell Mill for Steel
3536	Face Mill for Non-Ferrous
3537	Face Mill for Cast Iron
3538	Face Mill for Steel
3740	Corner Rounding End Mill for Non-Ferrous
3741	Corner Rounding End Mill for Steel
3323	Bridgeport/Reduced Shank End Mill for Non-Ferrous & Cast Iron
3353	Bridgeport/Reduced Shank End Mill for Steel
3322	CNC Finishing End Mills 15° Right Spiral Flutes for NF & Cast Iron
3355	CNC Finishing End Mills 15° Right Spiral Flutes for Steel
3337	CNC HP End Mills 25° Right Spiral Flutes for Aluminum & NF
3300	End Mills for Steel 2 Straight Flutes
3308	End Mills for Steel 6° Right Spiral Flutes
3310	End Mills for Steel 6° Left Spiral Flutes
3350	End Mills for Steel 15° Right Spiral Flutes
3302	End Mills for NF & Cast Iron 2 Straight Flutes Radial Edged
3304	End Mills for NF & Cast Iron 4/6 Straight Flutes Radial Edged
3305	End Mills for NF & Cast Iron 4 Straight Flutes Upsharp
3306	End Mills for NF & Cast Iron 6° Right Spiral Flutes Radial Edged
3307	End Mills for NF & Cast Iron 6° Right Spiral Flutes Upsharp
3320	End Mills for NF & Cast Iron 15° Right Spiral Flutes Radial Edged
3375	End Mills for NF & Cast Iron 15° Right Spiral Flutes Radial Edged
3325	End Mills for NF & Cast Iron 25° Right Spiral Flutes Radial Edged
3327	End Mills for NF & Cast Iron 25° Right Spiral Flutes Upsharp
-	-

SELECTING THE CORRECT LEXINGTON TOOL

LEXINGTON CUTTER'S carbide tipped tools are designed with the appropriate carbide grade and tool geometry for each material classification.

Follow the steps below to select the best tool types for maximum performance.

1. Determine classification of material being machined using table below.
2. Determine family of tool needed (i.e., drills, reamers, end mills, etc.).
3. Using the color coded index on the following pages, find the family of tool needed and the correct material classification column.
4. The index shows the tool types and page numbers for the recommended tools.
5. Turn to the page to find: sizes, tolerances, EDP numbers and prices.

CLASSIFICATION	MATERIAL	EXAMPLES
NON-FERROUS (SOFT)	ALUMINUM ALLOY - CAST ALUMINUM ALLOY - WROUGHT MAGNESIUM ALLOY LEAD ALLOY NON-METAL AND PLASTIC ZINC ALLOY - DIE CAST	308.0, 356.0, 360.0, 380.0, 390.0, 514.0 3003, 4032, 5052, 6061, 7075 AM60A, AZ21A, AZ91B-C, K1A Alloys 7, 8, 13, 15, 1Sb, 4Sb, 6Sb, 8Sb, 9Sb Bakelite, Nylon, Polystyrene, PVC AC41A, AG40A, AMS4803, ZDC NO. 7
NON-FERROUS (HARD)	ALUMINUM BRONZE BRASS ALLOY - LEADED AND FREE CUTTING BRASS ALLOY - YELLOW, RED, NAVAL COMMERCIAL BRONZE (LEADED) NICKEL SILVER COPPER ALLOY - TOUGH	614, 952-958 340, 342, 353, 360, 370, 485 268, 270, 464-467 314 745-770, 973-978 110, 170, 172, 175, 280, 425, 610, 655
CAST IRON	DUCTILE CAST IRON - AUSTENITIC FERRITIC FERRITIC - PEARLITIC PEARLITIC - MARTENSITIC MARTENSITIC GRAY CAST IRON MALLEABLE CAST IRON - FERRITIC OR PEARLITIC	D-2, D-2B, D-2C, D-2M, D-3, D-3A, D-4, D-5 60-40-18, 65-45-12, D4018, D4512 80-55-06, D5506 100-70-03, D7003 120-90-02, DQ&T 20, 25, 30, 35, 40, 45, 50, 55 32510, 35018, 45008, M3210, M4504
LOW CARBON STEELS	LOW AND MEDIUM CARBON STEEL - WROUGHT LOW AND MEDIUM CARBON STEEL - FREE MACHINING LOW CARBON STEEL - CAST LEADED LOW CARBON LEADED MEDIUM CARBON MEDIUM CARBON STEEL - CAST	1005-1029, 1030-1050 1108-1119, 1132-1151, 1211-1215 1010, 1020 10L18, 11L17, 12L13-12L15 10L45, 10L50, 11L37, 11L44 1030, 1040, 1050
MEDIUM STRENGTH STEELS	LOW AND MEDIUM CARBON ALLOY STEEL LOW AND MEDIUM CARBON ALLOY STEEL - FREE MACH. MEDIUM AND HIGH CARBON ALLOY STEEL - LEADED STAINLESS STEEL - 300 SERIES (FREE MACH.)* STAINLESS STEEL - 400 SERIES STAINLESS STEEL - 400 SERIES (FREE MACH.)	4320, 4340, 4620, 5015, 8620, 9310 4140, 4142Se, 4145Te, 4150, 86L20 41L30, 41L40, 41L50 303, 303MA, 303Pb, 303 PLUS X, 303Se 409, 410, 420, 430, 436 416, 416Se, 420F, 430F, 440F
HIGH STRENGTH STEELS	ARMOR PLATE HIGH CARBON ALLOY STEEL HIGH STRENGTH STEEL - WROUGHT MARAGING STEEL NITRIDING STEEL TOOL STEEL	HY-80, HY-100, HY-180, MIL-S-12560 50100, 51100, 52100 300M, 4330V, 98BV40, HP 9-4-20 Grades 200, 250, 300, 350, HY 230 Nitalloy 125, 135, 135 Modified, 230 Series A2, D2, H13, M50, P20, S7, W1
HIGH TEMPERATURE ALLOYS	IRON BASE ALLOY NICKEL BASE ALLOY STAINLESS STEEL - 300 SERIES STAINLESS STEEL - PH SERIES TITANIUM ALLOY	A-286, Discaloy, Incoloy 800-802 Hastelloy C, Inconel 600, 625, 718, 825 302, 304, 309, 314, 316, 300, 347, 385 15-5PH, 16-6PH, 17-4PH, AM-350 Ti-6Al-4V, Ti-10V-2Fe-3Al, 98.9, 99.5

Lexington's tool selection is based on materials most common to condition. Special heat treatments or processing may change the material's machining characteristics. This guide is a suggested starting point for tool selection.

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*When milling free machining 300 series stainless steel, use cast iron classification.

Made in U.S.A.

LEXINGTON CUTTER TOOL INDEX

	Tool Type	Fractional Page	Metric Page	Non-Ferrous Soft	Non-Ferrous Hard	Cast Iron	Low Carbon Steel	Medium Strength Steel	High Strength Steel	High Temp. Alloy	Cleveland	Fullerton	Gaylee	Morse	NYTD	Niagara	RTW (Green/Red)	Union
MILLING CUTTERS - ARBOR TYPE				TOOL SELECTOR							CROSS REFERENCE							
Double Angle Cutter - 45° Included	3750	27									-	-	-	-	-	-	-	-
Double Angle Cutter - 60° Included	3752	27									-	-	-	-	-	-	-	-
Double Angle Cutter - 90° Included	3754	27									-	-	-	-	-	-	-	-
Shell Mill Cutter - Cast Iron	3531	27									772	-	-	5859	-	4900	-	5690
Shell Mill Cutter - Non-Ferrous	3530	27									773	-	-	5858	-	4920	-	5694
Shell Mill Cutter - Steel	3532	27									771	-	-	5860	-	4910	-	5692
Side Milling Cutter - Cast Iron	3541	26									-	-	-	5862	-	1590	-	5400
Side Milling Cutter - Non-Ferrous	3540	26									-	-	-	5861	-	1630	-	5404
Side Milling Cutter - Stainless Steel	3543	26									-	-	-	5849	-	-	-	-
Side Milling Cutter - Steel	3542	26									-	-	-	5863	-	1550	-	5401
Side Milling Cutter - Staggered Tooth - General Purpose	3547	15									-	-	-	-	-	-	-	-
Single Angle Cutter - 45° Left	3716	27									-	-	-	-	-	-	-	-
Single Angle Cutter - 45° Right	3714	27									-	-	-	-	-	-	-	-
Single Angle Cutter - 60° Left	3726	27									-	-	-	-	-	-	-	-
Single Angle Cutter - 60° Right	3724	27									-	-	-	-	-	-	-	-
Slitting Saw - Coarse Tooth - Cast Iron	3552	16									-	-	CCI	5847	-	4240	-	5406
Slitting Saw - Coarse Tooth - Non-Ferrous	3550	16									-	-	CNF	5846	-	4690	-	5407
Slitting Saw - Coarse Tooth - Stainless Steel	3558	16									-	-	GSS	5850	-	4260	-	-
Slitting Saw - Coarse Tooth - Steel	3554	16									-	-	CST	5848	-	4220	-	5405
Slitting Saw - Standard Tooth - Cast Iron	3553	17									1361	-	GPP	-	-	-	-	-
Slitting Saw - Standard Tooth - Non-Ferrous	3551	17									1361	-	GPP	-	-	-	-	-
Slitting Saw - Standard Tooth - Stainless Steel	3559	17-21									-	-	GSS	-	-	-	-	-
Slitting Saw - Standard Tooth - Steel	3556	17, 22-25									1360	-	STL	-	-	-	-	-
MILLING CUTTERS - SHANK TYPE				TOOL SELECTOR							CROSS REFERENCE							
Chamfer Cutter - 45° Single Angle - Non-Ferrous & Cast Iron	3730	12									-	-	-	-	-	-	-	-
Chamfer Cutter - 45° Single Angle - Steel	3731	12									-	-	-	-	-	-	-	-
Chamfer Cutter - 60° Single Angle - Non-Ferrous & Cast Iron	3732	12									-	-	-	-	-	-	-	-
Chamfer Cutter - 60° Single Angle - Steel	3733	12									-	-	-	-	-	-	-	-
Chamfer Cutter - 60° Double Angle - Non-Ferrous & Cast Iron	3746	12									-	-	-	-	-	-	-	-
Chamfer Cutter - 60° Double Angle - Steel	3747	12									-	-	-	-	-	-	-	-
Chamfer Cutter - 90° Double Angle - Non-Ferrous & Cast Iron	3748	12									-	-	-	-	-	-	-	-
Chamfer Cutter - 90° Double Angle - Steel	3749	12									-	-	-	-	-	-	-	-
Dovetail Cutter - 45° Single Angle - Non-Ferrous & Cast Iron	3734	13									-	-	-	-	-	-	-	-
Dovetail Cutter - 45° Single Angle - Steel	3735	13									-	-	-	-	-	-	-	-
Dovetail Cutter - 60° Single Angle - Non-Ferrous & Cast Iron	3736	13									-	-	-	-	-	-	-	-
Dovetail Cutter - 60° Single Angle - Steel	3737	13									-	-	-	-	-	-	-	-
Face Mill - Cast Iron	3537	28									-	-	-	1450/1460	-	-	-	-
Face Mill - Non-Ferrous	3536	28									-	-	-	1450/1460	-	-	-	-
Face Mill - Steel	3538	28									-	-	-	1450/1460	-	-	-	-
Keyseat Cutter - High Performance - Aluminum	3704	7									-	-	-	-	-	-	-	-
Keyseat Cutter - Staggered Tooth - Non-Ferrous & Cast Iron	3701	9									-	-	-	-	-	-	-	-
Keyseat Cutter - Staggered Tooth - Steel	3703	11									-	-	-	-	-	-	-	-
Keyseat Cutter - Straight Tooth - Non-Ferrous & Cast Iron	3700	8									-	-	-	-	CB444	-	-	-
Keyseat Cutter - Straight Tooth - Steel	3702	10									-	-	-	-	-	-	-	-
Radius Cutter - Non-Ferrous & Cast Iron	3718	12									-	-	-	-	-	-	-	-
Radius Cutter - Steel	3719	12									-	-	-	-	-	-	-	-
T-Slot Cutter - Non-Ferrous & Cast Iron	3720	13									-	-	-	-	-	-	-	-
T-Slot Cutter - Steel	3721	13									-	-	-	-	-	-	-	-
END MILLS				TOOL SELECTOR							CROSS REFERENCE							
6° Left Spiral Flutes - Steel	3310	31									767	60LSS	-	5964	4738	-	LSEM	-
6° Right Spiral Flutes - Non-Ferrous & Cast Iron	3306	32									766	60RS-	-	5921	-	4700	RSEM	5682
6° Right Spiral Flutes - Non-Ferrous Soft - Upsharp	3307	32									-	-	-	-	-	-	-	-
6° Right Spiral Flutes - Steel	3308	31									-	60RSS	-	-	4736	-	-	-
15° Right Spiral Flutes - Cast Iron	3320	33									-	-	-	-	-	-	-	-
15° Right Spiral Flutes - Non-Ferrous & Cast Iron	3375	33									-	-	-	5692	4737	4840	HLS	5002
15° Right Spiral Flutes - Steel	3350	31									-	60GSS	-	5960	4733	4820	HES	5001
25° Right Spiral Flutes - Non-Ferrous	3325	33									-	60FS	-	5958	4731	4860	HNS	5003
25° Right Spiral Flutes - Non-Ferrous Soft - Upsharp	3327	33									-	-	-	-	-	-	-	-
Bridgeport - Reduced 3/4" Shank - Non-Ferrous & Cast Iron	3323	30									-	-	-	-	-	-	-	-
Bridgeport - Reduced 3/4" Shank - Steel	3353	30									-	-	-	-	-	-	-	-
Center Cutting - 25° Right Spiral Flutes - Non-Ferrous & Cast Iron	3318	29									-	60CS	-	5966	-	-	-	-
Center Cutting - Straight Flutes (3) - Non-Ferrous & Cast Iron	3314	29									-	60SK	-	5935	-	4800	SKM	5689
Center Cutting - Straight Flutes (3) - Steel	3312	29									-	60SKS	-	5936	-	4780	-	5688
CNC 15° Right Spiral Finishing - Non-Ferrous & Cast Iron	3322	30									-	-	-	-	-	-	-	-
CNC 15° Right Spiral Finishing - Steel	3355	30									-	-	-	-	-	-	-	-
CNC 25° Right Spiral High Performance - Non-Ferrous Soft	3337	30									-	-	-	-	-	-	-	-
Corner Rounding - Non-Ferrous & Cast Iron	3740	29									-	-	-	-	-	-	-	-
Corner Rounding - Steel	3741	29									-	-	-	-	-	-	-	-
Straight Flutes (2) - Non-Ferrous & Cast Iron	3302	32									765	60TF	-	5923	4732	4700	TFEM	5680
Straight Flutes (2) - Steel	3300	31									-	60TFS	-	5927	-	-	-	-
Straight Flutes (4/6) - Non-Ferrous & Cast Iron	3304	32									765	60EM	-	5925	4734	4750	EM	5680
Straight Flutes (4) - Non-Ferrous Soft - Upsharp	3305	32									-	-	-	-	-	-	-	-
PORT CONTOUR CUTTERS				TOOL SELECTOR							CROSS REFERENCE							
Straight Shank	All	34	34								-	-	-	-	-	-	-	-
COUNTERBORES				TOOL SELECTOR							CROSS REFERENCE							
3-4 Spiral Flutes - Straight Shank - Non-Ferrous & Cast Iron	3514	38	39								-	779	-	-	-	5779	SSC	5470
3-4 Spiral Flutes - Straight Shank - Steel	3510	42	43								-	-	-	-	-	-	FAC	-
3-4 Spiral Flutes - Taper Shank - Non-Ferrous & Cast Iron	3516	40	41								-	778	-	-	-	5780	TSC	5471
3-4 Spiral Flutes - Taper Shank - Steel	3511	42	43								-	-	-	-	-	-	TAC	-

LEXINGTON CUTTER, INC. • sales@lexingtoncutter.com • Phone 800-882-2627 • Fax 800-882-3637

LEXINGTON CUTTER TOOL INDEX

	Tool Type	Fractional Page	Metric Page	Non-Ferrous Soft	Non-Ferrous Hard	Cast Iron	Low Carbon Steel	Mild Strength Steels	High Strength Steels	High Temp. Alloys	CT	Cleveland	Fullerton	IMCO	Metcut	Moore	RTW (Greenfield)	Union
COUNTERBORES				TOOL SELECTOR							CROSS REFERENCE							
4 Spiral Flutes - Straight Shank - Non-Ferrous & Cast Iron	3512	38	39								-	-	-	-	-	-	-	-
4 Spiral Flutes - Taper Shank - Non-Ferrous & Cast Iron	3518	40	41								-	-	-	-	-	-	-	-
Aircraft - Reduced Shank - 3 Flutes	3522	44									-	-	-	-	-	-	-	-
Capscrew	3513,15	37	37								-	-	-	-	-	-	-	-
Pilots - Interchangeable	3500	36									-	Yes	-	-	410	776	Yes	4704
Pin Drive - Non-Ferrous & Cast Iron	3573	46									-	-	-	-	200	-	-	-
Pin Drive - Steel	3574	46									-	-	-	-	-	-	-	-
Radial Drive - Non-Ferrous & Cast Iron	3577	45									-	-	-	-	-	-	-	-
Radial Drive - Steel	3578	45									-	-	-	-	-	-	-	-
Stub Taper Shank - Non-Ferrous & Cast Iron	3575	47									-	-	-	-	210	-	-	-
Stub Taper Shank - Steel	3576	47									-	-	-	-	-	-	-	-
REAMERS				TOOL SELECTOR							CROSS REFERENCE							
CNC Stub / Screw Machine - Straight or Left Spiral Flutes	3430,40	90	91								-	4701	50SML	8250	-	5669	SML	-
Coolant - Left Spiral Flutes - Through Hole - Cast Iron	3428	114									-	-	-	-	-	-	-	-
Coolant - Left Spiral Flutes - Through Hole - Non-Ferrous	3427	114									-	-	-	-	-	-	-	-
Coolant - Left Spiral Flutes - Through Hole - Steel	3429	114									-	-	-	-	-	-	-	-
Coolant - Left Spiral Flutes - Through Hole - h6 Shank - Cast Iron	3428h6	107	107								-	-	-	-	-	-	-	-
Coolant - Left Spiral Flutes - Through Hole - h6 Shank - Non-Ferrous	3427h6	107	107								-	-	-	-	-	-	-	-
Coolant - Left Spiral Flutes - Through Hole - h6 Shank - Steel	3429h6	107	107								-	-	-	-	-	-	-	-
Coolant - Right Spiral Flutes - Blind Hole - Cast Iron	3413	113									453	-	-	-	-	-	-	-
Coolant - Right Spiral Flutes - Blind Hole - Non-Ferrous	3411	113									453	-	-	-	-	-	-	-
Coolant - Right Spiral Flutes - Blind Hole - Steel	3415	113									453	-	-	-	-	-	-	-
Coolant - Right Spiral Flutes - Blind Hole - h6 Shank - Cast Iron	3413h6	106	106								-	-	-	-	-	-	-	-
Coolant - Right Spiral Flutes - Blind Hole - h6 Shank - Non-Ferrous	3411h6	106	106								-	-	-	-	-	-	-	-
Coolant - Right Spiral Flutes - Blind Hole - h6 Shank - Steel	3415h6	106	106								-	-	-	-	-	-	-	-
Coolant - Right Spiral Flutes - Cross Pin Hole Shank	3490	115									-	-	-	-	-	-	-	-
Coolant - Right Spiral Flutes - Through Hole - Cast Iron	3418	112									453A	-	-	-	-	-	-	-
Coolant - Right Spiral Flutes - Through Hole - Non-Ferrous	3417	112									453A	-	-	-	-	-	-	-
Coolant - Right Spiral Flutes - Through Hole - Steel	3419	112									453A	-	-	-	-	-	-	-
Coolant - Straight Flutes - Blind Hole - Cast Iron	3424	110	111								452	-	-	-	-	-	-	-
Coolant - Straight Flutes - Blind Hole - Non-Ferrous	3414	110	111								452	-	-	-	-	-	-	-
Coolant - Straight Flutes - Blind Hole - Steel	3434	110	111								452	-	-	-	-	-	-	-
Coolant - Straight Flutes - Blind Hole - h6 Shank - Cast Iron	3424h6	104	104								-	-	-	-	-	-	-	-
Coolant - Straight Flutes - Blind Hole - h6 Shank - Non-Ferrous	3414h6	104	104								-	-	-	-	-	-	-	-
Coolant - Straight Flutes - Blind Hole - h6 Shank - Steel	3434h6	104	104								-	-	-	-	-	-	-	-
Coolant - Straight Flutes - Through Hole - Cast Iron	3426	108	109								452A	-	-	-	-	-	-	-
Coolant - Straight Flutes - Through Hole - Non-Ferrous	3416	108	109								452A	-	-	-	-	-	-	-
Coolant - Straight Flutes - Through Hole - Steel	3435	108	109								452A	-	-	-	-	-	-	-
Coolant - Straight Flutes - Through Hole - h6 Shank - Cast Iron	3426h6	105	105															
Coolant - Straight Flutes - Through Hole - h6 Shank - Non-Ferrous	3416h6	105	105															
Coolant - Straight Flutes - Through Hole - h6 Shank - Steel	3435h6	105	105															
Dowel Pin Size - Regular & Jobbers Drill Length	3476,77	61									450	-	-	8003	-	-	-	-
Dowel Pin Size - Straight Flute Long Carbide - Straight Shank - Steel	3486	79									-	-	-	-	-	-	-	-
Expansion - Straight Flute Long Carbide - Straight Shank	3465	86	87								490	-	50ES	8500	-	5733	ESR	5531
Expansion - Straight Flute Long Carbide - Taper Shank	3467	88	89								495	-	50ET	8510	-	5734	ETR	5532
NAS 897 - Expansion - Straight Shank - Cast Iron	3466	102									-	704	-	-	-	-	-	-
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LEXINGTON CUTTER TOOL INDEX

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CARBIDE TIPPED TOOL PROBLEM SOLVING GUIDE

DRILLING PROBLEMS	POSSIBLE CAUSES	POSSIBLE SOLUTIONS
1. Rough finish	Dull cutting edge Wrong feeds & speeds	Resharpener to original tool geometry. Increase speed — also try reduced feed.
2. Excessive cutting edge wear	Wrong feeds & speeds Rough cutting edge Insufficient coolant	Increase feed (should always be over .001" per tooth) — especially when machining ductile or free machining materials. Also try reduced speed. Lightly hone cutting edge with fine grit diamond hone. Increase coolant flow — review type of coolant.
3. Chipped cutting edge	Poor chip removal Recutting work hardened chips Vibration Incorrect carbide grade	Use tool with larger flute space — larger diameter or fewer flutes. Increase coolant flow. Increase rigidity of set-up, especially worn tool holders or arbors. Change to tougher carbide grade.
4. Chatter marks	Insufficient machine horsepower Vibration	Use tool with fewer flutes as correct speeds & feeds must be maintained. Consider climb milling. User larger diameter cutter. Resharpener tool with more clearance.
5. Glazed finish	Feed to light Dull cutting edge Insufficient clearance	Increase feed. Resharpener tool to original geometry. Resharpener tool with more clearance.
6. Poor tool life	Excessive cratering Milling abrasive material Milling hard material Insufficient chip room Milling surface scale Delayed resharpening Thermal cracked carbide	Increase speed or decrease feed. Change to harder grade of carbide. Decrease speed and increase feed. Increase coolant flow. Climb milling better than conventional milling. Reduce speed — rigidity very important. Use larger diameter tool. Conventional milling better than climb milling. Prompt resharpening to original geometry will increase total tool life. Maintain adequate coolant flow at all times. Climb milling is cooler than conventional milling.

MILLING PROBLEMS	POSSIBLE CAUSES	POSSIBLE SOLUTIONS
1. Chipped cutting edge	Excessive feed Excessive lip relief Variation Thermal cracked carbide	Reduce feed. Reduce lip relief to provide smaller chisel angle. Frequently a worn drill bushing — REPLACE. Maintain adequate coolant flow at all times.
2. Short tool life	Drill dwelling Only one lip cutting	Maintain adequate feed at all times. Regind with equal lip heights and chisel in center.
3. Drill walks or drifts	Unequal lip heights Worn drilling bushing	Regind with equal lip heights and chisel in center. Replace drill bushing.
4. Oversized holes	Unequal lip heights Excessive lip relief Worn drill bushing	Regind with equal lip heights and chisel in center. Reduce lip relief to provide smaller chisel angle. Replace drill bushing.
5. Rough finish	Dull cutting Inadequate coolant	Regind with fine grit diamond wheel. Review type of coolant and maintain adequate flow.

REAMING PROBLEMS	POSSIBLE CAUSES	POSSIBLE SOLUTIONS
1. Poor finish	Unequal chamfers Incorrect margins Excessive spindle runout Chatter Insufficient cutting action	Regind reamer with equal chamfer height. Regind reamer with correct margin for material being machined. Increase reamer back taper (to lose size faster). Increase speed and reduce feed rate. Use power feed unless material is hard. Use right or left spiral fluted reamer. Grind secondary lead angle immediately behind 45° chamfer. Specify reamer with positive radial rake to reduce cutting pressure — may produce slightly larger diameter holes.
2. Oversized holes or tapered holes or bell mouthed holes	Misalignment Incorrect feed and/or speed	Use bushing — .0002"/.0003" over reamer diameter. If hole location varies, use floating reamer holder. Increase reamer back taper (to lose size faster). Verify correct feeds & speeds.
3. Excessive tool wear	Insufficient stock removal Excessive reaming pressure Misalignment	Decrease previous operation drill size to allow more material for removal by reamer — leave 2% - 3% of tool diameter for cast iron and more stock for non-ferrous materials. Decrease feed rate. Reduce stock to be removed by increasing previous operation drill size — leave 2% - 3% of the tool diameter. See solution for "Misalignment" in #2 above.
4. Crooked holes	Drill walking or incorrect sharpening	Correct previous drilling operation — reamer will follow the drilled hole. Increase reamer attack angle (chamfer) to 120° - 180° included angle.
5. Tool breakage	Excessive reaming pressure Misalignment	See solution for "Excessive reaming pressure" in #3 above. See solution for "Misalignment" in #2 above.

FEEDS & SPEEDS CHART FOR KEYSEATS - CARBIDE TIPPED

Feeds & speeds are a starting recommendation for catalog standards only. Factors such as machine, fixture and tooling rigidity, horse-power available, coolant application and others will affect the performance significantly. Please read machine operators instructions and use all safety shields and glasses before performing these operations. (Series 3700, 3701, 3702, & 3703 Keyseat Cutters)

IPM is based on catalog standards only using the mid SFPM and a 0.002 IPT chip load as a starting point. For all other conditions use the following formulas to calculate RPM and IPM from the ranges listed in the material group and brinell hardness section as a starting point.

$$\text{RPM} = \text{SFPM} \times 3.82 / \text{Cutter Diameter}$$

$$\text{IPM} = \text{IPT} \times \text{RPM} \times \# \text{Teeth}$$



CLASSIFICATION	MATERIAL	BRINELL	SPEED IN SFPM	FEED RATE IPT	KEYSEAT CUTTER DIAMETER									
					½	⅝	¾	7/8	1	1 ⅛	1 ¼	1 ⅜	1 ½	
					IPM	IPM	IPM	IPM	IPM	IPM	IPM	IPM	IPM	
NON-FERROUS (SOFT)	ALUMINUM ALLOY - WROUGHT	30-150**	1200+	.002-.010	110	88	73	63	73	65	59	53	49	
	MAGNESIUM ALLOY	50-90**	1000+	.002-.010	92	73	61	52	61	54	49	44	41	
	LEAD ALLOY	10-20**	-	-	-	-	-	-	-	-	-	-	-	
	NON-METAL AND PLASTIC	-	1500+	.002-.006	138	110	92	79	92	81	73	67	61	
	ZINC ALLOY - DIE CAST	80-100	750-1000	.002-.006	80	64	53	46	53	48	43	39	36	
NON-FERROUS (HARD)	ALUMINUM BRONZE	40-175	200-600	.002-.006	37	29	24	21	24	22	20	18	16	
	BRASS ALLOY - LEADED AND FREE CUTTING	10-100Rb	400-550	.002-.006	44	35	29	25	29	26	23	21	19	
	NICKEL SILVER	10-100Rb	200-400	.002-.006	28	22	18	16	18	16	15	13	12	
	COPPER ALLOY - TOUGH	40-200**	200-500	.002-.006	32	26	21	18	21	19	17	16	14	
CAST IRON	DUCTILE CAST IRON - AUSTENITIC	120-275	75-150	.002-.004	10	8	7	6	7	6	6	5	5	
	DUCTILE CAST IRON - FERRITIC	140-270	200-400	.002-.007	28	22	18	16	18	16	15	13	12	
	DUCTILE CAST IRON - MARTENSITIC	270-440	150-350	.002-.007	23	18	15	13	15	14	12	11	10	
	GRAY - PEARLITIC	220-320	150-300	.002-.007	21	17	14	12	14	12	11	10	9	
	GRAY - FERRITIC	110-240	220-410	.002-.006	29	23	19	17	19	17	15	14	13	
	MALLEABLE CAST IRON - MARTENSITIC	200-320	130-300	.002-.004	20	16	13	11	13	12	11	10	9	
LOW CARBON STEELS	LOW AND MEDIUM CARBON STEEL - FREE MACHINING	100-250	200-500	.001-.005	32	26	21	18	21	19	17	16	14	
	LOW AND MEDIUM CARBON STEEL - WROUGHT	100-375	200-400	.001-.005	28	22	18	16	18	16	15	13	12	
MEDIUM STRENGTH STEELS	LOW AND MEDIUM CARBON ALLOY STEEL - FREE MACHINING	100-275	200-400	.001-.005	28	22	18	16	18	16	15	13	12	
	LOW AND MEDIUM CARBON ALLOY STEEL	85-375	130-330	.001-.005	21	17	14	12	14	12	11	10	9	
	STAINLESS STEEL - 400 SERIES	135-325	135-375	.002-.005	24	19	16	14	16	14	13	12	11	
	STAINLESS STEEL - 400 SERIES FREE MACHINING	135-275	250-500	.002-.005	34	28	23	20	23	20	18	17	15	
HIGH STRENGTH STEELS	HIGH STRENGTH STEEL - WROUGHT & TOOL STEEL	175-400	75-200	.001-.004	13	28	23	20	23	20	18	17	15	
HIGH TEMP. ALLOYS	HIGH TEMP ALLOYS NICKEL & IRON BASE ALLOY	140-300	50-150	.001-.004	9	7	6	5	6	5	5	4	4	
	STAINLESS STEEL - 300 SERIES	135-375	75-175	.001-.004	11	9	8	7	8	7	6	6	5	
	STAINLESS STEEL - PH SERIES	150-440	75-175	.001-.004	11	9	8	7	8	7	6	6	5	
	TITANIUM ALLOY	110-380	75-200	.002-.006	13	10	8	7	8	7	7	6	6	

CARBIDE TIPPED HIGH PERFORMANCE KEYSEAT CUTTERS FOR ALUMINUM



TYPE 3704 - HIGH PERFORMANCE - FOR ALUMINUM

Carbide tips brazed to hardened alloy steel bodies.

Designed specifically for the aluminum industry. Tools have a high volume flute capacity for higher speeds and feeds and better finishes. The tool geometry includes clearance for cutting on all three surfaces. Used for milling, slotting, grooving, snap rings, and O-rings. Also used in circular interpolation of spot facing, back spot facing, and counterboring. Starting point for aluminum slotting: 1K - 4K SFPM, .002 - .008 IPT. Reduce SFPM and IPT by 25% for widths under .0938.

Up to 1½" diameter: ½" shank.
1¾" diameter thru 2½": ¾" shank.
Face width tolerance: +.0005"/-.0005".
Tool diameter tolerance: +.020"/+.015".

AMERICAN STANDARD NO.	TOOL DIAM.	WIDTH	NO. OF TEETH	NECK DIAM.	OAL	EDP NO.	PRICE EACH	DECIMAL SIZE RANGE
-	⅝	⅛	2	.160	2 ⅛	37042002	\$193.60	.0575 - .0787
305	⅝	⅜	2	.191	2 ⅜	37040305	193.60	.0788 - .1099
405	⅝	⅝	2	.223	2 ⅝	37040405	193.60	.1100 - .1400
505	⅝	⅝	2	.252	2 ⅝	37040505	193.60	.1401 - .1713
605	⅝	⅝	2	.279	2 ⅝	37040605	193.60	.1714 - .2025
-	⅝	⅝	2	.342	2 ⅝	37042007	193.60	.2026 - .2339
-	⅝	⅝	2	.342	2 ⅝	37042008	193.60	.2340 - .2650
-	⅝	⅝	2	.160	2 ⅝	37042402	203.30	.0575 - .0787
-	⅝	⅝	2	.191	2 ⅝	37042403	203.30	.0788 - .1099
406	⅝	⅝	2	.217	2 ⅝	37040406	203.30	.1100 - .1400
506	⅝	⅝	2	.246	2 ⅝	37040506	203.30	.1401 - .1713
606	⅝	⅝	2	.279	2 ⅝	37040606	203.30	.1714 - .2025
-	⅝	⅝	2	.342	2 ⅝	37042407	203.30	.2026 - .2339
806	⅝	⅝	2	.342	2 ⅝	37040806	203.30	.2340 - .2650
-	⅝	⅝	2	.160	2 ⅝	37042802	217.90	.0575 - .0787
-	⅝	⅝	2	.191	2 ⅝	37042803	217.90	.0788 - .1099
-	⅝	⅝	2	.217	2 ⅝	37042804	217.90	.1100 - .1400
507	⅝	⅝	2	.246	2 ⅝	37040507	217.90	.1401 - .1713
607	⅝	⅝	2	.279	2 ⅝	37040607	217.90	.1714 - .2025
707	⅝	⅝	2	.312	2 ⅝	37040707	217.90	.2026 - .2339
807	⅝	⅝	2	.342	2 ⅝	37040807	217.90	.2340 - .2650
-	1	⅝	2	.191	2 ⅝	37043203	230.00	.0788 - .1088
-	1	⅝	2	.217	2 ⅝	37043204	230.00	.1089 - .1400
-	1	⅝	2	.246	2 ⅝	37043205	230.00	.1401 - .1713
608	1	⅝	2	.279	2 ⅝	37040608	230.00	.1714 - .2025
708	1	⅝	2	.312	2 ⅝	37040708	230.00	.2026 - .2339
808	1	⅝	2	.342	2 ⅝	37040808	230.00	.2340 - .2650
-	1	⅝	2	.401	2 ⅝	37043209	230.00	.2651 - .2968
1008	1	⅝	2	.401	2 ⅝	37041008	230.00	.2969 - .3281
-	1	⅝	2	.467	2 ⅝	37043211	230.00	.3282 - .3593
1208	1	⅝	2	.467	2 ⅝	37041208	230.00	.3594 - .3900
-	1 ⅝	⅝	2	.217	2 ⅝	37043603	230.00	.0788 - .1088
-	1 ⅝	⅝	2	.246	2 ⅝	37043604	230.00	.1089 - .1400
-	1 ⅝	⅝	2	.279	2 ⅝	37043605	230.00	.1401 - .1713
609	1 ⅝	⅝	2	.312	2 ⅝	37040609	230.00	.1714 - .2025
709	1 ⅝	⅝	2	.342	2 ⅝	37040709	230.00	.2026 - .2339
809	1 ⅝	⅝	2	.374	2 ⅝	37040809	230.00	.2340 - .2650
-	1 ⅝	⅝	2	.435	2 ⅝	37043609	230.00	.2651 - .2968
1009	1 ⅝	⅝	2	.435	2 ⅝	37041009	230.00	.2969 - .3281
-	1 ⅝	⅝	2	.467	2 ⅝	37043611	230.00	.3282 - .3593
-	1 ⅝	⅝	2	.467	2 ⅝	37043612	230.00	.3594 - .3900
-	1 ¼	⅝	3	.217	2 ⅝	37044003	242.00	.0788 - .1088
-	1 ¼	⅝	3	.246	2 ⅝	37044004	242.00	.1089 - .1400
-	1 ¼	⅝	3	.279	2 ⅝	37044005	242.00	.1401 - .1713
610	1 ¼	⅝	3	.312	2 ⅝	37040610	242.00	.1714 - .2025
710	1 ¼	⅝	3	.342	2 ⅝	37040710	242.00	.2026 - .2339
810	1 ¼	⅝	3	.374	2 ⅝	37040810	242.00	.2340 - .2650
-	1 ¼	⅝	3	.435	2 ⅝	37044009	242.00	.2651 - .2968
1010	1 ¼	⅝	3	.435	2 ⅝	37041010	242.00	.2969 - .3281
-	1 ¼	⅝	3	.467	2 ⅝	37044011	242.00	.3282 - .3593
1210	1 ¼	⅝	3	.467	2 ⅝	37041210	242.00	.3594 - .3900

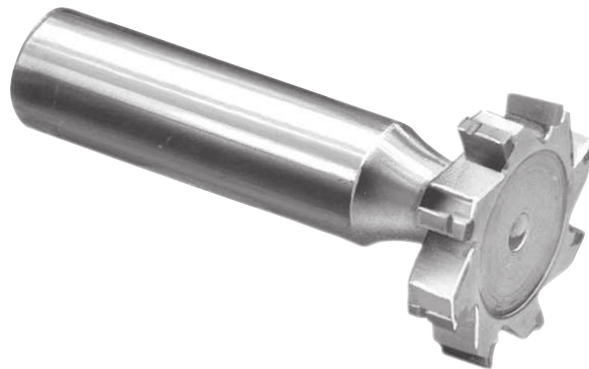
AMERICAN STANDARD NO.	TOOL DIAM.	WIDTH	NO. OF TEETH	NECK DIAM.	OAL	EDP NO.	PRICE EACH	DECIMAL SIZE RANGE
-	1 ⅝	⅝	3	.312	2 ⅝	37044403	\$266.25	.0788 - .1088
-	1 ⅝	⅝	3	.342	2 ⅝	37044404	266.25	.1089 - .1400
-	1 ⅝	⅝	3	.374	2 ⅝	37044405	266.25	.1401 - .1713
-	1 ⅝	⅝	3	.401	2 ⅝	37044406	266.25	.1714 - .2025
-	1 ⅝	⅝	3	.401	2 ⅝	37044407	266.25	.2026 - .2339
811	1 ⅝	⅝	3	.401	2 ⅝	37040811	266.25	.2340 - .2650
-	1 ⅝	⅝	3	.467	2 ⅝	37044409	266.25	.2651 - .2968
1011	1 ⅝	⅝	3	.467	2 ⅝	37041011	266.25	.2969 - .3281
-	1 ⅝	⅝	3	.467	2 ⅝	37044411	266.25	.3282 - .3593
1211	1 ⅝	⅝	3	.467	2 ⅝	37041211	266.25	.3594 - .3900
-	1 ½	⅝	3	.435	2 ⅝	37044803	302.65	.0788 - .1088
-	1 ½	⅝	3	.435	2 ⅝	37044804	302.65	.1089 - .1400
-	1 ½	⅝	3	.435	2 ⅝	37044805	302.65	.1401 - .1713
-	1 ½	⅝	3	.435	2 ⅝	37044806	302.65	.1714 - .2025
-	1 ½	⅝	3	.435	2 ⅝	37044807	302.65	.2026 - .2339
812	1 ½	⅝	3	.435	2 ⅝	37040812	302.65	.2340 - .2650
-	1 ½	⅝	3	.467	2 ⅝	37044809	302.65	.2651 - .2968
1012	1 ½	⅝	3	.467	2 ⅝	37041012	302.65	.2969 - .3281
-	1 ½	⅝	3	.467	2 ⅝	37044811	302.65	.3282 - .3593
1212	1 ½	⅝	3	.467	2 ⅝	37041212	363.10	.3594 - .3900
-	1 ½	⅝	3	.467	2 ⅝	37044813	363.10	.3901 - .4219
-	1 ½	⅝	3	.467	2 ⅝	37044814	363.10	.4220 - .4531
-	1 ½	⅝	3	.467	2 ⅝	37044815	363.10	.4532 - .4843
-	1 ½	⅝	3	.467	2 ⅝	37044816	363.10	.4844 - .5150
-	1 ¾	⅝	4	.718	3 ⅝	37045604	334.00	.1089 - .1400
-	1 ¾	⅝	4	.718	3 ⅝	37045605	334.00	.1401 - .1713
-	1 ¾	⅝	4	.718	3 ⅝	37045606	334.00	.1714 - .2025
-	1 ¾	⅝	4	.718	3 ⅝	37045607	334.00	.2026 - .2339
-	1 ¾	⅝	4	.718	3 ⅝	37045608	334.00	.2340 - .2650
-	1 ¾	⅝	4	.718	3 ⅝	37045609	334.00	.2651 - .2968
-	1 ¾	⅝	4	.718	3 ⅝	37045610	334.00	.2969 - .3281
-	1 ¾	⅝	4	.718	3 ⅝	37045611	334.00	.3282 - .3593
-	1 ¾	⅝	4	.718	3 ⅝	37045612	392.20	.3594 - .3900
-	1 ¾	⅝	4	.718	3 ⅝	37045613	392.20	.3901 - .4219
-	1 ¾	⅝	4	.718	3 ⅝	37045614	392.20	.4220 - .4531
-	1 ¾	⅝	4	.718	3 ⅝	37045615	392.20	.4532 - .4843
-	1 ¾	⅝	4	.718	3 ⅝	37045616	392.20	.4844 - .5150
-	2	⅝	4	.718	3 ⅝	37046404	387.20	.1089 - .1400
-	2	⅝	4	.718	3 ⅝	37046405	387.20	.1401 - .1713
-	2	⅝	4	.718	3 ⅝	37046406	387.20	.1714 - .2025
-	2	⅝	4	.718	3 ⅝	37046407	387.20	.2026 - .2339
-	2	⅝	4	.718	3 ⅝	37046408	387.20	.2340 - .2650
-	2	⅝	4	.718	3 ⅝	37046409	387.20	.2651 - .2968
-	2	⅝	4	.718	3 ⅝	37046410	387.20	.2969 - .3281
-	2	⅝	4	.718	3 ⅝	37046411	387.20	.3282 - .3593
-	2	⅝	4	.718	3 ⅝	37046412	447.85	.3594 - .3900
-	2	⅝	4	.718	3 ⅝	37046413	447.85	.3901 - .4219
-	2	⅝	4	.718	3 ⅝	37046414	447.85	.4220 - .4531
-	2	⅝	4	.718	3 ⅝	37046415	447.85	.4532 - .4843
-	2	⅝	4	.718	3 ⅝	37046416	447.85	.4844 - .5150

CARBIDE TIPPED STRAIGHT TOOTH KEYSEAT CUTTERS FOR NON-FERROUS & CAST IRON

TYPE 3700 - STRAIGHT TOOTH

Carbide tips brazed to hardened alloy steel bodies.

Fast cutting to close tolerance with longer tool life. For milling slots in cast iron, non-ferrous metals, plastics and non-metals. Chip breakers are on all cutters $\frac{3}{32}$ " and greater width. Decimal size cutters DO NOT have chip breakers.



Tool diameter tolerance: $+.020"/+.015"$.

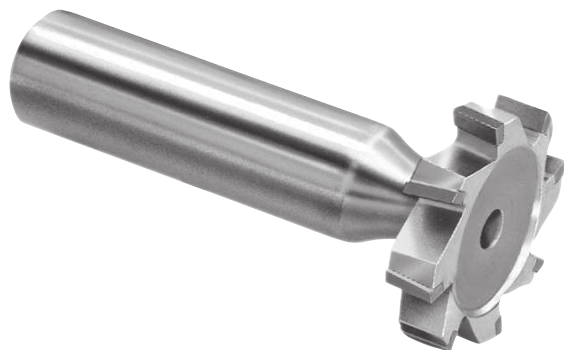
Face width tolerance: $+.0000"/-.0005"$.

Straight shank: $\frac{1}{2}$ " diameter, 2" long.

AMERICAN STANDARD NO.	TOOL DIAM.	NO. OF TEETH	WIDTH	NECK DIAM.	OVERALL LENGTH	EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
									1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
204	$\frac{1}{2}$	6	$\frac{1}{16}$	.130	2 $\frac{1}{16}$	37000204	\$157.95	.0575 - .0787	\$212.75	\$189.10	\$181.20	\$177.45	\$173.45	\$170.10
304	$\frac{1}{2}$	6	$\frac{3}{32}$	.160	2 $\frac{3}{32}$	37000304	157.95	.0788 - .1088	212.75	189.10	181.20	177.45	173.45	170.10
404	$\frac{1}{2}$	6	$\frac{1}{8}$	.191	2 $\frac{1}{8}$	37000404	157.95	.1089 - .1400	212.75	189.10	181.20	177.45	173.45	170.10
305	$\frac{5}{8}$	6	$\frac{3}{32}$	.191	2 $\frac{3}{32}$	37000305	163.65	.0788 - .1088	218.70	195.05	187.10	183.20	179.25	176.05
405	$\frac{5}{8}$	6	$\frac{1}{8}$	.223	2 $\frac{1}{8}$	37000405	163.65	.1089 - .1400	218.70	195.05	187.10	183.20	179.25	176.05
505	$\frac{5}{8}$	6	$\frac{5}{32}$	.252	2 $\frac{5}{32}$	37000505	163.65	.1401 - .1713	218.70	195.05	187.10	183.20	179.25	176.05
605	$\frac{5}{8}$	6	$\frac{3}{16}$	.279	2 $\frac{3}{16}$	37000605	163.65	.1714 - .2025	218.70	195.05	187.10	183.20	179.25	176.05
406	$\frac{3}{4}$	6	$\frac{1}{8}$	.217	2 $\frac{1}{8}$	37000406	170.80	.1100 - .1400	226.20	202.55	194.50	190.80	186.80	183.55
506	$\frac{3}{4}$	6	$\frac{5}{32}$	.246	2 $\frac{5}{32}$	37000506	170.80	.1401 - .1713	226.20	202.55	194.50	190.80	186.80	183.55
606	$\frac{3}{4}$	6	$\frac{3}{16}$	.279	2 $\frac{3}{16}$	37000606	170.80	.1714 - .2025	226.20	202.55	194.50	190.80	186.80	183.55
-	$\frac{3}{4}$	6	$\frac{7}{32}$	.342	2 $\frac{7}{32}$	37002407	187.10	.2026 - .2339	226.20	202.55	194.50	190.80	186.80	183.55
806	$\frac{3}{4}$	6	$\frac{1}{4}$	.342	2 $\frac{1}{4}$	37000806	170.80	.2340 - .2650	226.20	202.55	194.50	190.80	186.80	183.55
507	$\frac{7}{8}$	6	$\frac{5}{32}$	.246	2 $\frac{5}{32}$	37000507	178.85	.1401 - .1713	234.60	211.00	203.00	199.35	195.25	191.95
607	$\frac{7}{8}$	6	$\frac{3}{16}$	.279	2 $\frac{3}{16}$	37000607	178.85	.1714 - .2025	234.60	211.00	203.00	199.35	195.25	191.95
707	$\frac{7}{8}$	6	$\frac{7}{32}$	.312	2 $\frac{7}{32}$	37000707	178.85	.2026 - .2339	234.60	211.00	203.00	199.35	195.25	191.95
807	$\frac{7}{8}$	6	$\frac{1}{4}$	.342	2 $\frac{1}{4}$	37000807	178.85	.2340 - .2650	234.60	211.00	203.00	199.35	195.25	191.95
608	1	8	$\frac{3}{16}$	.279	2 $\frac{3}{16}$	37000608	201.85	.1714 - .2025	258.65	235.05	226.95	223.25	219.25	216.00
708	1	8	$\frac{7}{32}$	.312	2 $\frac{7}{32}$	37000708	201.85	.2026 - .2339	258.65	235.05	226.95	223.25	219.25	216.00
808	1	8	$\frac{1}{4}$	.342	2 $\frac{1}{4}$	37000808	201.85	.2340 - .2650	258.65	235.05	226.95	223.25	219.25	216.00
-	1	8	$\frac{9}{32}$	.401	2 $\frac{9}{32}$	37003209	221.05	.2651 - .2968	258.65	235.05	226.95	223.25	219.25	216.00
1008	1	8	$\frac{5}{16}$	.401	2 $\frac{5}{16}$	37001008	201.85	.2969 - .3281	258.65	235.05	226.95	223.25	219.25	216.00
-	1	8	$\frac{11}{32}$	.467	2 $\frac{11}{32}$	37003211	221.05	.3282 - .3593	258.65	235.05	226.95	223.25	219.25	216.00
1208	1	8	$\frac{3}{8}$	.467	2 $\frac{3}{8}$	37001208	201.85	.3594 - .3900	258.65	235.05	226.95	223.25	219.25	216.00
609	1 $\frac{1}{8}$	8	$\frac{3}{16}$	.312	2 $\frac{3}{16}$	37000609	211.90	.1714 - .2025	269.20	245.70	237.70	233.90	229.90	226.65
709	1 $\frac{1}{8}$	8	$\frac{7}{32}$	.342	2 $\frac{7}{32}$	37000709	211.90	.2026 - .2339	269.20	245.70	237.70	233.90	229.90	226.65
809	1 $\frac{1}{8}$	8	$\frac{1}{4}$	.374	2 $\frac{1}{4}$	37000809	211.90	.2340 - .2650	269.20	245.70	237.70	233.90	229.90	226.65
-	1 $\frac{1}{8}$	8	$\frac{9}{32}$	.435	2 $\frac{9}{32}$	37003609	232.15	.2651 - .2968	269.20	245.70	237.70	233.90	229.90	226.65
1009	1 $\frac{1}{8}$	8	$\frac{5}{16}$	.435	2 $\frac{5}{16}$	37001009	211.90	.2969 - .3281	269.20	245.70	237.70	233.90	229.90	226.65
610	1 $\frac{1}{4}$	8	$\frac{3}{16}$	.312	2 $\frac{3}{16}$	37000610	222.50	.1714 - .2025	280.30	256.80	248.90	245.00	241.00	237.70
710	1 $\frac{1}{4}$	8	$\frac{7}{32}$	.342	2 $\frac{7}{32}$	37000710	222.50	.2026 - .2339	280.30	256.80	248.90	245.00	241.00	237.70
810	1 $\frac{1}{4}$	8	$\frac{1}{4}$	.374	2 $\frac{1}{4}$	37000810	222.50	.2340 - .2650	280.30	256.80	248.90	245.00	241.00	237.70
-	1 $\frac{1}{4}$	8	$\frac{9}{32}$	.435	2 $\frac{9}{32}$	37004009	243.75	.2651 - .2968	280.30	256.80	248.90	245.00	241.00	237.70
1010	1 $\frac{1}{4}$	8	$\frac{5}{16}$	.435	2 $\frac{5}{16}$	37001010	222.50	.2969 - .3281	280.30	256.80	248.90	245.00	241.00	237.70
-	1 $\frac{1}{4}$	8	$\frac{11}{32}$	.467	2 $\frac{11}{32}$	37004011	243.75	.3282 - .3593	280.30	256.80	248.90	245.00	241.00	237.70
1210	1 $\frac{1}{4}$	8	$\frac{3}{8}$	.467	2 $\frac{3}{8}$	37001210	222.50	.3594 - .3900	280.30	256.80	248.90	245.00	241.00	237.70
811	1 $\frac{3}{8}$	8	$\frac{1}{4}$	.401	2 $\frac{1}{4}$	37000811	233.85	.2340 - .2650	292.10	268.55	260.60	256.80	252.75	249.55
-	1 $\frac{3}{8}$	8	$\frac{9}{32}$	.467	2 $\frac{9}{32}$	37004409	256.05	.2651 - .2968	292.10	268.55	260.60	256.80	252.75	249.55
1011	1 $\frac{3}{8}$	8	$\frac{5}{16}$	.467	2 $\frac{5}{16}$	37001011	233.85	.2969 - .3281	292.10	268.55	260.60	256.80	252.75	249.55
-	1 $\frac{3}{8}$	8	$\frac{11}{32}$	.467	2 $\frac{11}{32}$	37004411	256.05	.3282 - .3593	292.10	268.55	260.60	256.80	252.75	249.55
1211	1 $\frac{3}{8}$	8	$\frac{3}{8}$	.467	2 $\frac{3}{8}$	37001211	233.85	.3594 - .3900	292.10	268.55	260.60	256.80	252.75	249.55
812	1 $\frac{1}{2}$	8	$\frac{1}{4}$	.435	2 $\frac{1}{4}$	37000812	245.45	.2340 - .2650	304.30	280.80	272.85	269.05	265.00	261.80
-	1 $\frac{1}{2}$	8	$\frac{9}{32}$	.467	2 $\frac{9}{32}$	37004809	268.90	.2651 - .2968	304.30	280.80	272.85	269.05	265.00	261.80
1012	1 $\frac{1}{2}$	8	$\frac{5}{16}$	.467	2 $\frac{5}{16}$	37001012	245.45	.2969 - .3281	304.30	280.80	272.85	269.05	265.00	261.80
-	1 $\frac{1}{2}$	8	$\frac{11}{32}$	.467	2 $\frac{11}{32}$	37004811	268.90	.3282 - .3593	304.30	280.80	272.85	269.05	265.00	261.80
1212	1 $\frac{1}{2}$	8	$\frac{3}{8}$	.467	2 $\frac{3}{8}$	37001212	245.45	.3594 - .3900	304.30	280.80	272.85	269.05	265.00	261.80
-	1 $\frac{1}{2}$	8	$\frac{13}{32}$	.467	2 $\frac{13}{32}$	37004813	268.90	.3901 - .4219	304.30	280.80	272.85	269.05	265.00	261.80
-	1 $\frac{1}{2}$	8	$\frac{7}{16}$	.467	2 $\frac{7}{16}$	37004814	268.90	.4220 - .4531	304.30	280.80	272.85	269.05	265.00	261.80
-	1 $\frac{1}{2}$	8	$\frac{15}{32}$	.467	2 $\frac{15}{32}$	37004815	268.90	.4532 - .4843	304.30	280.80	272.85	269.05	265.00	261.80
-	1 $\frac{1}{2}$	8	$\frac{1}{2}$	.467	2 $\frac{1}{2}$	37004816	268.90	.4844 - .5150	304.30	280.80	272.85	269.05	265.00	261.80

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CARBIDE TIPPED STAGGERED TOOTH KEYSEAT CUTTERS FOR NON-FERROUS & CAST IRON



TYPE 3701 - STAGGERED TOOTH

Carbide tips brazed to hardened alloy steel bodies.

Alternate 10° right and left axial rake. For milling slots in cast iron, non-ferrous metals, plastics and non-metals.

Tool diameter tolerance: +.020"/+.015".
Face width tolerance: +.0000"/-.0005".
Straight shank: 1/2" diameter, 2" long.

AMERICAN STANDARD NO.	TOOL DIAM.	NO. OF TEETH	WIDTH	NECK DIAM.	OVERALL LENGTH	EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
									1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
204	1/2	6	1/16	.130	2 1/16	37010204	\$185.80	.0575 - .0787	\$241.90	\$218.35	\$210.30	\$206.60	\$202.55	\$199.35
304	1/2	6	3/32	.160	2 3/32	37010304	185.80	.0788 - .1088	241.90	218.35	210.30	206.60	202.55	199.35
404	1/2	6	1/8	.191	2 1/8	37010404	185.80	.1089 - .1400	241.90	218.35	210.30	206.60	202.55	199.35
305	5/8	6	3/32	.191	2 3/32	37010305	192.50	.0788 - .1088	248.95	225.35	217.35	213.50	209.50	206.30
405	5/8	6	1/8	.223	2 1/8	37010405	192.50	.1089 - .1400	248.95	225.35	217.35	213.50	209.50	206.30
505	5/8	6	5/32	.252	2 5/32	37010505	192.50	.1401 - .1713	248.95	225.35	217.35	213.50	209.50	206.30
605	5/8	6	3/16	.279	2 3/16	37010605	192.50	.1714 - .2025	248.95	225.35	217.35	213.50	209.50	206.30
406	3/4	6	1/8	.217	2 1/8	37010406	201.10	.1100 - .1400	257.95	234.35	226.35	222.50	218.65	215.40
506	3/4	6	5/32	.246	2 5/32	37010506	201.10	.1401 - .1713	257.95	234.35	226.35	222.50	218.65	215.40
606	3/4	6	3/16	.279	2 3/16	37010606	201.10	.1714 - .2025	257.95	234.35	226.35	222.50	218.65	215.40
-	3/4	6	7/32	.342	2 7/32	37012407	220.30	.2026 - .2339	257.95	234.35	226.35	222.50	218.65	215.40
806	3/4	6	1/4	.342	2 1/4	37010806	201.10	.2340 - .2650	257.95	234.35	226.35	222.50	218.65	215.40
507	7/8	6	5/32	.246	2 5/32	37010507	210.30	.1401 - .1713	267.55	243.90	236.00	232.15	228.15	225.00
607	7/8	6	3/16	.279	2 3/16	37010607	210.30	.1714 - .2025	267.55	243.90	236.00	232.15	228.15	225.00
707	7/8	6	7/32	.312	2 7/32	37010707	210.30	.2026 - .2339	267.55	243.90	236.00	232.15	228.15	225.00
807	7/8	6	1/4	.342	2 1/4	37010807	210.30	.2340 - .2650	267.55	243.90	236.00	232.15	228.15	225.00
608	1	8	3/16	.279	2 3/16	37010608	237.30	.1714 - .2025	295.90	272.15	264.30	260.45	256.45	253.35
708	1	8	7/32	.312	2 7/32	37010708	237.30	.2026 - .2339	295.90	272.15	264.30	260.45	256.45	253.35
808	1	8	1/4	.342	2 1/4	37010808	237.30	.2340 - .2650	295.90	272.15	264.30	260.45	256.45	253.35
-	1	8	9/32	.401	2 9/32	37013209	260.00	.2651 - .2968	295.90	272.15	264.30	260.45	256.45	253.35
1008	1	8	5/16	.401	2 5/16	37011008	237.30	.2969 - .3281	295.90	272.15	264.30	260.45	256.45	253.35
-	1	8	11/32	.467	2 11/32	37013211	260.00	.3282 - .3593	295.90	272.15	264.30	260.45	256.45	253.35
1208	1	8	3/8	.467	2 3/8	37011208	237.30	.3594 - .3900	295.90	272.15	264.30	260.45	256.45	253.35
609	1 1/8	8	3/16	.312	2 3/16	37010609	249.20	.1714 - .2025	308.20	284.55	276.60	272.85	268.90	265.60
709	1 1/8	8	7/32	.342	2 7/32	37010709	249.20	.2026 - .2339	308.20	284.55	276.60	272.85	268.90	265.60
809	1 1/8	8	1/4	.374	2 1/4	37010809	249.20	.2340 - .2650	308.20	284.55	276.60	272.85	268.90	265.60
-	1 1/8	8	9/32	.435	2 9/32	37013609	272.85	.2651 - .2968	308.20	284.55	276.60	272.85	268.90	265.60
1009	1 1/8	8	5/16	.435	2 5/16	37011009	249.20	.2969 - .3281	308.20	284.55	276.60	272.85	268.90	265.60
610	1 1/4	8	3/16	.312	2 3/16	37010610	261.75	.1714 - .2025	321.30	297.70	289.85	285.90	281.85	278.65
710	1 1/4	8	7/32	.342	2 7/32	37010710	261.75	.2026 - .2339	321.30	297.70	289.85	285.90	281.85	278.65
810	1 1/4	8	1/4	.374	2 1/4	37010810	261.75	.2340 - .2650	321.30	297.70	289.85	285.90	281.85	278.65
-	1 1/4	8	9/32	.435	2 9/32	37014009	286.60	.2651 - .2968	321.30	297.70	289.85	285.90	281.85	278.65
1010	1 1/4	8	5/16	.435	2 5/16	37011010	261.75	.2969 - .3281	321.30	297.70	289.85	285.90	281.85	278.65
-	1 1/4	8	11/32	.467	2 11/32	37014011	286.60	.3282 - .3593	321.30	297.70	289.85	285.90	281.85	278.65
1210	1 1/4	8	3/8	.467	2 3/8	37011210	261.75	.3594 - .3900	321.30	297.70	289.85	285.90	281.85	278.65
811	1 3/8	8	1/4	.401	2 1/4	37010811	274.90	.2340 - .2650	335.20	311.70	303.75	299.85	295.90	292.55
-	1 3/8	8	9/32	.467	2 9/32	37014409	301.10	.2651 - .2968	335.20	311.70	303.75	299.85	295.90	292.55
1011	1 3/8	8	5/16	.467	2 5/16	37011011	274.90	.2969 - .3281	335.20	311.70	303.75	299.85	295.90	292.55
-	1 3/8	8	11/32	.467	2 11/32	37014411	301.10	.3282 - .3593	335.20	311.70	303.75	299.85	295.90	292.55
1211	1 3/8	8	3/8	.467	2 3/8	37011211	274.90	.3594 - .3900	335.20	311.70	303.75	299.85	295.90	292.55
812	1 1/2	8	1/4	.435	2 1/4	37010812	288.70	.2340 - .2650	349.55	326.00	318.05	314.35	310.25	307.00
-	1 1/2	8	9/32	.467	2 9/32	37014809	316.25	.2651 - .2968	349.55	326.00	318.05	314.35	310.25	307.00
1012	1 1/2	8	5/16	.467	2 5/16	37011012	288.70	.2969 - .3281	349.55	326.00	318.05	314.35	310.25	307.00
-	1 1/2	8	11/32	.467	2 11/32	37014811	316.25	.3282 - .3593	349.55	326.00	318.05	314.35	310.25	307.00
1212	1 1/2	8	3/8	.467	2 3/8	37011212	288.70	.3594 - .3900	349.55	326.00	318.05	314.35	310.25	307.00
-	1 1/2	8	13/32	.467	2 13/32	37014813	316.25	.3901 - .4219	349.55	326.00	318.05	314.35	310.25	307.00
-	1 1/2	8	7/16	.467	2 7/16	37014814	316.25	.4220 - .4531	349.55	326.00	318.05	314.35	310.25	307.00
-	1 1/2	8	15/32	.467	2 15/32	37014815	316.25	.4532 - .4843	349.55	326.00	318.05	314.35	310.25	307.00
-	1 1/2	8	1/2	.467	2 1/2	37014816	316.25	.4844 - .5150	349.55	326.00	318.05	314.35	310.25	307.00

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*Quantities of 15 or more: price of fractional size in same size range.

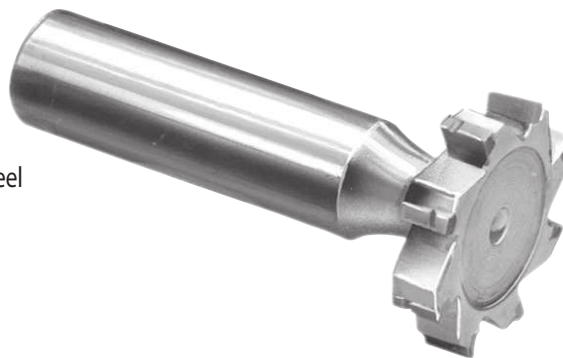
Made in U.S.A.

CARBIDE TIPPED STRAIGHT TOOTH KEYSEAT CUTTERS FOR STEEL

TYPE 3702 - STRAIGHT TOOTH

Carbide tips brazed to hardened alloy steel bodies.

Fast cutting to close tolerance with longer tool life. For milling slots in steel and steel alloys. Chip breakers are on all cutters $\frac{5}{32}$ " and greater width. Decimal size cutters DO NOT have chip breakers.

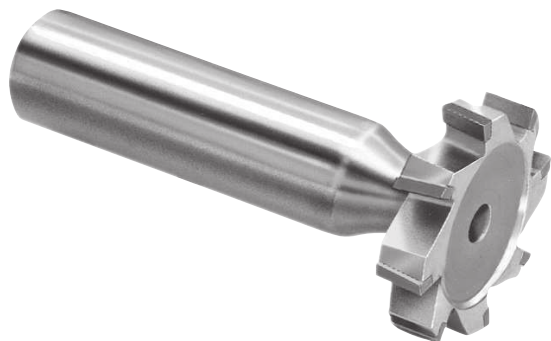


Tool diameter tolerance: $+.020"/+.015"$.
Face width tolerance: $+.0000"/-.0005"$.
Straight shank: $\frac{1}{2}$ " diameter, 2" long.

AMERICAN STANDARD NO.	TOOL DIAM.	NO. OF TEETH	WIDTH	NECK DIAM.	OVERALL LENGTH	EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
									1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
204	$\frac{1}{2}$	6	$\frac{1}{16}$	.130	$2\frac{1}{16}$	37020204	\$182.50	.0575 - .0787	\$240.80	\$216.00	\$207.60	\$203.65	\$199.45	\$196.05
304	$\frac{1}{2}$	6	$\frac{3}{32}$	.160	$2\frac{3}{32}$	37020304	182.50	.0788 - .1088	240.80	216.00	207.60	203.65	199.45	196.05
404	$\frac{1}{2}$	6	$\frac{1}{8}$	.191	$2\frac{1}{8}$	37020404	182.50	.1089 - .1400	240.80	216.00	207.60	203.65	199.45	196.05
305	$\frac{5}{8}$	6	$\frac{3}{32}$	.191	$2\frac{3}{32}$	37020305	189.10	.0788 - .1088	247.50	222.70	214.50	210.40	206.30	202.85
405	$\frac{5}{8}$	6	$\frac{1}{8}$	.223	$2\frac{1}{8}$	37020405	189.10	.1089 - .1400	247.50	222.70	214.50	210.40	206.30	202.85
505	$\frac{5}{8}$	6	$\frac{5}{32}$	.252	$2\frac{5}{32}$	37020505	189.10	.1401 - .1713	247.50	222.70	214.50	210.40	206.30	202.85
605	$\frac{5}{8}$	6	$\frac{3}{16}$	.279	$2\frac{3}{16}$	37020605	189.10	.1714 - .2025	247.50	222.70	214.50	210.40	206.30	202.85
406	$\frac{3}{4}$	6	$\frac{1}{8}$	.217	$2\frac{1}{8}$	37020406	197.30	.1100 - .1400	256.35	231.55	223.15	219.10	214.95	211.55
506	$\frac{3}{4}$	6	$\frac{5}{32}$	.246	$2\frac{5}{32}$	37020506	197.30	.1401 - .1713	256.35	231.55	223.15	219.10	214.95	211.55
606	$\frac{3}{4}$	6	$\frac{3}{16}$	.279	$2\frac{3}{16}$	37020606	197.30	.1714 - .2025	256.35	231.55	223.15	219.10	214.95	211.55
-	$\frac{3}{4}$	6	$\frac{7}{32}$	.342	$2\frac{7}{32}$	37022407	216.05	.2026 - .2339	256.35	231.55	223.15	219.10	214.95	211.55
806	$\frac{3}{4}$	6	$\frac{1}{4}$	.342	$2\frac{1}{4}$	37020806	197.30	.2340 - .2650	256.35	231.55	223.15	219.10	214.95	211.55
507	$\frac{7}{8}$	6	$\frac{5}{32}$	.246	$2\frac{5}{32}$	37020507	206.70	.1401 - .1713	266.05	241.25	232.85	228.85	224.70	221.20
607	$\frac{7}{8}$	6	$\frac{3}{16}$	.279	$2\frac{3}{16}$	37020607	206.70	.1714 - .2025	266.05	241.25	232.85	228.85	224.70	221.20
707	$\frac{7}{8}$	6	$\frac{7}{32}$	.312	$2\frac{7}{32}$	37020707	206.70	.2026 - .2339	266.05	241.25	232.85	228.85	224.70	221.20
807	$\frac{7}{8}$	6	$\frac{1}{4}$	.342	$2\frac{1}{4}$	37020807	206.70	.2340 - .2650	266.05	241.25	232.85	228.85	224.70	221.20
608	1	8	$\frac{3}{16}$	.279	$2\frac{3}{16}$	37020608	233.15	.1714 - .2025	293.65	269.00	260.50	256.60	252.45	249.05
708	1	8	$\frac{7}{32}$	.312	$2\frac{7}{32}$	37020708	233.15	.2026 - .2339	293.65	269.00	260.50	256.60	252.45	249.05
808	1	8	$\frac{1}{4}$	.342	$2\frac{1}{4}$	37020808	233.15	.2340 - .2650	293.65	269.00	260.50	256.60	252.45	249.05
-	1	8	$\frac{9}{32}$	.401	$2\frac{9}{32}$	37023209	255.40	.2651 - .2968	293.65	269.00	260.50	256.60	252.45	249.05
1008	1	8	$\frac{5}{16}$	.401	$2\frac{5}{16}$	37021008	233.15	.2969 - .3281	293.65	269.00	260.50	256.60	252.45	249.05
-	1	8	$\frac{11}{32}$	.467	$2\frac{11}{32}$	37023211	255.40	.3282 - .3593	293.65	269.00	260.50	256.60	252.45	249.05
1208	1	8	$\frac{3}{8}$	.467	$2\frac{3}{8}$	37021208	233.15	.3594 - .3900	293.65	269.00	260.50	256.60	252.45	249.05
609	$1\frac{1}{8}$	8	$\frac{3}{16}$	.312	$2\frac{3}{16}$	37020609	244.85	.1714 - .2025	306.05	281.30	272.85	269.00	264.75	261.25
709	$1\frac{1}{8}$	8	$\frac{7}{32}$	.342	$2\frac{7}{32}$	37020709	244.85	.2026 - .2339	306.05	281.30	272.85	269.00	264.75	261.25
809	$1\frac{1}{8}$	8	$\frac{1}{4}$	.374	$2\frac{1}{4}$	37020809	244.85	.2340 - .2650	306.05	281.30	272.85	269.00	264.75	261.25
-	$1\frac{1}{8}$	8	$\frac{9}{32}$	.435	$2\frac{9}{32}$	37023609	268.15	.2651 - .2968	306.05	281.30	272.85	269.00	264.75	261.25
1009	$1\frac{1}{8}$	8	$\frac{5}{16}$	.435	$2\frac{5}{16}$	37021009	244.85	.2969 - .3281	306.05	281.30	272.85	269.00	264.75	261.25
610	$1\frac{1}{4}$	8	$\frac{3}{16}$	.312	$2\frac{3}{16}$	37020610	257.05	.1714 - .2025	318.90	294.00	285.75	281.70	277.45	274.15
710	$1\frac{1}{4}$	8	$\frac{7}{32}$	.342	$2\frac{7}{32}$	37020710	257.05	.2026 - .2339	318.90	294.00	285.75	281.70	277.45	274.15
810	$1\frac{1}{4}$	8	$\frac{1}{4}$	.374	$2\frac{1}{4}$	37020810	257.05	.2340 - .2650	318.90	294.00	285.75	281.70	277.45	274.15
-	$1\frac{1}{4}$	8	$\frac{9}{32}$	.435	$2\frac{9}{32}$	37024009	281.55	.2651 - .2968	318.90	294.00	285.75	281.70	277.45	274.15
1010	$1\frac{1}{4}$	8	$\frac{5}{16}$	.435	$2\frac{5}{16}$	37021010	257.05	.2969 - .3281	318.90	294.00	285.75	281.70	277.45	274.15
-	$1\frac{1}{4}$	8	$\frac{11}{32}$	.467	$2\frac{11}{32}$	37024011	281.55	.3282 - .3593	318.90	294.00	285.75	281.70	277.45	274.15
1210	$1\frac{1}{4}$	8	$\frac{3}{8}$	.467	$2\frac{3}{8}$	37021210	257.05	.3594 - .3900	318.90	294.00	285.75	281.70	277.45	274.15
811	$1\frac{3}{8}$	8	$\frac{1}{4}$	.401	$2\frac{1}{4}$	37020811	270.05	.2340 - .2650	332.65	307.70	299.40	295.30	291.05	287.75
-	$1\frac{3}{8}$	8	$\frac{9}{32}$	.467	$2\frac{9}{32}$	37024409	295.65	.2651 - .2968	332.65	307.70	299.40	295.30	291.05	287.75
1011	$1\frac{3}{8}$	8	$\frac{5}{16}$	.467	$2\frac{5}{16}$	37021011	270.05	.2969 - .3281	332.65	307.70	299.40	295.30	291.05	287.75
-	$1\frac{3}{8}$	8	$\frac{11}{32}$	.467	$2\frac{11}{32}$	37024411	295.65	.3282 - .3593	332.65	307.70	299.40	295.30	291.05	287.75
1211	$1\frac{3}{8}$	8	$\frac{3}{8}$	.467	$2\frac{3}{8}$	37021211	270.05	.3594 - .3900	332.65	307.70	299.40	295.30	291.05	287.75
812	$1\frac{1}{2}$	8	$\frac{1}{4}$	.435	$2\frac{1}{4}$	37020812	283.50	.2340 - .2650	346.65	321.90	313.60	309.60	305.25	302.00
-	$1\frac{1}{2}$	8	$\frac{9}{32}$	.467	$2\frac{9}{32}$	37024809	310.50	.2651 - .2968	346.65	321.90	313.60	309.60	305.25	302.00
1012	$1\frac{1}{2}$	8	$\frac{5}{16}$	.467	$2\frac{5}{16}$	37021012	283.50	.2969 - .3281	346.65	321.90	313.60	309.60	305.25	302.00
-	$1\frac{1}{2}$	8	$\frac{11}{32}$	.467	$2\frac{11}{32}$	37024811	310.50	.3282 - .3593	346.65	321.90	313.60	309.60	305.25	302.00
1212	$1\frac{1}{2}$	8	$\frac{3}{8}$	.467	$2\frac{3}{8}$	37021212	283.50	.3594 - .3900	346.65	321.90	313.60	309.60	305.25	302.00
-	$1\frac{1}{2}$	8	$\frac{13}{32}$	.467	$2\frac{13}{32}$	37024813	310.50	.3901 - .4219	346.65	321.90	313.60	309.60	305.25	302.00
-	$1\frac{1}{2}$	8	$\frac{7}{16}$	.467	$2\frac{7}{16}$	37024814	310.50	.4220 - .4531	346.65	321.90	313.60	309.60	305.25	302.00
-	$1\frac{1}{2}$	8	$\frac{15}{32}$	.467	$2\frac{15}{32}$	37024815	310.50	.4532 - .4843	346.65	321.90	313.60	309.60	305.25	302.00
-	$1\frac{1}{2}$	8	$\frac{1}{2}$	.467	$2\frac{1}{2}$	37024816	310.50	.4844 - .5150	346.65	321.90	313.60	309.60	305.25	302.00

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CARBIDE TIPPED STAGGERED TOOTH KEYSEAT CUTTERS FOR STEEL



TYPE 3703 - STAGGERED TOOTH

Carbide tips brazed to hardened alloy steel bodies.

Alternate 10° right and left axial rake. For milling slots in steel and steel alloys.

Tool diameter tolerance: +.020"/+.015".

Face width tolerance: +.0000"/-.0005".

Straight shank: 1/2" diameter, 2" long.

AMERICAN STANDARD NO.	TOOL DIAM.	NO. OF TEETH	WIDTH	NECK DIAM.	OVERALL LENGTH	EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
									1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
204	1/2	6	1/16	.130	2 1/16	37030204	\$214.70	.0575 - .0787	\$274.50	\$249.70	\$241.40	\$237.30	\$233.15	\$229.80
304	1/2	6	3/32	.160	2 3/32	37030304	214.70	.0788 - .1088	274.50	249.70	241.40	237.30	233.15	229.80
404	1/2	6	1/8	.191	2 1/8	37030404	214.70	.1089 - .1400	274.50	249.70	241.40	237.30	233.15	229.80
305	5/8	6	3/32	.191	2 3/32	37030305	222.25	.0788 - .1088	282.45	257.70	249.40	245.40	241.25	237.75
405	5/8	6	1/8	.223	2 1/8	37030405	222.25	.1089 - .1400	282.45	257.70	249.40	245.40	241.25	237.75
505	5/8	6	5/32	.252	2 5/32	37030505	222.25	.1401 - .1713	282.45	257.70	249.40	245.40	241.25	237.75
605	5/8	6	3/16	.279	2 3/16	37030605	222.25	.1714 - .2025	282.45	257.70	249.40	245.40	241.25	237.75
406	3/4	6	1/8	.217	2 1/8	37030406	232.30	.1100 - .1400	292.95	268.25	259.90	255.90	251.60	248.20
506	3/4	6	5/32	.246	2 5/32	37030506	232.30	.1401 - .1713	292.95	268.25	259.90	255.90	251.60	248.20
606	3/4	6	3/16	.279	2 3/16	37030606	232.30	.1714 - .2025	292.95	268.25	259.90	255.90	251.60	248.20
-	3/4	6	7/32	.342	2 7/32	37032407	254.40	.2026 - .2339	292.95	268.25	259.90	255.90	251.60	248.20
806	3/4	6	1/4	.342	2 1/4	37030806	232.30	.2340 - .2650	292.95	268.25	259.90	255.90	251.60	248.20
507	7/8	6	5/32	.246	2 5/32	37030507	243.05	.1401 - .1713	304.05	279.35	270.95	266.80	262.65	259.45
607	7/8	6	3/16	.279	2 3/16	37030607	243.05	.1714 - .2025	304.05	279.35	270.95	266.80	262.65	259.45
707	7/8	6	7/32	.312	2 7/32	37030707	243.05	.2026 - .2339	304.05	279.35	270.95	266.80	262.65	259.45
807	7/8	6	1/4	.342	2 1/4	37030807	243.05	.2340 - .2650	304.05	279.35	270.95	266.80	262.65	259.45
608	1	8	3/16	.279	2 3/16	37030608	274.15	.1714 - .2025	336.65	312.00	303.60	299.60	295.35	292.05
708	1	8	7/32	.312	2 7/32	37030708	274.15	.2026 - .2339	336.65	312.00	303.60	299.60	295.35	292.05
808	1	8	1/4	.342	2 1/4	37030808	274.15	.2340 - .2650	336.65	312.00	303.60	299.60	295.35	292.05
-	1	8	9/32	.401	2 9/32	37033209	300.35	.2651 - .2968	336.65	312.00	303.60	299.60	295.35	292.05
1008	1	8	5/16	.401	2 5/16	37031008	274.15	.2969 - .3281	336.65	312.00	303.60	299.60	295.35	292.05
-	1	8	11/32	.467	2 11/32	37033211	300.35	.3282 - .3593	336.65	312.00	303.60	299.60	295.35	292.05
1208	1	8	3/8	.467	2 3/8	37031208	274.15	.3594 - .3900	336.65	312.00	303.60	299.60	295.35	292.05
609	1 1/8	8	3/16	.312	2 3/16	37030609	287.75	.1714 - .2025	351.00	326.15	317.90	313.90	309.75	306.20
709	1 1/8	8	7/32	.342	2 7/32	37030709	287.75	.2026 - .2339	351.00	326.15	317.90	313.90	309.75	306.20
809	1 1/8	8	1/4	.374	2 1/4	37030809	287.75	.2340 - .2650	351.00	326.15	317.90	313.90	309.75	306.20
-	1 1/8	8	9/32	.435	2 9/32	37033609	315.10	.2651 - .2968	351.00	326.15	317.90	313.90	309.75	306.20
1009	1 1/8	8	5/16	.435	2 5/16	37031009	287.75	.2969 - .3281	351.00	326.15	317.90	313.90	309.75	306.20
610	1 1/4	8	3/16	.312	2 3/16	37030610	302.25	.1714 - .2025	366.15	341.35	333.10	329.10	324.95	321.45
710	1 1/4	8	7/32	.342	2 7/32	37030710	302.25	.2026 - .2339	366.15	341.35	333.10	329.10	324.95	321.45
810	1 1/4	8	1/4	.374	2 1/4	37030810	302.25	.2340 - .2650	366.15	341.35	333.10	329.10	324.95	321.45
-	1 1/4	8	9/32	.435	2 9/32	37034009	331.15	.2651 - .2968	366.15	341.35	333.10	329.10	324.95	321.45
1010	1 1/4	8	5/16	.435	2 5/16	37031010	302.25	.2969 - .3281	366.15	341.35	333.10	329.10	324.95	321.45
-	1 1/4	8	11/32	.467	2 11/32	37034011	331.15	.3282 - .3593	366.15	341.35	333.10	329.10	324.95	321.45
1210	1 1/4	8	3/8	.467	2 3/8	37031210	302.25	.3594 - .3900	366.15	341.35	333.10	329.10	324.95	321.45
811	1 3/8	8	1/4	.401	2 1/4	37030811	317.65	.2340 - .2650	382.25	357.50	349.05	345.10	340.90	337.50
-	1 3/8	8	9/32	.467	2 9/32	37034409	347.75	.2651 - .2968	382.25	357.50	349.05	345.10	340.90	337.50
1011	1 3/8	8	5/16	.467	2 5/16	37031011	317.65	.2969 - .3281	382.25	357.50	349.05	345.10	340.90	337.50
-	1 3/8	8	11/32	.467	2 11/32	37034411	347.75	.3282 - .3593	382.25	357.50	349.05	345.10	340.90	337.50
1211	1 3/8	8	3/8	.467	2 3/8	37031211	317.65	.3594 - .3900	382.25	357.50	349.05	345.10	340.90	337.50
812	1 1/2	8	1/4	.435	2 1/4	37030812	333.45	.2340 - .2650	398.85	374.05	365.75	361.75	357.50	354.25
-	1 1/2	8	9/32	.467	2 9/32	37034809	365.20	.2651 - .2968	398.85	374.05	365.75	361.75	357.50	354.25
1012	1 1/2	8	5/16	.467	2 5/16	37031012	333.45	.2969 - .3281	398.85	374.05	365.75	361.75	357.50	354.25
-	1 1/2	8	11/32	.467	2 11/32	37034811	365.20	.3282 - .3593	398.85	374.05	365.75	361.75	357.50	354.25
1212	1 1/2	8	3/8	.467	2 3/8	37031212	333.45	.3594 - .3900	398.85	374.05	365.75	361.75	357.50	354.25
-	1 1/2	8	13/32	.467	2 13/32	37034813	365.20	.3901 - .4219	398.85	374.05	365.75	361.75	357.50	354.25
-	1 1/2	8	7/16	.467	2 7/16	37034814	365.20	.4220 - .4531	398.85	374.05	365.75	361.75	357.50	354.25
-	1 1/2	8	15/32	.467	2 15/32	37034815	365.20	.4532 - .4843	398.85	374.05	365.75	361.75	357.50	354.25
-	1 1/2	8	1/2	.467	2 1/2	37034816	365.20	.4844 - .5150	398.85	374.05	365.75	361.75	357.50	354.25

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*Quantities of 15 or more: price of fractional size in same size range.

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CARBIDE TIPPED CHAMFER MILLING CUTTERS

SINGLE ANGLE CUTTERS

TYPE 3730 - 45° - FOR NON-FERROUS & CAST IRON

TYPE 3731 - 45° - FOR STEEL

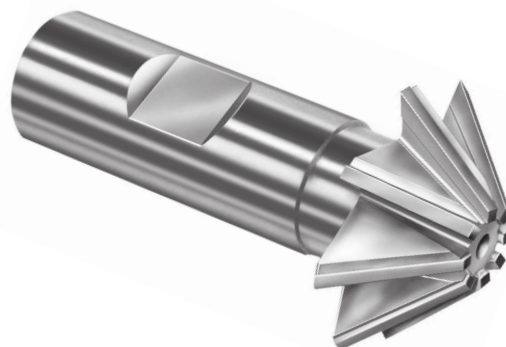
TYPE 3732 - 60° - FOR NON-FERROUS & CAST IRON

TYPE 3733 - 60° - FOR STEEL

Carbide tips brazed to hardened alloy steel bodies. Right hand cut. Straight shank with Weldon flats.

Angle tolerance: $\pm 1/4^\circ$.

Tool diameter tolerance: $\pm .015"/-.000"$.



TOOL DIAMETER	SHANK DIAMETER	NO. OF TEETH	OVERALL LENGTH	45° ANGLE					60° ANGLE				
				CUTTER WIDTH	TYPE 3730 EDP NO.	PRICE EACH	TYPE 3731 EDP NO.	PRICE EACH	CUTTER WIDTH	TYPE 3732 EDP NO.	PRICE EACH	TYPE 3733 EDP NO.	PRICE EACH
1/2	3/8	4	2 1/8	1/8	373016	\$265.80	373116	\$292.25	7/32	373216	\$265.80	373316	\$292.25
3/4	3/8	6	2 1/8	3/16	373024	286.50	373124	315.10	5/16	373224	286.50	373324	315.10
1	1/2	6	2 1/2	5/16	373032	336.20	373132	369.70	7/16	373232	336.20	373332	369.70
1 1/2	3/4	8	2 3/4	1/2	373048	426.00	373148	468.85	5/8	373248	426.00	373348	468.85

DOUBLE ANGLE CUTTERS

TYPE 3746 - 60° - FOR NON-FERROUS & CAST IRON

TYPE 3747 - 60° - FOR STEEL

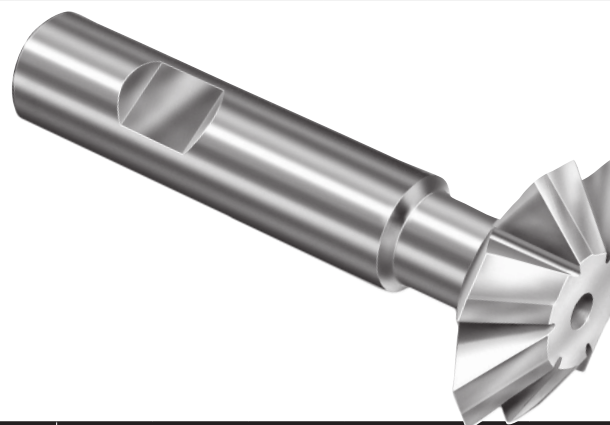
TYPE 3748 - 90° - FOR NON-FERROUS & CAST IRON

TYPE 3749 - 90° - FOR STEEL

Carbide tips brazed to hardened alloy steel bodies. Right hand cut. Straight shank with Weldon flats.

Angle tolerance: $\pm 1/4^\circ$.

Tool diameter tolerance: $\pm .015"/-.000"$; Corner radius: $.010" - .020"$.



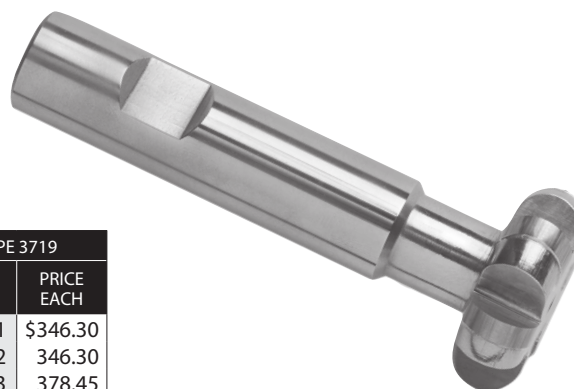
TOOL DIAMETER	SHANK DIAMETER	NO. OF TEETH	60° DOUBLE ANGLE						90° DOUBLE ANGLE					
			OVERALL LENGTH	CUTTER WIDTH	TYPE 3746 EDP NO.	PRICE EACH	TYPE 3747 EDP NO.	PRICE EACH	OVERALL LENGTH	CUTTER WIDTH	TYPE 3748 EDP NO.	PRICE EACH	TYPE 3749 EDP NO.	PRICE EACH
¾	⅜	6	2 ⅜	⅜	374624	\$252.35	374724	\$277.60	2 ⅜	¼	374824	\$252.35	374924	\$277.60
1	½	6	2 27/32	⅝	374632	298.00	374732	327.90	2 29/32	⅜	374832	298.00	374932	327.90
1 ⅜	⅝	6	3 7/32	7/16	374644	345.20	374744	379.80	3 ½	½	374844	345.20	374944	379.80
1 ½	⅝	6	3 ⅜	½	374648	362.60	374748	398.80	3 7/16	⅝	374848	362.60	374948	398.80
1 7/8	¾	6	3 25/32	⅝	374660	550.50	374760	605.65	3 25/32	⅝	374860	550.50	374960	605.65
2 ¼	7/8	6	4 5/32	¾	374672	745.20	374772	819.75	4 5/32	¾	374872	745.20	374972	819.75

CARBIDE TIPPED RADIUS CUTTERS

TYPE 3718 - FOR NON-FERROUS & CAST IRON

TYPE 3719 - FOR STEEL

Carbide tips brazed to hardened alloy steel bodies. Right hand cut. Convex radius. Straight shank with Weldon flats.

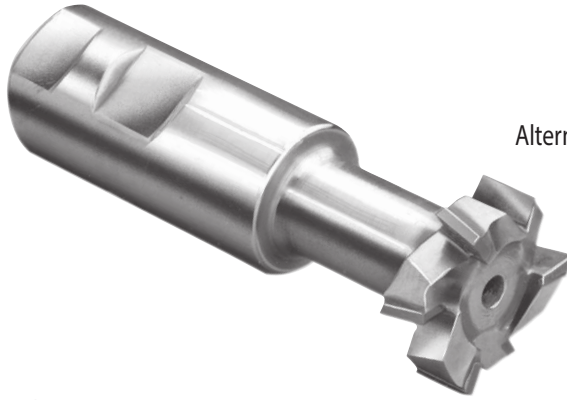


CUTTER RADIUS	TOOL DIAM.	SHANK DIAM.	NO. OF TEETH	CUTTER WIDTH	OVERALL LENGTH	TYPE 3718		TYPE 3719	
						EDP NO.	PRICE EACH	EDP NO.	PRICE EACH
1/32	3/4	1/2	6	1/16	3	371801	\$314.80	371901	\$346.30
1/16	3/4	1/2	6	1/8	3	371802	314.80	371902	346.30
3/32	7/8	1/2	6	3/16	3	371803	344.20	371903	378.45
1/8	1 1/4	3/4	6	1/4	3 1/2	371804	374.50	371904	412.10
5/32	1 5/16	3/4	6	5/16	3 1/2	371805	431.05	371905	474.10
3/16	1 3/8	3/4	6	3/8	3 1/2	371806	456.10	371906	501.75
1/4	1 1/2	3/4	6	1/2	4	371808	472.10	371908	519.45

Tool diameter tolerance: $\pm .005"/-.000"$.

Tool radius tolerance thru $1/8"$ radius: $\pm .001"/-.001"$
over $1/8"$ radius: $\pm .002"/-.002"$.

CARBIDE TIPPED T-SLOT CUTTERS



TYPE 3720 - FOR NON-FERROUS & CAST IRON

Carbide tips brazed to hardened alloy steel bodies.

Alternate 10° right and left axial rake. Straight shank with drive flats.
Used to machine cast iron and non-ferrous materials.

TYPE 3721 - FOR STEEL

Same as Type 3720 above, except carbide grade and geometry appropriate for cutting steel.

Tool diameter tolerance: +.000"/-.010".

BOLT DIAMETER	TOOL DIAMETER	SHANK DIAMETER	CUTTER WIDTH	NECK DIAMETER	UNDERCUT LENGTH	NO. OF TEETH	OVERALL LENGTH	TYPE 3720 EDP NO.	PRICE EACH	TYPE 3721 EDP NO.	PRICE EACH
1/4	9/16	1/2	15/64	17/64	35/64	6	2 19/32	372008	\$217.25	372108	\$234.65
5/16	21/32	1/2	17/64	21/64	39/64	6	2 11/16	372010	214.65	372110	231.80
3/8	25/32	3/4	21/64	13/32	55/64	6	3 1/4	372012	270.10	372112	291.80
1/2	31/32	3/4	25/64	17/32	63/64	6	3 7/16	372016	293.70	372116	317.15
5/8	1 1/4	1	31/64	21/32	1 9/64	6	3 15/16	372020	389.80	372120	421.10
3/4	1 15/32	1	5/8	25/32	1 1/2	6	4 7/16	372024	435.60	372124	470.40
1	1 27/32	1 1/4	53/64	1 1/32	1 43/64	8	4 13/16	372032	621.90	372132	671.70
1 1/4	2 7/32	1 1/4	1 3/32	1 7/32	1 31/32	8	5 3/8	372040	784.80	372140	847.65
1 1/2	2 21/32	1 1/4	1 11/32	1 17/32	2 1/8	8	5 29/32	372048	908.80	372148	981.50

CARBIDE TIPPED DOVETAIL CUTTERS

TYPE 3734 - 45° SINGLE ANGLE FOR NON-FERROUS & CAST IRON

TYPE 3735 - 45° SINGLE ANGLE FOR STEEL

Carbide tips brazed to hardened alloy steel bodies.

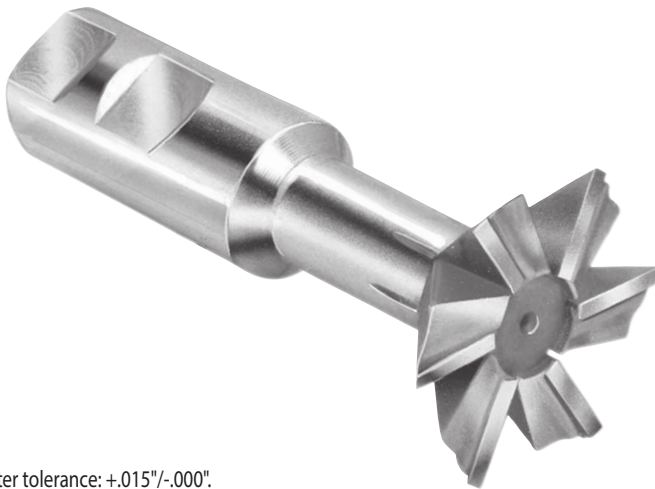
45° single angle with right hand cut.
Straight shank with drive flats.

TYPE 3736 - 60° SINGLE ANGLE FOR NON-FERROUS & CAST IRON

TYPE 3737 - 60° SINGLE ANGLE FOR STEEL

Carbide tips brazed to hardened alloy steel bodies.

60° single angle with right hand cut.
Straight shank with drive flats.



Tool diameter tolerance: +.015"/-.000".

Corner radius: .015" - .020".

TOOL DIAMETER	SHANK DIAMETER	NECK DIAMETER	NO. OF TEETH	OVERALL LENGTH	45° SINGLE ANGLE					60° SINGLE ANGLE				
					CUTTER WIDTH	TYPE 3734 EDP NO.	PRICE EACH	TYPE 3735 EDP NO.	PRICE EACH	CUTTER WIDTH	TYPE 3736 EDP NO.	PRICE EACH	TYPE 3737 EDP NO.	PRICE EACH
1/2	3/8	3/16	3	2 1/8	5/32	373416	\$217.60	373516	\$220.85	7/32	373616	\$217.60	373716	\$220.85
3/4	3/8	1/4	3	2 1/4	1/4	373424	234.75	373524	238.00	1/4	373624	234.75	373724	238.00
1	1/2	3/8	4	2 1/2	5/16	373432	251.05	373532	254.70	3/8	373632	251.05	373732	254.70
1 1/4	5/8	1/2	4	2 3/4	3/8	373440	285.45	373540	289.55	1/2	373640	285.45	373740	289.55
1 1/2	3/4	1/2	4	3 1/4	1/2	373448	333.45	373548	338.30	5/8	373648	333.45	373748	338.30
2	1	3/4	6	4 1/4	5/8	373464	535.85	373564	543.50	3/4	373664	535.85	373764	543.50
2 1/2	1 1/4	1	6	4 3/8	3/4	373480	724.70	373580	734.85	7/8	373680	724.70	373780	734.85
3	1 1/4	1	6	4 1/2	1	373496	854.50	373596	866.85	1 1/8	373696	854.50	373796	866.85

FEEDS & SPEEDS CHART FOR MILLS & SAWS - CARBIDE TIPPED

Feeds & speeds are a starting recommendation only. Factors such as machine, fixture and tooling rigidity, horsepower available, coolant application and others will affect the performance significantly. Please read machine operators instructions and use all safety shields and glasses before performing these operations.



RPM=SFPM*3.82/Cutter Diameter
IPM=IPT*RPM*#Teeth

CLASSIFICATION	MATERIAL	BRINELL	SURFACE FEET PER MINUTE (SFPM)	INCHES PER TOOTH (IPT)
NON-FERROUS (SOFT)	ALUMINUM ALLOY - WROUGHT	30-150*	1000-2000	.004-.008
	MAGNESIUM ALLOY	50-90*	750-1500	.004-.008
	LEAD ALLOY	10-20*	300-1000	.004-.008
	NON-METAL AND PLASTIC	-	1500-3000	.004-.008
	ZINC ALLOY - DIE CAST	80-100	750-1500	.005-.010
NON-FERROUS (HARD)	ALUMINUM BRONZE	40-175	200-600	.003-.006
	BRASS ALLOY - LEADED AND FREE CUTTING	10-100Rb	400-800	.004-.008
	NICKEL SILVER	10-100Rb	200-400	.003-.006
	COPPER ALLOY - TOUGH	40-200*	200-500	.004-.008
CAST IRON	DUCTILE CAST IRON - AUSTENITIC	120-275	75-150	.002-.004
	DUCTILE CAST IRON - FERRITIC	140-270	250-400	.003-.006
	DUCTILE CAST IRON - MARTENSITIC	270-400	200-300	.003-.006
	GRAY - PEARLITIC	220-320	120-300	.002-.004
	GRAY - FERRITIC	110-240	250-425	.003-.006
	MALLEABLE CAST IRON - MARTENSITIC	200-320	130-225	.002-.004
	MALLEABLE CAST IRON - FERRITIC & PEARLITIC	110-240	200-400	.003-.006
LOW CARBON STEELS	LOW AND MEDIUM CARBON STEEL - FREE MACHINING	100-250	250-500	.003-.006
	LOW AND MEDIUM CARBON STEEL - WROUGHT	100-375	200-400	.002-.004
MEDIUM STRENGTH STEELS	LOW AND MEDIUM CARBON ALLOY STEEL - FREE MACHINING	100-275	200-400	.002-.004
	LOW AND MEDIUM CARBON ALLOY STEEL	85-375	150-300	.002-.005
	STAINLESS STEEL - 400 SERIES	135-325	200-400	.003-.006
	STAINLESS STEEL - 400 SERIES FREE MACHINING	135-275	250-500	.003-.006
HIGH STRENGTH STEELS	HIGH STRENGTH STEEL - WROUGHT & TOOL STEEL	175-400	75-150	.002-.004
HIGH TEMP. ALLOYS	HIGH TEMP ALLOYS NICKEL & IRON BASE ALLOY	140-300	50-150	.002-.004
	STAINLESS STEEL - 300 SERIES	135-375	75-150	.002-.004
	STAINLESS STEEL - PH SERIES	150-440	75-150	.002-.004
	TITANIUM ALLOY	110-380	100-200	.002-.004

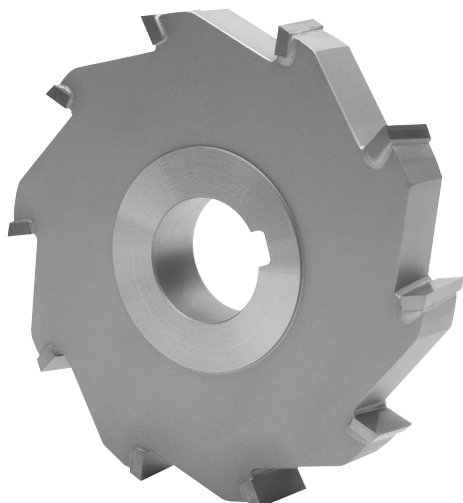
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CARBIDE TIPPED SIDE MILLING CUTTERS STAGGERED TOOTH

TYPE 3547 - GENERAL PURPOSE

Carbide tips brazed to alloy steel bodies.

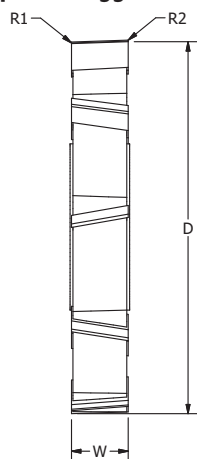
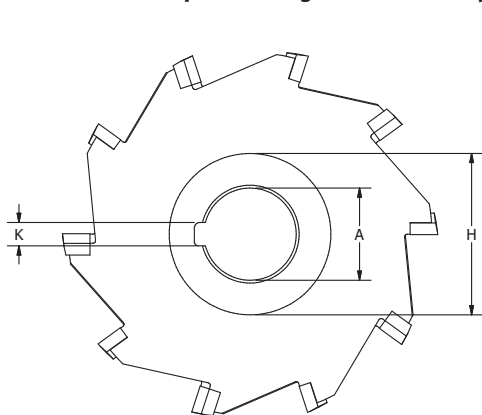
Positive radial rake and alternating right and left hand 5° axial rake make this an excellent choice for general purpose milling including aluminum, cast iron, composites, stainless steel, steel, and titanium up to 363 Brinell (39Rc). Staggered tooth design produces a free cutting tool and promotes chip evacuation. Carbide extends across the entire length of each tooth.



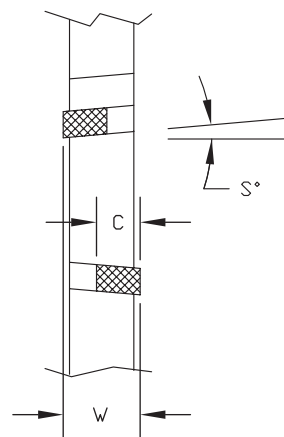
ALL TYPES:
Tool diameter tolerance: $+\frac{1}{16}"/-0.000"$
Face width tolerance: $+.001"/-0.000"$
Arbor hole tolerance: $+.001"/-0.000"$
Sharpened on all 3 cutting edges.

TOOL DIAM.	WIDTH		NO. OF TEETH	TYPE 3547 FOR STAINLESS STEEL		
	FRAC.	DEC.		1"ARBOR EDP NO.	1 1/4"ARBOR EDP NO.	PRICE EACH
3	3/16	.1875	8	354710	-	\$607.75
3	1/4	.2500	8	354712	-	622.25
3	5/16	.3125	8	354714	-	627.75
3	3/8	.3750	8	354716	-	630.30
3	1/2	.5000	8	354718	-	649.90
3	5/8	.6250	8	354720	-	695.75
4	3/16	.1875	10	354722	-	660.30
4	1/4	.2500	10	354724	-	668.55
4	5/16	.3125	10	354726	-	676.60
4	3/8	.3750	10	354728	-	684.80
4	1/2	.5000	10	354730	-	694.40
4	5/8	.6250	10	354732	-	707.35
4	3/4	.7500	10	354734	-	715.35
6	1/4	.2500	14	-	354750	858.40
6	5/16	.3125	14	-	354752	864.90
6	3/8	.3750	14	-	354754	866.10
6	1/2	.5000	14	-	354756	877.45
6	5/8	.6250	14	-	354758	882.40
6	3/4	.7500	14	-	354760	911.20
6	1	1.0000	14	-	354762	975.60

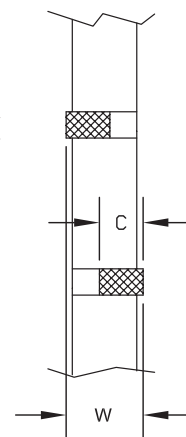
For a material specific design and/or other types of staggered tooth cutters use the form and diagrams below for a quote.



Herringbone Stagger with Full Width Carbide



Herringbone Stagger with Partial Width Carbide



Straight Stagger with Partial Width Carbide

Name _____ Phone _____
Company _____ Fax _____
Full Address _____

SPECIAL CARBIDE TIPPED STAGGERED TOOTH CUTTER ORDERING INFORMATION

D= _____ Cutter Diameter R1= _____ Radius/Chamfer (Left Side Top Coming) _____ Material Cutting
W= _____ Cutter Width R2= _____ Radius/Chamfer (Right Side Top Coming) _____ Quantities
A= _____ Arbor Hole Diameter C= _____ Carbide Length (If Partial Width Carbide) ☐ Herringbone Stagger - Full Width Carbide
K= _____ Keyway Size S= _____ Axial Rake Angle ☐ Herringbone Stagger - Partial Width Carbide
H= _____ Hub Diameter N= _____ # of Teeth ☐ Straight Stagger - Partial Width Carbide

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NOTE: Standard tool tolerances as stated in this catalog will be applied unless another tolerance is specified.

Made in U.S.A.

CARBIDE TIPPED SLITTING SAWS - COARSE TOOTH

TYPE 3550 - FOR NON-FERROUS

Carbide tips brazed to alloy steel bodies.

For machining aluminum, magnesium, zinc, brass, bronze, plastics and non-metals.

TYPE 3552 - FOR CAST IRON

Carbide tips brazed to alloy steel bodies.

For machining most materials, especially cast iron and malleable iron.

TYPE 3554 - FOR STEEL

Carbide tips brazed to alloy steel bodies.

Steel cutting grade of carbide for machining most steels.

TYPE 3558 - FOR STAINLESS STEEL

Carbide tips brazed to alloy steel bodies.

High number of teeth for machining of stainless steel and related alloy steels. AISI type 200 thru 350 stainless steels.



ALL TYPES (page 16 & 17):
Tool diameter tolerance: $\pm \frac{1}{16}''$ / $\pm .000''$.
Face width tolerance: $\pm .001''$ / $\pm .000''$.
Arbor hole tolerance: $\pm .001''$ / $\pm .000''$.
Sharpened on all 3 cutting edges.

TOOL DIAM.	WIDTH		ARBOR HOLE	TYPE 3550 FOR NON-FERROUS			TYPE 3552 FOR CAST IRON			TYPE 3554 FOR STEEL			TYPE 3558 FOR STAINLESS STEEL		
	FRAC.	DECIMAL		NO. OF TEETH	EDP NO.	PRICE EACH	NO. OF TEETH	EDP NO.	PRICE EACH	NO. OF TEETH	EDP NO.	PRICE EACH	NO. OF TEETH	EDP NO.	PRICE EACH
3	$\frac{3}{32}$	.0938	1	6	355032	\$243.35	6	355232	\$280.10	8	355432	\$277.70	8	355832	\$260.20
3	$\frac{1}{8}$	.1250	1	6	355034	250.70	6	355234	296.60	8	355434	310.80	8	355834	270.10
3	$\frac{3}{16}$	.1875	1	6	355036	260.60	6	355236	313.75	8	355436	313.75	8	355836	280.55
3	$\frac{1}{4}$	.2500	1	6	355037	177.20	6	355237	257.20	8	355437	257.20	8	355837	308.65
3	$\frac{5}{16}$	.3125	1	6	355031	186.20	6	355231	257.20	8	355431	257.20	8	355831	308.65
3	$\frac{3}{8}$	.3750	1	6	355038	189.85	6	355238	261.35	8	355438	261.35	8	355838	313.75
4	$\frac{3}{32}$	.0938	1	6	355042	298.75	8	355242	359.10	8	355442	359.10	10	355842	374.35
4	$\frac{1}{8}$	.1250	1	6	355044	307.60	8	355244	363.95	8	355444	363.95	10	355844	379.05
4	$\frac{3}{16}$	.1875	1	6	355046	312.25	8	355246	392.15	8	355446	392.15	10	355846	384.25
4	$\frac{1}{4}$	.2500	1	6	355047	227.80	8	355247	333.00	8	355447	333.00	10	355847	399.85
4	$\frac{5}{16}$	.3125	1	6	355041	234.20	8	355241	345.95	8	355441	345.95	10	355841	414.90
4	$\frac{3}{8}$	.3750	1	6	355048	240.40	8	355248	358.50	8	355448	358.50	10	355848	430.15
4	$\frac{3}{8}$	.3750	1 1/4	6	355049	240.40	8	355249	358.50	8	355449	358.50	10	355849	430.15
5	$\frac{3}{32}$	.0938	1	8	355052	323.25	10	355252	482.10	10	355452	482.10	12	355852	508.85
5	$\frac{1}{8}$	.1250	1	8	355054	323.25	10	355254	518.55	10	355454	518.55	12	355854	519.45
5	$\frac{3}{16}$	.1875	1	-	-	-	10	355256	583.80	10	355456	583.80	12	355856	540.15
6	$\frac{1}{8}$	.1250	1 1/4	8	355063	440.20	12	355263	632.85	12	355463	632.85	14	355863	607.65
6	$\frac{3}{16}$	.1875	1 1/4	8	355065	580.15	12	355265	653.70	12	355465	653.70	14	355865	623.30
6	$\frac{1}{4}$	.2500	1 1/4	8	355067	600.95	12	355267	667.40	12	355467	667.40	14	355867	633.55
8	$\frac{1}{8}$	.1250	1 1/4	10	355083	562.75	-	-	-	-	-	-	-	-	-
8	$\frac{3}{16}$	.1875	1 1/4	-	-	-	16	355285	899.65	16	355485	899.65	-	-	-
8	$\frac{1}{4}$	.2500	1 1/4	-	-	-	16	355287	934.05	16	355487	934.05	-	-	-

CARBIDE TIPPED SLITTING SAWS - STANDARD TOOTH



TYPE 3551 - FOR NON-FERROUS

Similar to our Type 3550
Except designed with more teeth for better finishes.

TYPE 3553 - FOR CAST IRON

Similar to our Type 3552
Except designed with more teeth for better finishes.

TYPE 3556 - FOR STEEL

Similar to our Type 3554
Except designed with more teeth for better finishes.

TYPE 3559 - FOR STAINLESS STEEL

Similar to our Type 3558
Except designed with more teeth for better finishes.

TOOL DIAM.	WIDTH		TYPE 3551 FOR NON-FERROUS				TYPE 3553 FOR CAST IRON				TYPE 3556 FOR STEEL				TYPE 3559 FOR STAINLESS STEEL			
	FRAC.	DEC.	NO. OF TEETH	1"ARBOR EDP NO.	1 1/4"ARBOR EDP NO.	PRICE EACH	NO. OF TEETH	1"ARBOR EDP NO.	1 1/4"ARBOR EDP NO.	PRICE EACH	NO. OF TEETH	1"ARBOR EDP NO.	1 1/4"ARBOR EDP NO.	PRICE EACH	NO. OF TEETH	1"ARBOR EDP NO.	1 1/4"ARBOR EDP NO.	PRICE EACH
3	1/16	.0625	12	355198	-	\$383.45	12	355398	-	\$383.45	16	355698	-	\$458.45	12	355998	-	\$431.30
3	3/64	.0781	12	355100	-	453.45	12	355300	-	453.45	16	355600	-	554.35	12	355900	-	483.10
3	1/32	.0938	12	355102	-	383.45	12	355302	-	383.45	16	355602	-	458.45	12	355902	-	431.30
3	7/64	.1094	12	355104	-	382.00	12	355304	-	382.00	16	355604	-	423.15	12	355904	-	411.65
3	1/8	.1250	12	355106	355107	308.30	12	355306	355307	308.30	16	355606	-	383.35	12	355906	355907	393.20
3	3/32	.1562	12	355108	-	367.40	12	355308	-	367.40	16	355608	-	402.65	12	355908	-	402.65
3	1/16	.1875	12	355109	-	328.55	12	355309	-	328.55	16	355609	-	422.05	12	355909	-	412.30
3	7/32	.2188	12	355110	-	380.10	12	355310	-	380.10	16	355610	-	441.45	12	355910	-	425.40
3	1/4	.2500	12	355111	-	399.70	12	355311	-	399.70	16	355611	-	460.95	12	355911	-	438.20
3	3/16	.3125	12	355112	-	438.20	12	355312	-	438.20	16	355612	-	505.30	12	355912	-	480.05
3	3/8	.3750	12	355113	-	476.90	12	355313	-	476.90	16	355613	-	549.90	12	355913	-	525.10
3	7/16	.4375	-	-	-	-	-	-	-	-	16	355614	-	611.05	12	355914	-	570.65
3	1/2	.5000	-	-	-	-	-	-	-	-	16	355615	-	679.05	12	355915	-	615.85
4	1/16	.0625	14	355116	355117	446.50	14	355316	-	446.50	20	355616	-	554.35	14	355916	355917	490.50
4	3/64	.0781	14	355118	355119	527.40	14	355318	355319	527.40	20	355618	355619	606.60	14	355918	355919	562.00
4	1/32	.0938	14	355120	355121	446.50	14	355320	355321	446.50	20	355620	355621	554.35	14	355920	355921	490.50
4	7/64	.1094	14	355122	355123	455.95	14	355322	355323	455.95	20	355622	355623	524.30	14	355922	355923	581.50
4	1/8	.1250	14	355124	355125	402.65	14	355324	355325	402.65	20	355624	355625	489.75	14	355924	355925	489.75
4	3/32	.1562	14	355126	355127	457.40	14	355326	355327	457.40	20	355626	355627	526.20	14	355926	355927	502.65
4	1/16	.1875	14	355128	355129	428.65	14	355328	355329	428.65	20	355628	355629	528.45	14	355928	355929	518.60
4	7/32	.2188	14	355130	355131	486.50	14	355330	355331	486.50	20	355630	355631	559.50	14	355930	355931	535.00
4	1/4	.2500	14	355132	355133	495.95	14	355332	355333	495.95	20	355632	355633	566.75	14	355932	355933	547.80
4	3/16	.3125	14	355134	355135	535.00	14	355334	355335	535.00	20	355634	355635	615.00	14	355934	355935	586.45
4	3/8	.3750	14	355136	355137	573.50	14	355336	355337	573.50	20	355636	355637	659.55	14	355936	355937	631.40
4	7/16	.4375	-	-	-	-	-	-	-	-	20	355638	-	732.80	14	355938	-	676.90
4	1/2	.5000	-	-	-	-	-	-	-	-	20	355640	-	814.35	14	355940	-	722.30
5	3/64	.0781	16	355142	355143	653.35	16	355342	355343	653.35	24	355642	355643	751.15	16	355942	355943	692.50
5	1/32	.0938	16	355144	355145	539.05	16	355344	355345	539.05	24	355644	355645	756.45	16	355944	355945	593.90
5	7/64	.1094	16	355146	355147	613.65	16	355346	355347	613.65	24	355646	355647	705.80	16	355946	355947	653.35
5	1/8	.1250	16	355148	355149	497.90	16	355348	355349	497.90	24	355648	355649	612.00	16	355948	355949	576.75
5	3/32	.1562	16	355150	355151	544.45	16	355350	355351	544.45	24	355650	355651	626.05	16	355950	355951	595.80
5	1/16	.1875	16	355152	355153	557.65	16	355352	355353	557.65	24	355652	355653	670.10	16	355952	355953	628.25
5	7/32	.2188	16	355154	355155	599.20	16	355354	355355	599.20	24	355654	355655	689.15	16	355954	355955	660.50
5	1/4	.2500	16	355156	355157	625.05	16	355356	355357	625.05	24	355656	355657	718.80	16	355956	355957	692.55
5	3/16	.3125	16	355158	355159	679.65	16	355358	355359	679.65	24	355658	355659	781.80	16	355958	355959	747.40
5	3/8	.3750	16	355160	355161	734.55	16	355360	355361	734.55	24	355660	355661	844.60	16	355960	355961	805.45
5	7/16	.4375	-	-	-	-	-	-	-	-	24	355662	-	938.55	16	355962	-	850.80
5	1/2	.5000	-	-	-	-	-	-	-	-	24	355664	-	1042.85	16	355964	-	896.15
6	3/64	.0781	18	355166	355167	734.45	18	355366	355367	734.45	28	355666	355667	844.55	18	355966	355967	778.75
6	1/32	.0938	18	355168	355169	654.10	18	355368	355369	654.10	28	355668	355669	773.70	18	355968	355969	717.15
6	7/64	.1094	18	355170	355171	736.95	18	355370	355371	736.95	28	355670	355671	847.50	18	355970	355971	781.40
6	1/8	.1250	18	355172	355173	623.40	18	355372	355373	623.40	28	355672	355673	811.80	18	355972	355973	737.70
6	3/32	.1562	18	355174	355175	705.35	18	355374	355375	705.35	28	355674	355675	811.40	18	355974	355975	769.90
6	1/16	.1875	18	355176	355177	682.95	18	355376	355377	682.95	28	355676	355677	870.45	18	355976	355977	802.05
6	7/32	.2188	18	355178	355179	769.90	18	355378	355379	769.90	28	355678	355679	885.45	18	355978	355979	834.40
6	1/4	.2500	18	355180	355181	802.20	18	355380	355381	802.20	28	355680	355681	946.45	18	355980	355981	878.85
6	3/16	.3125	18	355182	355183	834.55	18	355382	355383	834.55	28	355682	355683	959.65	18	355982	355983	918.15
6	3/8	.3750	18	355184	355185	866.55	18	355384	355385	866.55	28	355684	355685	996.55	18	355984	355985	953.45
6	7/16	.4375	-	-	-	-	-	-	-	-	28	355690	-	1107.15	18	355990	-	998.85
6	1/2	.5000	-	-	-	-	-	-	-	-	28	355692	-	1230.25	18	355992	-	1044.25
8	1/8	.1250	24	-	355186	1035.05	24	-	355386	1035.05	24	-	355686	1094.15	24	-	355986	1094.15
8	3/32	.1562	24	-	355187	1047.35	24	-	355387	1047.35	24	-	355687	1106.55	24	-	355987	1106.55
8	1/16	.1875	24	-	355188	1059.70	24	-	355388	1059.70	24	-	355688	1118.80	24	-	355988	1118.80
8	1/4	.2500	24	-	355189	1123.55	24	-	355389	1123.55	24	-	355689	1182.85	24	-	355989	1182.85

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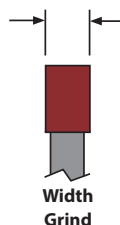
3" CARBIDE TIPPED MILLING CUTTERS GENERAL PURPOSE

TYPE 3559 - GENERAL PURPOSE



Width grinds between .0600" and .5312"

TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH - FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
3	.0600-.0703	.0555	355998D	\$530.20	\$491.85	\$485.30	\$481.80	\$479.75	\$431.30
3	.0704-.0859	.0711	355900D	582.10	543.80	537.15	533.65	531.45	483.10
3	.0860-.1015	.0867	355902D	530.20	491.85	485.30	481.80	479.75	431.30
3	.1016-.1171	.1024	355904D	510.60	472.40	465.70	462.20	460.10	411.65
3	.1172-.1406	.1180	355906D	492.15	453.85	447.10	443.60	441.60	393.20
3	.1407-.1718	.1562	355908D	501.70	463.50	456.80	453.30	451.25	402.65
3	.1719-.2031	.1875	355909D	511.35	472.95	466.25	462.80	460.80	412.30
3	.2032-.2343	.2188	355910D	524.30	486.20	479.45	475.90	473.85	425.40
3	.2344-.2812	.2500	355911D	537.35	499.10	492.25	488.75	486.80	438.20
3	.2813-.3437	.3125	355912D	579.10	540.85	534.10	530.70	528.65	480.05
3	.3438-.4062	.3750	355913D	624.00	585.75	579.10	575.45	573.45	525.10
3	.4063-.4687	.4375	355914D	669.45	631.20	624.55	621.05	618.95	570.65
3	.4688-.5312	.5000	355915D	715.00	676.55	669.90	666.50	664.50	615.85



Cutter Notes (All cutters on page)

- 12 Teeth
- C-2(m) Carbide
- 5° Positive Radial Rake
- Width Tolerance: +.001"/-.000"
- OD tolerance: +.0313"/-.000"
- 1" Arbor hole +.001"/-.000"
- ANSI standard keyway dimensions
- Add 5% to grind the hub width thinner
- Add 5% to match OD's on cutter sets within .001"
- Not designed to be used on heat treated materials greater than 363 Brinell (39Rc)

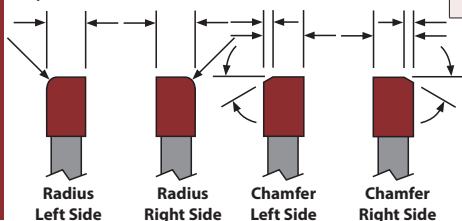
Corner Radius or Chamfer on ONE Side

Radius Notes

- Maximum radius on one side is .2656"
- Full radius and maximum radius on both sides is ½ the width of the cutter
- A non-tangent radii must be quoted

Chamfer Notes

- Chamfer Angles can range from 0° to 45°
- Chamfer is measured off of the OD
- Maximum chamfer is the LESSER of ½ the width of the cutter OR .2656" length of angle when measured across the OD
- Chamfer Angle Tolerance: $\pm \frac{1}{2}^\circ$
- Chamfers greater than 45° must be quoted



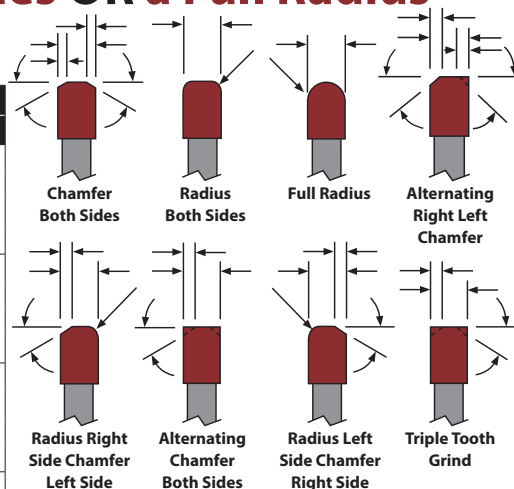
TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED WITH RADIUS OR CHAMFER					
				1 PC	2 PC	3 PC	4 PC	5 PC	6 PC
3	.0600-.0703	.0555	355998R1	\$556.10	\$499.50	\$491.85	\$488.15	\$485.90	\$484.65
3	.0704-.0859	.0711	355900R1	608.05	551.35	543.80	539.95	537.60	536.45
3	.0860-.1015	.0867	355902R1	556.10	499.50	491.85	488.15	485.90	484.65
3	.1016-.1171	.1024	355904R1	536.60	479.90	472.40	468.55	466.15	464.95
3	.1172-.1406	.1180	355906R1	518.10	461.30	453.85	449.95	447.70	446.35
3	.1407-.1718	.1562	355908R1	527.55	470.90	463.50	459.50	457.25	455.95
3	.1719-.2031	.1875	355909R1	537.30	480.45	472.95	469.15	467.00	465.60
3	.2032-.2343	.2188	355910R1	550.15	493.75	486.20	482.10	479.90	478.55
3	.2344-.2812	.2500	355911R1	563.15	506.45	499.10	495.10	492.85	491.55
3	.2813-.3437	.3125	355912R1	604.95	548.40	540.85	536.90	534.70	533.30
3	.3438-.4062	.3750	355913R1	650.10	593.30	585.75	581.90	579.65	578.40
3	.4063-.4687	.4375	355914R1	695.35	638.75	631.20	627.35	625.05	623.80
3	.4688-.5312	.5000	355915R1	740.80	684.10	676.55	672.85	670.35	669.20

Specify side for radius or chamfer

Corner Radius or Chamfer on BOTH Sides OR a Full Radius

- Alternating Chamfers add 5%

TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED WITH RADIUS, CHAMFERS, OR COMBINATION					
				1 PC	2 PC	3 PC	4 PC	5 PC	6 PC
3	.0600-.0703	.0555	355998R2	\$569.95	\$507.10	\$498.80	\$494.35	\$491.80	\$490.50
3	.0704-.0859	.0711	355900R2	621.90	558.90	550.65	546.30	543.55	542.15
3	.0860-.1015	.0867	355902R2	569.95	507.10	498.80	494.35	491.80	490.50
3	.1016-.1171	.1024	355904R2	550.60	487.45	479.25	474.90	472.25	470.85
3	.1172-.1406	.1180	355906R2	531.90	469.00	460.65	456.30	453.70	452.30
3	.1407-.1718	.1562	355908R2	541.50	478.45	470.25	465.90	463.35	461.85
3	.1719-.2031	.1875	355909R2	550.95	488.15	479.85	475.45	472.90	471.50
3	.2032-.2343	.2188	355910R2	564.30	501.15	492.90	488.60	485.95	484.65
3	.2344-.2812	.2500	355911R2	577.00	514.00	505.75	501.40	498.80	497.45
3	.2813-.3437	.3125	355912R2	618.85	555.90	547.50	543.25	540.75	539.35
3	.3438-.4062	.3750	355913R2	663.90	600.95	592.55	588.25	585.60	584.30
3	.4063-.4687	.4375	355914R2	709.20	646.40	638.05	633.60	631.10	629.65
3	.4688-.5312	.5000	355915R2	754.65	691.90	683.40	679.10	676.45	675.10



4" CARBIDE TIPPED MILLING CUTTERS GENERAL PURPOSE

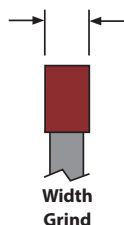
TYPE 3559 - GENERAL PURPOSE



Width grinds between .0600" and .5312"

Cutter Notes (All cutters on page)

- 14 Teeth
- C-2(m) Carbide
- 5° Positive Radial Rake
- Width Tolerance: +.001"/-.000"
- OD tolerance: +.0313"/-.000"
- 1" Arbor hole +.001"/-.000"
- ANSI standard keyway dimensions
- Add 5% to grind the hub width thinner
- Add 5% to match OD's on cutter sets within .001"
- Not designed to be used on heat treated materials greater than 363 Brinell (39Rc)



TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
4	.0600 - .0703	.0545	355916D	\$607.05	\$563.15	\$555.15	\$550.95	\$548.50	\$490.55
4	.0704 - .0859	.0701	355918D	678.65	634.60	626.55	622.40	620.05	562.00
4	.0860 - .1015	.0858	355920D	607.05	563.15	555.15	550.95	548.50	490.55
4	.1016 - .1171	.1014	355922D	698.25	654.25	646.25	642.20	639.60	581.50
4	.1172 - .1406	.1170	355924D	606.45	562.30	554.20	550.05	547.70	489.75
4	.1407 - .1718	.1562	355926D	619.25	575.25	567.25	563.15	560.55	502.65
4	.1719 - .2031	.1875	355928D	635.20	591.20	583.20	579.15	576.60	518.60
4	.2032 - .2343	.2188	355930D	651.60	607.60	599.50	595.45	592.80	534.95
4	.2344 - .2812	.2500	355932D	664.50	620.35	612.35	608.20	605.65	547.80
4	.2813 - .3437	.3125	355934D	702.95	658.95	650.85	646.75	644.20	586.45
4	.3438 - .4062	.3750	355936D	748.15	704.15	696.10	691.95	689.30	631.40
4	.4063 - .4687	.4375	355938D	793.50	749.55	741.40	737.35	734.70	676.90
4	.4688 - .5312	.5000	355940D	839.00	794.80	786.85	782.70	780.20	722.30

Corner Radius or Chamfer on ONE Side

TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
4	.0600 - .0703	.0545	355916R1	\$635.10	\$571.40	\$562.55	\$557.80	\$555.15	\$553.60
4	.0704 - .0859	.0701	355918R1	706.55	642.85	634.00	629.20	626.55	625.05
4	.0860 - .1015	.0858	355920R1	635.10	571.40	562.55	557.80	555.15	553.60
4	.1016 - .1171	.1014	355922R1	726.35	662.50	653.55	649.05	646.25	644.70
4	.1172 - .1406	.1170	355924R1	634.45	570.65	561.70	557.00	554.20	552.80
4	.1407 - .1718	.1562	355926R1	647.20	583.35	574.55	569.95	567.25	565.65
4	.1719 - .2031	.1875	355928R1	663.30	599.50	590.60	585.90	583.20	581.60
4	.2032 - .2343	.2188	355930R1	679.65	615.75	606.85	602.30	599.50	597.90
4	.2344 - .2812	.2500	355932R1	692.40	628.55	619.60	615.00	612.35	610.85
4	.2813 - .3437	.3125	355934R1	731.00	667.10	658.25	653.65	650.85	649.25
4	.3438 - .4062	.3750	355936R1	776.05	712.25	703.30	698.70	696.10	694.45
4	.4063 - .4687	.4375	355938R1	821.55	757.80	748.75	744.20	741.40	739.90
4	.4688 - .5312	.5000	355940R1	867.00	803.25	794.35	789.65	786.85	785.40

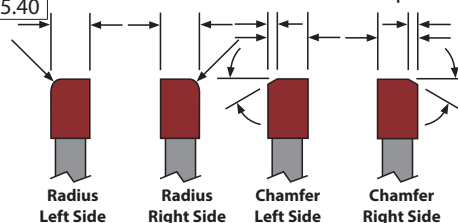
Radius Notes

- Maximum radius on one side is .2656"
- Full radius and maximum radius on both sides is ½ the width of the cutter
- A non-tangent radii must be quoted

Chamfer Notes

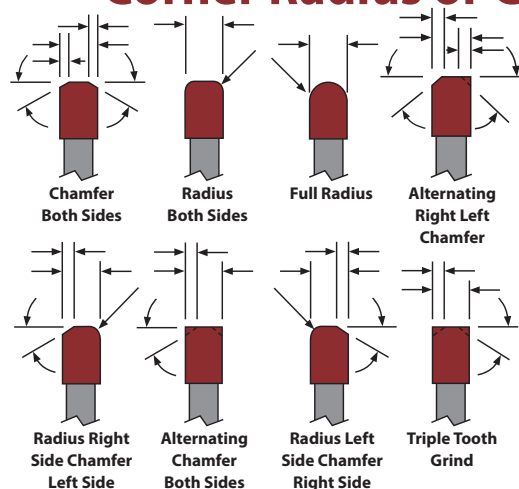
- Chamfer Angles can range from 0° to 45°
- Chamfer is measured off of the OD
- Maximum chamfer is the LESSER of ½ the width of the cutter OR .2656" length of angle when measured across the OD
- Chamfer Angle Tolerance: +/- ½°
- Chamfers greater than 45° must be quoted

Specify side for radius or chamfer



Corner Radius or Chamfer on BOTH Sides OR a Full Radius

- Alternating Chamfers add 5%



TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
4	.0600 - .0703	.0545	355916R2	\$650.10	\$579.70	\$569.80	\$564.75	\$561.70	\$560.05
4	.0704 - .0859	.0701	355918R2	721.30	651.05	641.25	636.15	633.00	631.40
4	.0860 - .1015	.0858	355920R2	650.10	579.70	569.80	564.75	561.70	560.05
4	.1016 - .1171	.1014	355922R2	741.05	670.80	660.80	655.90	652.75	651.05
4	.1172 - .1406	.1170	355924R2	649.10	578.80	568.95	563.90	560.90	559.15
4	.1407 - .1718	.1562	355926R2	662.05	591.80	581.80	576.85	573.60	572.00
4	.1719 - .2031	.1875	355928R2	678.15	607.75	597.90	592.80	589.70	588.15
4	.2032 - .2343	.2188	355930R2	694.40	624.00	614.25	609.20	606.15	604.50
4	.2344 - .2812	.2500	355932R2	707.10	636.85	627.05	621.90	618.85	617.10
4	.2813 - .3437	.3125	355934R2	745.70	675.40	665.60	660.50	657.35	655.85
4	.3438 - .4062	.3750	355936R2	790.95	720.55	710.70	705.65	702.65	700.90
4	.4063 - .4687	.4375	355938R2	836.30	766.00	756.25	751.00	747.90	746.45
4	.4688 - .5312	.5000	355940R2	881.70	811.50	801.50	796.45	793.35	791.60

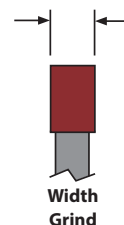
5" CARBIDE TIPPED MILLING CUTTERS GENERAL PURPOSE

TYPE 3559 - GENERAL PURPOSE



Width grinds between .0704" and .5312"

TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
5	.0704-.0859	.0691	355942D	\$811.80	\$766.65	\$758.40	\$754.35	\$751.85	\$692.50
5	.0860-.1015	.0848	355944D	713.30	668.25	660.15	655.90	653.40	593.90
5	.1016-.1171	.1004	355946D	772.40	727.50	719.20	715.10	712.55	653.35
5	.1172-.1406	.1160	355948D	696.10	650.85	642.85	638.50	636.10	576.75
5	.1407-.1718	.1562	355950D	715.20	670.10	662.05	657.65	655.15	595.80
5	.1719-.2031	.1875	355952D	747.55	702.55	694.40	690.25	687.60	628.25
5	.2032-.2343	.2188	355954D	779.90	734.70	726.60	722.35	719.80	660.50
5	.2344-.2812	.2500	355956D	811.85	766.75	758.70	754.50	752.00	692.55
5	.2813-.3437	.3125	355958D	866.55	821.55	813.40	809.15	806.65	747.40
5	.3438-.4062	.3750	355960D	924.60	879.55	871.50	867.20	864.65	805.45
5	.4063-.4687	.4375	355962D	970.00	925.10	917.05	912.70	910.05	850.80
5	.4688-.5312	.5000	355964D	1015.55	970.50	962.30	958.15	955.60	896.15



Cutter Notes (All cutters on page)

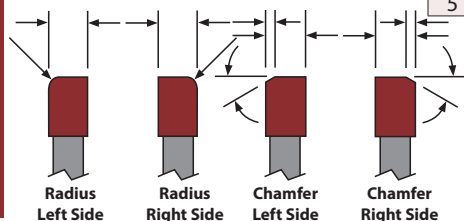
- 16 Teeth
- C-2(m) Carbide
- 5° Positive Radial Rake
- Width Tolerance: +.001"/-.000"
- OD tolerance: +.0313"/-.000"
- 1" Arbor hole +.001"/-.000"
- ANSI standard keyway dimensions
- Add 5% to grind the hub width thinner
- Add 5% to match OD's on cutter sets within .001"
- Not designed to be used on heat treated materials greater than 363 Brinell (39Rc)

Radius Notes

- Maximum radius on one side is .2656"
- Full radius and maximum radius on both sides is 1/2 the width of the cutter
- A non-tangent radii must be quoted

Chamfer Notes

- Chamfer Angles can range from 0° to 45°
- Chamfer is measured off of the OD
- Maximum chamfer is the LESSER of 1/3 the width of the cutter OR .2656" length of angle when measured across the OD
- Chamfer Angle Tolerance: +/- 1/2°
- Chamfers greater than 45° must be quoted



Corner Radius or Chamfer on ONE Side

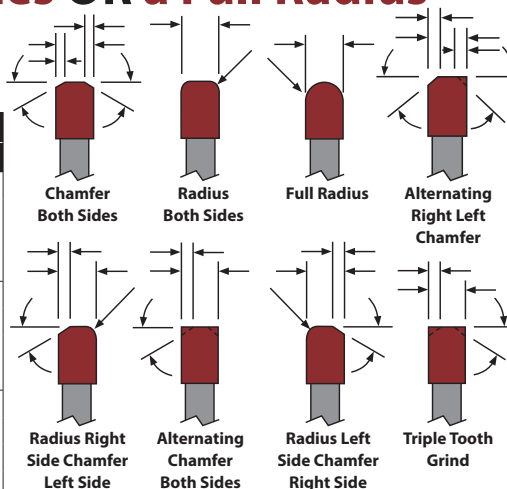
TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
5	.0704-.0859	.0691	355942R1	\$840.05	\$774.90	\$765.90	\$761.05	\$758.20	\$756.75
5	.0860-.1015	.0848	355944R1	741.70	676.45	667.40	662.80	659.85	658.25
5	.1016-.1171	.1004	355946R1	800.85	735.75	726.60	721.90	718.95	717.50
5	.1172-.1406	.1160	355948R1	724.30	659.15	650.25	645.45	642.60	641.15
5	.1407-.1718	.1562	355950R1	743.55	678.30	669.30	664.70	661.65	660.30
5	.1719-.2031	.1875	355952R1	775.80	710.80	701.65	696.95	694.15	692.55
5	.2032-.2343	.2188	355954R1	808.10	743.00	733.90	729.30	726.35	724.85
5	.2344-.2812	.2500	355956R1	840.20	775.30	766.00	761.35	758.40	756.90
5	.2813-.3437	.3125	355958R1	894.95	829.70	820.70	815.95	813.25	811.65
5	.3438-.4062	.3750	355960R1	953.00	887.85	878.70	874.00	871.35	869.80
5	.4063-.4687	.4375	355962R1	998.45	933.35	924.20	919.50	916.65	915.15
5	.4688-.5312	.5000	355964R1	1043.80	978.80	969.70	965.10	962.00	960.55

Specify side for radius or chamfer

Corner Radius or Chamfer on BOTH Sides OR a Full Radius

- Alternating Chamfers add 5%

TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
5	.0704-.0859	.0691	355942R2	\$869.65	\$791.45	\$780.50	\$774.80	\$771.40	\$769.70
5	.0860-.1015	.0848	355944R2	771.20	692.95	682.05	676.40	673.00	671.25
5	.1016-.1171	.1004	355946R2	830.30	752.15	741.25	735.60	732.25	730.35
5	.1172-.1406	.1160	355948R2	753.90	675.70	664.85	659.10	655.85	653.95
5	.1407-.1718	.1562	355950R2	773.00	694.85	683.95	678.30	674.95	673.00
5	.1719-.2031	.1875	355952R2	805.45	727.25	716.25	710.70	707.30	705.50
5	.2032-.2343	.2188	355954R2	837.50	759.65	748.60	743.00	739.60	737.80
5	.2344-.2812	.2500	355956R2	869.80	791.55	780.55	775.05	771.80	769.90
5	.2813-.3437	.3125	355958R2	924.35	846.25	835.45	829.65	826.25	824.50
5	.3438-.4062	.3750	355960R2	982.55	904.35	893.50	887.75	884.35	882.70
5	.4063-.4687	.4375	355962R2	1028.10	949.75	938.80	933.30	929.90	928.05
5	.4688-.5312	.5000	355964R2	1073.35	995.25	984.40	978.80	975.25	973.45



6" CARBIDE TIPPED MILLING CUTTERS GENERAL PURPOSE

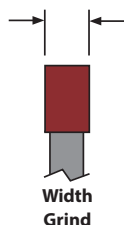


TYPE 3559 - GENERAL PURPOSE

Width grinds between .0704" and .5312"

Cutter Notes (All cutters on page)

- 18 Teeth
- C-2(m) Carbide
- 5° Positive Radial Rake
- Width Tolerance: +.001"/-.000"
- OD tolerance: +.0313"/-.000"
- 1" Arbor hole +.001"/-.000"
- ANSI standard keyway dimensions
- Add 5% to grind the hub width thinner
- Add 5% to match OD's on cutter sets within .001"
- Not designed to be used on heat treated materials greater than 363 Brinell (39Rc)



TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
6	.0704 - .0859	.0681	355966D	903.35	856.25	847.80	843.40	840.60	778.75
6	.0860 - .1015	.0838	355968D	841.65	794.65	786.10	781.80	779.00	717.15
6	.1016 - .1171	.0994	355970D	906.00	859.05	850.35	845.95	843.40	781.40
6	.1172 - .1406	.1150	355972D	862.05	815.10	806.65	802.20	799.55	737.70
6	.1407 - .1718	.1562	355974D	894.25	847.50	838.95	834.45	831.85	769.90
6	.1719 - .2031	.1875	355976D	926.65	879.55	871.30	866.55	863.90	802.05
6	.2032 - .2343	.2188	355978D	958.85	911.80	903.35	898.90	896.15	834.40
6	.2344 - .2812	.2500	355980D	1003.35	956.50	947.80	943.40	940.85	878.85
6	.2813 - .3437	.3125	355982D	1042.75	995.65	987.20	982.70	980.15	918.15
6	.3438 - .4062	.3750	355984D	1078.05	1030.90	1022.50	1018.05	1015.40	953.40
6	.4063 - .4687	.4375	355990D	1123.35	1076.30	1067.95	1063.40	1060.75	998.85
6	.4688 - .5312	.5000	355992D	1168.80	1121.85	1113.30	1108.90	1106.20	1044.25

Corner Radius or Chamfer on ONE Side

TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
6	.0704 - .0859	.0681	355966R1	\$932.15	\$864.50	\$854.95	\$850.20	\$847.15	\$845.60
6	.0860 - .1015	.0838	355968R1	870.55	802.80	793.35	788.60	785.65	784.05
6	.1016 - .1171	.0994	355970R1	934.95	867.15	857.60	852.75	849.75	848.25
6	.1172 - .1406	.1150	355972R1	891.10	823.35	813.85	808.90	806.05	804.45
6	.1407 - .1718	.1562	355974R1	923.40	855.70	846.10	841.45	838.35	836.75
6	.1719 - .2031	.1875	355976R1	955.60	887.85	878.40	873.50	870.55	869.00
6	.2032 - .2343	.2188	355978R1	987.80	920.15	910.75	905.60	902.90	901.25
6	.2344 - .2812	.2500	355980R1	1032.40	964.75	955.20	950.35	947.35	945.70
6	.2813 - .3437	.3125	355982R1	1071.65	1003.95	994.60	989.70	986.65	985.00
6	.3438 - .4062	.3750	355984R1	1106.85	1039.25	1029.75	1024.85	1021.95	1020.35
6	.4063 - .4687	.4375	355990R1	1152.30	1084.80	1075.25	1070.35	1067.30	1065.80
6	.4688 - .5312	.5000	355992R1	1197.80	1130.05	1120.55	1115.70	1112.85	1111.10

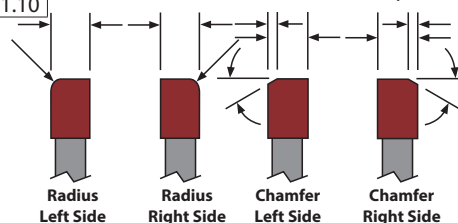
Radius Notes

- Maximum radius on one side is .2656"
- Full radius and maximum radius on both sides is ½ the width of the cutter
- A non-tangent radii must be quoted

Chamfer Notes

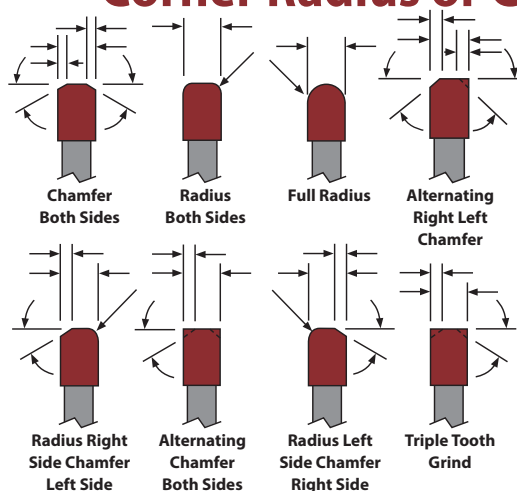
- Chamfer Angles can range from 0° to 45°
- Chamfer is measured off of the OD
- Maximum chamfer is the LESSER of ½ the width of the cutter OR .2656" length of angle when measured across the OD
- Chamfer Angle Tolerance: +/- ½°
- Chamfers greater than 45° must be quoted

Specify side for radius or chamfer



Corner Radius or Chamfer on BOTH Sides OR a Full Radius

- Alternating Chamfers add 5%



TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
6	.0704 - .0859	.0681	355966R2	\$961.80	\$881.05	\$869.80	\$863.90	\$860.35	\$858.35
6	.0860 - .1015	.0838	355968R2	900.10	819.45	808.10	802.25	798.80	796.75
6	.1016 - .1171	.0994	355970R2	964.50	883.70	872.35	866.55	862.95	861.15
6	.1172 - .1406	.1150	355972R2	920.75	840.00	828.60	822.75	819.30	817.30
6	.1407 - .1718	.1562	355974R2	952.95	872.10	860.85	854.95	851.50	849.60
6	.1719 - .2031	.1875	355976R2	985.00	904.35	893.05	887.30	883.85	881.85
6	.2032 - .2343	.2188	355978R2	1017.25	936.70	925.35	919.50	915.95	914.10
6	.2344 - .2812	.2500	355980R2	1061.90	981.15	969.85	964.00	960.40	958.70
6	.2813 - .3437	.3125	355982R2	1101.10	1020.50	1009.20	1003.35	999.80	997.90
6	.3438 - .4062	.3750	355984R2	1136.35	1055.75	1044.50	1038.65	1035.10	1033.30
6	.4063 - .4687	.4375	355990R2	1181.85	1101.10	1089.95	1084.10	1080.55	1078.65
6	.4688 - .5312	.5000	355992R2	1227.30	1146.65	1135.35	1129.60	1126.05	1124.10

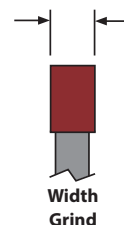
3" CARBIDE TIPPED MILLING CUTTERS FOR STEEL

TYPE 3556 - FOR STEEL



Width grinds between .0600" and .5312"

TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH - FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
3	.0600-.0703	.0555	355698D	\$558.60	\$520.90	\$513.85	\$510.40	\$508.20	\$458.45
3	.0704-.0859	.0711	355600D	654.40	616.65	609.80	606.40	604.20	554.35
3	.0860-.1015	.0867	355602D	558.60	520.90	513.85	510.40	508.20	458.45
3	.1016-.1171	.1024	355604D	523.00	485.20	478.30	474.90	472.65	423.15
3	.1172-.1406	.1180	355606D	483.30	445.60	438.80	435.40	432.95	383.35
3	.1407-.1718	.1562	355608D	502.75	465.00	458.15	454.65	452.30	402.65
3	.1719-.2031	.1875	355609D	522.10	484.35	477.50	474.00	471.75	422.05
3	.2032-.2343	.2188	355610D	541.35	503.70	496.90	493.30	491.25	441.45
3	.2344-.2812	.2500	355611D	560.95	523.15	516.35	512.95	510.60	460.95
3	.2813-.3437	.3125	355612D	605.40	567.55	560.80	557.30	555.05	505.40
3	.3438-.4062	.3750	355613D	650.10	612.35	605.40	601.95	599.65	549.90
3	.4063-.4687	.4375	355614D	711.00	673.30	666.50	663.00	660.75	611.05
3	.4688-.5312	.5000	355615D	779.00	741.25	734.45	731.00	728.70	679.05



Cutter Notes (All cutters on page)

- 16 Teeth
- C-5 Carbide
- 0° - 3° Positive Radial Rake
- Width Tolerance: +.001"/-.000"
- OD tolerance: +.0313"/-.000"
- 1" Arbor hole +.001"/-.000"
- ANSI standard keyway dimensions
- Add 5% to grind the hub width thinner
- Add 5% to match OD's on cutter sets within .001"
- Not designed to be used on heat treated materials greater than 475 Brinell (50Rc)

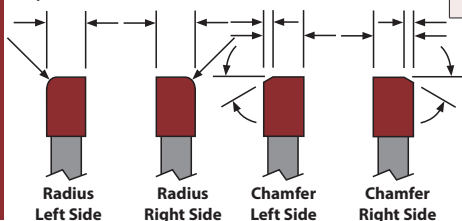
Corner Radius or Chamfer on ONE Side

Radius Notes

- Maximum radius on one side is .2656"
- Full radius and maximum radius on both sides is ½ the width of the cutter
- A non-tangent radii must be quoted

Chamfer Notes

- Chamfer Angles can range from 0° to 45°
- Chamfer is measured off of the OD
- Maximum chamfer is the LESSER of ½ the width of the cutter OR .2656" length of angle when measured across the OD
- Chamfer Angle Tolerance: $\pm \frac{1}{2}^\circ$
- Chamfers greater than 45° must be quoted



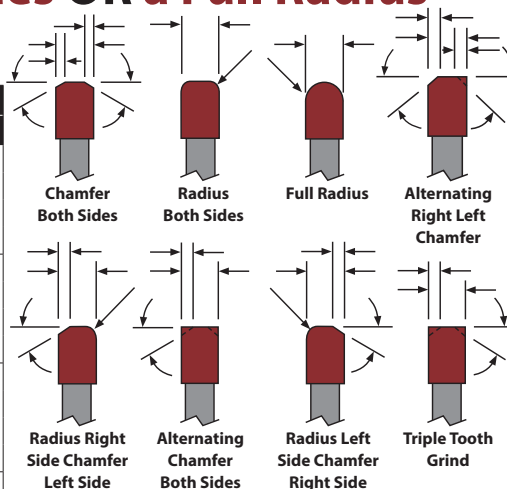
TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED WITH RADIUS OR CHAMFER					
				1 PC	2 PC	3 PC	4 PC	5 PC	6 PC
3	.0600-.0703	.0555	355698R1	\$583.80	\$528.60	\$520.90	\$516.80	\$514.40	\$513.15
3	.0704-.0859	.0711	355600R1	679.70	624.45	616.75	612.75	610.30	609.10
3	.0860-.1015	.0867	355602R1	583.80	528.60	520.90	516.80	514.40	513.15
3	.1016-.1171	.1024	355604R1	548.35	493.00	485.30	481.35	479.00	477.55
3	.1172-.1406	.1180	355606R1	508.65	453.35	445.65	441.75	439.25	437.95
3	.1407-.1718	.1562	355608R1	527.90	472.80	465.10	461.15	458.50	457.40
3	.1719-.2031	.1875	355609R1	547.40	492.15	484.50	480.45	478.10	476.80
3	.2032-.2343	.2188	355610R1	566.75	511.50	503.80	499.80	497.45	496.10
3	.2344-.2812	.2500	355611R1	586.30	530.95	523.25	519.35	516.80	515.50
3	.2813-.3437	.3125	355612R1	630.65	575.30	567.60	563.65	561.25	560.05
3	.3438-.4062	.3750	355613R1	675.20	620.15	612.45	608.35	605.85	604.65
3	.4063-.4687	.4375	355614R1	736.40	681.10	673.45	669.45	667.10	665.90
3	.4688-.5312	.5000	355615R1	804.40	749.10	741.40	737.50	734.90	733.85

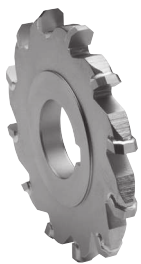
Specify side for radius or chamfer

Corner Radius or Chamfer on BOTH Sides OR a Full Radius

- Alternating Chamfers add 5%

TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED WITH RADI, CHAMFERS, OR COMBINATION					
				1 PC	2 PC	3 PC	4 PC	5 PC	6 PC
3	.0600-.0703	.0555	355698R2	\$597.70	\$536.45	\$527.75	\$523.25	\$520.75	\$519.30
3	.0704-.0859	.0711	355600R2	693.70	632.30	623.60	619.25	616.60	615.00
3	.0860-.1015	.0867	355602R2	597.70	536.45	527.75	523.25	520.75	519.30
3	.1016-.1171	.1024	355604R2	562.15	500.85	492.15	487.75	485.15	483.70
3	.1172-.1406	.1180	355606R2	522.60	461.15	452.55	448.15	445.45	443.90
3	.1407-.1718	.1562	355608R2	541.90	480.45	471.95	467.60	464.80	463.45
3	.1719-.2031	.1875	355609R2	561.25	499.95	491.40	487.00	484.20	482.85
3	.2032-.2343	.2188	355610R2	580.85	519.35	510.70	506.30	503.65	502.05
3	.2344-.2812	.2500	355611R2	600.20	538.75	530.10	525.70	523.00	521.65
3	.2813-.3437	.3125	355612R2	644.65	583.20	574.55	570.10	567.45	566.00
3	.3438-.4062	.3750	355613R2	689.15	627.70	619.25	614.85	612.20	610.70
3	.4063-.4687	.4375	355614R2	750.35	688.95	680.40	676.00	673.20	671.80
3	.4688-.5312	.5000	355615R2	818.30	756.75	748.35	744.00	741.20	739.75





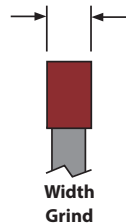
4" CARBIDE TIPPED MILLING CUTTERS FOR STEEL

TYPE 3556 - FOR STEEL

Width grinds between .0600" and .5312"

Cutter Notes (All cutters on page)

- 20 Teeth
- C-5 Carbide
- 5° Positive Radial Rake
- Width Tolerance: +.001"/-.000"
- OD tolerance: +.0313"/-.000"
- 1" Arbor hole +.001"/-.000"
- ANSI standard keyway dimensions
- Add 5% to grind the hub width thinner
- Add 5% to match OD's on cutter sets within .001"
- Not designed to be used on heat treated materials greater than 475 Brinell (50Rc)



TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
4	.0600 - .0703	.0545	355616D	\$672.45	\$628.85	\$620.60	\$616.35	\$613.80	\$554.35
4	.0704 - .0859	.0701	355618D	724.45	680.95	672.75	668.55	666.05	606.60
4	.0860 - .1015	.0858	355620D	672.45	628.85	620.60	616.35	613.80	554.35
4	.1016 - .1171	.1014	355622D	642.35	598.75	590.60	586.35	583.70	524.30
4	.1172 - .1406	.1170	355624D	607.65	564.05	555.90	551.65	549.15	489.65
4	.1407 - .1718	.1562	355626D	644.20	600.55	592.50	588.15	585.65	526.25
4	.1719 - .2031	.1875	355628D	646.30	602.75	594.50	590.30	587.65	528.20
4	.2032 - .2343	.2188	355630D	677.45	634.00	625.75	621.45	619.00	559.60
4	.2344 - .2812	.2500	355632D	684.85	641.25	633.00	628.85	626.35	566.75
4	.2813 - .3437	.3125	355634D	732.95	689.45	681.25	677.05	674.50	615.00
4	.3438 - .4062	.3750	355636D	777.55	734.00	725.90	721.60	718.90	659.55
4	.4063 - .4687	.4375	355638D	850.80	807.20	799.10	794.70	792.20	732.80
4	.4688 - .5312	.5000	355640D	932.20	888.75	880.45	876.30	873.70	814.35

Corner Radius or Chamfer on ONE Side

TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
4	.0600 - .0703	.0545	355616R1	\$699.70	\$637.15	\$628.25	\$623.40	\$620.50	\$619.00
4	.0704 - .0859	.0701	355618R1	751.90	689.45	680.40	675.50	672.75	671.20
4	.0860 - .1015	.0858	355620R1	699.70	637.15	628.25	623.40	620.50	619.00
4	.1016 - .1171	.1014	355622R1	669.50	607.15	598.15	593.40	590.50	589.00
4	.1172 - .1406	.1170	355624R1	634.95	572.60	563.50	558.75	555.80	554.35
4	.1407 - .1718	.1562	355626R1	671.55	609.10	600.10	595.25	592.50	590.90
4	.1719 - .2031	.1875	355628R1	673.50	611.15	602.15	597.25	594.45	592.95
4	.2032 - .2343	.2188	355630R1	704.90	642.45	633.40	628.55	625.75	624.25
4	.2344 - .2812	.2500	355632R1	712.10	649.55	640.65	635.95	632.90	631.50
4	.2813 - .3437	.3125	355634R1	760.25	698.00	688.70	684.05	681.25	679.65
4	.3438 - .4062	.3750	355636R1	804.85	742.40	733.15	728.50	725.70	724.10
4	.4063 - .4687	.4375	355638R1	878.10	815.65	806.65	801.90	798.95	797.50
4	.4688 - .5312	.5000	355640R1	959.50	897.20	888.00	883.25	880.35	878.85

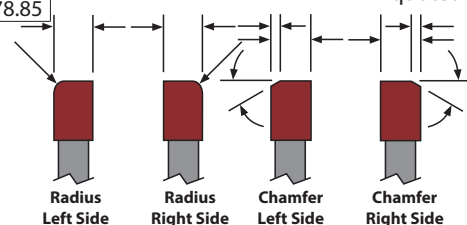
Specify side for radius or chamfer

Radius Notes

- Maximum radius on one side is .2656"
- Full radius and maximum radius on both sides is ½ the width of the cutter
- A non-tangent radii must be quoted

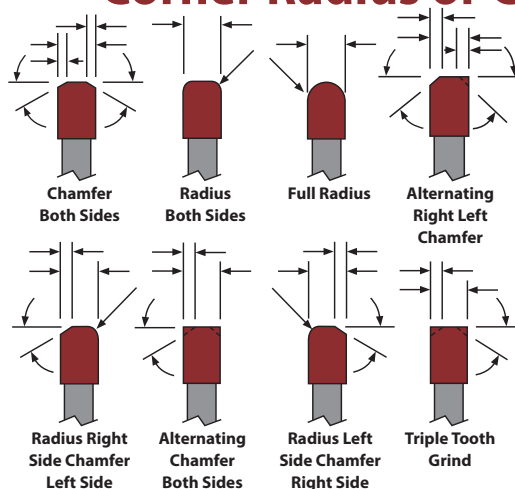
Chamfer Notes

- Chamfer Angles can range from 0° to 45°
- Chamfer is measured off of the OD
- Maximum chamfer is the LESSER of ½ the width of the cutter OR .2656" length of angle when measured across the OD
- Chamfer Angle Tolerance: $\pm \frac{1}{2}^\circ$
- Chamfers greater than 45° must be quoted



Corner Radius or Chamfer on BOTH Sides OR a Full Radius

- Alternating Chamfers add 5%



TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
4	.0600 - .0703	.0545	355616R2	\$714.50	\$645.70	\$635.70	\$630.50	\$627.25	\$625.60
4	.0704 - .0859	.0701	355618R2	766.65	698.00	688.05	682.60	679.50	677.75
4	.0860 - .1015	.0858	355620R2	714.50	645.70	635.70	630.50	627.25	625.60
4	.1016 - .1171	.1014	355622R2	684.40	615.70	605.55	600.40	597.15	595.50
4	.1172 - .1406	.1170	355624R2	649.95	581.05	571.10	565.70	562.60	560.95
4	.1407 - .1718	.1562	355626R2	686.45	617.60	607.60	602.30	599.15	597.45
4	.1719 - .2031	.1875	355628R2	688.50	619.55	609.50	604.50	601.25	599.50
4	.2032 - .2343	.2188	355630R2	719.80	650.85	641.00	635.55	632.45	630.75
4	.2344 - .2812	.2500	355632R2	726.90	658.15	648.20	642.90	639.65	638.05
4	.2813 - .3437	.3125	355634R2	775.30	706.40	696.35	691.05	688.10	686.15
4	.3438 - .4062	.3750	355636R2	819.65	750.85	740.80	735.60	732.50	730.85
4	.4063 - .4687	.4375	355638R2	893.00	824.10	814.00	808.85	805.75	804.00
4	.4688 - .5312	.5000	355640R2	974.40	905.55	895.55	890.35	887.25	885.50

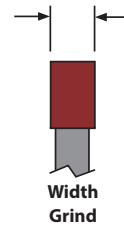
5" CARBIDE TIPPED MILLING CUTTERS FOR STEEL

TYPE 3556 - FOR STEEL



Width grinds between .0704" and .5312"

TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
5	.0704-.0859	.0691	355642D	\$871.75	\$827.30	\$819.05	\$814.60	\$812.00	\$751.15
5	.0860-.1015	.0848	355644D	877.10	832.50	824.25	819.90	817.25	756.45
5	.1016-.1171	.1004	355646D	826.25	781.85	773.55	769.10	766.50	705.80
5	.1172-.1406	.1160	355648D	732.65	688.20	679.70	675.35	672.75	612.00
5	.1407-.1718	.1562	355650D	746.70	702.25	693.85	689.45	686.90	626.05
5	.1719-.2031	.1875	355652D	790.70	746.15	737.85	733.45	730.90	670.10
5	.2032-.2343	.2188	355654D	809.85	765.35	756.75	752.50	749.95	689.15
5	.2344-.2812	.2500	355656D	839.40	794.85	786.55	782.25	779.65	718.80
5	.2813-.3437	.3125	355658D	902.20	857.85	849.45	845.15	842.40	781.80
5	.3438-.4062	.3750	355660D	965.35	920.90	912.35	908.10	905.40	844.70
5	.4063-.4687	.4375	355662D	1059.25	1014.65	1006.30	1001.85	999.35	938.55
5	.4688-.5312	.5000	355664D	1163.50	1118.90	1110.65	1106.20	1103.75	1042.85



Cutter Notes (All cutters on page)

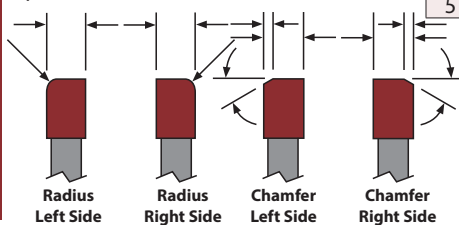
- 24 Teeth
- C-5 Carbide
- 1° - 3° Positive Radial Rake
- Width Tolerance: +.001"/-.000"
- OD tolerance: +.0313"/-.000"
- 1" Arbor hole +.001"/-.000"
- ANSI standard keyway dimensions
- Add 5% to grind the hub width thinner
- Add 5% to match OD's on cutter sets within .001"
- Not designed to be used on heat treated materials greater than 475 Brinell (50Rc)

Radius Notes

- Maximum radius on one side is .2656"
- Full radius and maximum radius on both sides is ½ the width of the cutter
- A non-tangent radii must be quoted

Chamfer Notes

- Chamfer Angles can range from 0° to 45°
- Chamfer is measured off of the OD
- Maximum chamfer is the LESSER of ½ the width of the cutter OR .2656" length of angle when measured across the OD
- Chamfer Angle Tolerance: $\pm \frac{1}{2}^\circ$
- Chamfers greater than 45° must be quoted



Corner Radius or Chamfer on ONE Side

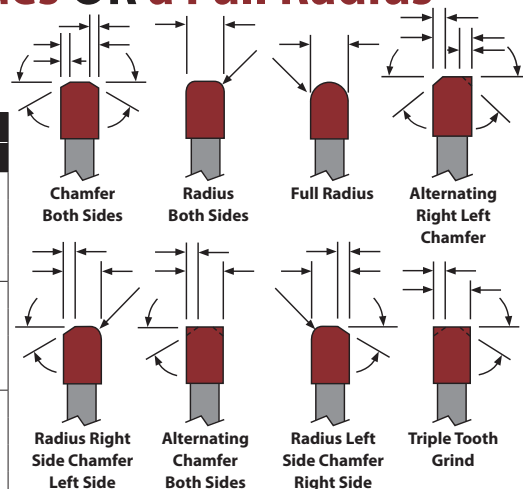
TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
5	.0704-.0859	.0691	355642R1	\$899.40	\$835.75	\$826.45	\$821.60	\$818.75	\$817.15
5	.0860-.1015	.0848	355644R1	904.80	841.15	831.85	827.00	824.05	822.45
5	.1016-.1171	.1004	355646R1	854.00	790.25	780.95	776.10	773.30	771.80
5	.1172-.1406	.1160	355648R1	760.15	696.50	687.20	682.45	679.50	678.00
5	.1407-.1718	.1562	355650R1	774.35	710.70	701.40	696.50	693.70	692.05
5	.1719-.2031	.1875	355652R1	818.30	754.65	745.40	740.60	737.70	736.10
5	.2032-.2343	.2188	355654R1	837.40	773.75	764.40	759.70	756.60	755.15
5	.2344-.2812	.2500	355656R1	867.15	803.50	794.10	789.25	786.30	784.75
5	.2813-.3437	.3125	355658R1	929.95	866.20	857.10	852.25	849.30	847.80
5	.3438-.4062	.3750	355660R1	993.10	929.30	919.90	915.05	912.10	910.70
5	.4063-.4687	.4375	355662R1	1086.75	1023.15	1013.80	1009.05	1006.15	1004.55
5	.4688-.5312	.5000	355664R1	1191.10	1127.40	1118.05	1113.30	1110.40	1108.75

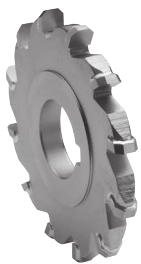
Specify side for radius or chamfer

Corner Radius or Chamfer on BOTH Sides OR a Full Radius

- Alternating Chamfers add 5%

TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
5	.0704-.0859	.0691	355642R2	\$929.05	\$852.60	\$841.60	\$835.75	\$832.30	\$830.40
5	.0860-.1015	.0848	355644R2	934.40	858.00	846.85	840.90	837.40	835.70
5	.1016-.1171	.1004	355646R2	883.60	807.20	796.05	790.15	786.70	784.90
5	.1172-.1406	.1160	355648R2	789.85	713.45	702.30	696.45	692.95	691.15
5	.1407-.1718	.1562	355650R2	804.00	727.65	716.45	710.55	707.10	705.25
5	.1719-.2031	.1875	355652R2	848.00	771.55	760.40	754.65	751.15	749.20
5	.2032-.2343	.2188	355654R2	867.15	790.70	779.65	773.70	770.20	768.25
5	.2344-.2812	.2500	355656R2	896.70	820.25	809.15	803.40	799.85	797.95
5	.2813-.3437	.3125	355658R2	959.65	883.25	872.05	866.15	862.75	860.85
5	.3438-.4062	.3750	355660R2	1022.50	946.20	935.00	929.10	925.65	923.85
5	.4063-.4687	.4375	355662R2	1116.45	1040.20	1028.90	1023.00	1019.45	1017.75
5	.4688-.5312	.5000	355664R2	1220.70	1144.35	1133.10	1127.35	1123.95	1122.05





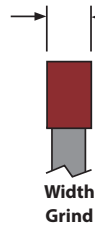
6" CARBIDE TIPPED MILLING CUTTERS FOR STEEL

TYPE 3556 - FOR STEEL

Width grinds between .0704" and .5312"

Cutter Notes (All cutters on page)

- 28 Teeth
- C-5 Carbide
- 1° - 3° Positive Radial Rake
- Width Tolerance: +.001"/-.000"
- OD tolerance: +.0313"/-.000"
- 1" Arbor hole +.001"/-.000"
- ANSI standard keyway dimensions
- Add 5% to grind the hub width thinner
- Add 5% to match OD's on cutter sets within .001"
- Not designed to be used on heat treated materials greater than 475 Brinell (50Rc)



TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
6	.0704 - .0859	.0681	355666D	\$979.70	\$930.85	\$921.35	\$916.40	\$913.45	\$844.55
6	.0860 - .1015	.0838	355668D	908.85	860.10	850.60	845.60	842.70	773.70
6	.1016 - .1171	.0994	355670D	982.65	933.80	924.30	919.35	916.35	847.50
6	.1172 - .1406	.1150	355672D	947.05	898.20	888.75	883.70	880.80	811.80
6	.1407 - .1718	.1562	355674D	946.60	897.60	888.15	883.25	880.30	811.40
6	.1719 - .2031	.1875	355676D	1005.70	956.85	947.40	942.50	939.50	870.45
6	.2032 - .2343	.2188	355678D	1020.60	971.75	962.30	957.40	954.35	885.45
6	.2344 - .2812	.2500	355680D	1081.75	1032.75	1023.30	1018.40	1015.45	946.45
6	.2813 - .3437	.3125	355682D	1094.85	1045.95	1036.40	1031.50	1028.55	959.65
6	.3438 - .4062	.3750	355684D	1131.80	1082.75	1073.20	1068.30	1065.45	996.55
6	.4063 - .4687	.4375	355690D	1242.50	1193.55	1184.10	1179.00	1176.20	1107.15
6	.4688 - .5312	.5000	355692D	1365.40	1316.65	1307.20	1302.05	1299.25	1230.25

Corner Radius or Chamfer on ONE Side

TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
6	.0704 - .0859	.0681	355666R1	\$1008.95	\$940.10	\$929.65	\$924.05	\$920.90	\$919.05
6	.0860 - .1015	.0838	355668R1	937.95	869.30	858.80	853.30	849.95	848.15
6	.1016 - .1171	.0994	355670R1	1011.75	942.95	932.45	927.10	923.75	921.95
6	.1172 - .1406	.1150	355672R1	976.05	907.45	896.90	891.40	888.05	886.25
6	.1407 - .1718	.1562	355674R1	975.75	906.95	896.45	890.95	887.70	885.95
6	.1719 - .2031	.1875	355676R1	1034.90	966.10	955.60	950.00	946.80	945.10
6	.2032 - .2343	.2188	355678R1	1049.85	981.05	970.50	965.10	961.80	959.95
6	.2344 - .2812	.2500	355680R1	1110.85	1042.05	1031.50	1026.10	1022.85	1021.05
6	.2813 - .3437	.3125	355682R1	1124.10	1055.15	1044.70	1039.25	1036.00	1034.20
6	.3438 - .4062	.3750	355684R1	1160.85	1091.95	1081.55	1076.10	1072.75	1070.95
6	.4063 - .4687	.4375	355690R1	1271.60	1202.65	1192.20	1186.70	1183.50	1181.70
6	.4688 - .5312	.5000	355692R1	1394.60	1325.70	1315.30	1309.75	1306.45	1304.80

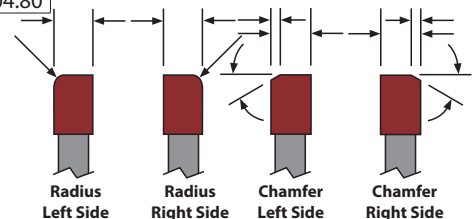
Radius Notes

- Maximum radius on one side is .2656"
- Full radius and maximum radius on both sides is ½ the width of the cutter
- A non-tangent radii must be quoted

Chamfer Notes

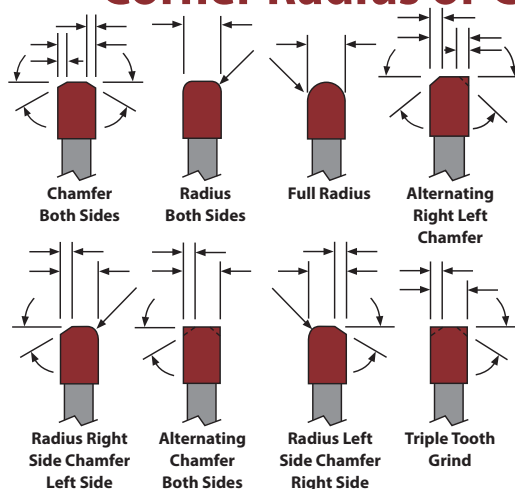
- Chamfer Angles can range from 0° to 45°
- Chamfer is measured off of the OD
- Maximum chamfer is the LESSER of ½ the width of the cutter OR .2656" length of angle when measured across the OD
- Chamfer Angle Tolerance: +/- ½°
- Chamfers greater than 45° must be quoted

Specify side for radius or chamfer



Corner Radius or Chamfer on BOTH Sides OR a Full Radius

- Alternating Chamfers add 5%



TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
6	.0704 - .0859	.0681	355666R2	\$1040.55	\$958.55	\$945.85	\$939.50	\$935.55	\$933.45
6	.0860 - .1015	.0838	355668R2	969.70	887.60	875.05	868.55	864.65	862.60
6	.1016 - .1171	.0994	355670R2	1043.45	961.35	948.85	942.20	938.50	936.25
6	.1172 - .1406	.1150	355672R2	1007.80	925.65	913.15	906.60	902.90	900.70
6	.1407 - .1718	.1562	355674R2	1007.35	925.35	912.85	906.20	902.35	900.25
6	.1719 - .2031	.1875	355676R2	1066.50	984.45	971.85	965.35	961.50	959.30
6	.2032 - .2343	.2188	355678R2	1081.45	999.35	986.80	980.30	976.55	974.35
6	.2344 - .2812	.2500	355680R2	1142.40	1060.35	1047.95	1041.30	1037.45	1035.25
6	.2813 - .3437	.3125	355682R2	1155.70	1073.60	1061.05	1054.55	1050.70	1048.50
6	.3438 - .4062	.3750	355684R2	1192.45	1110.40	1097.85	1091.20	1087.50	1085.25
6	.4063 - .4687	.4375	355690R2	1303.10	1221.10	1208.55	1202.05	1198.20	1196.05
6	.4688 - .5312	.5000	355692R2	1426.25	1344.15	1331.60	1325.10	1321.25	1319.05

CARBIDE TIPPED SIDE MILLING CUTTERS

TYPE 3540 - FOR NON-FERROUS

Carbide tips brazed to alloy steel bodies.

High feed rates can be achieved due to the large flute capacity.
For milling aluminum, magnesium, zinc, brass, bronze,
plastics and non-metals.

TYPE 3541 - FOR CAST IRON

Carbide tips brazed to alloy steel bodies.

Increased number of teeth with large flute capacity
permit higher metal removal at moderate speeds and feeds.

TYPE 3542 - FOR STEEL

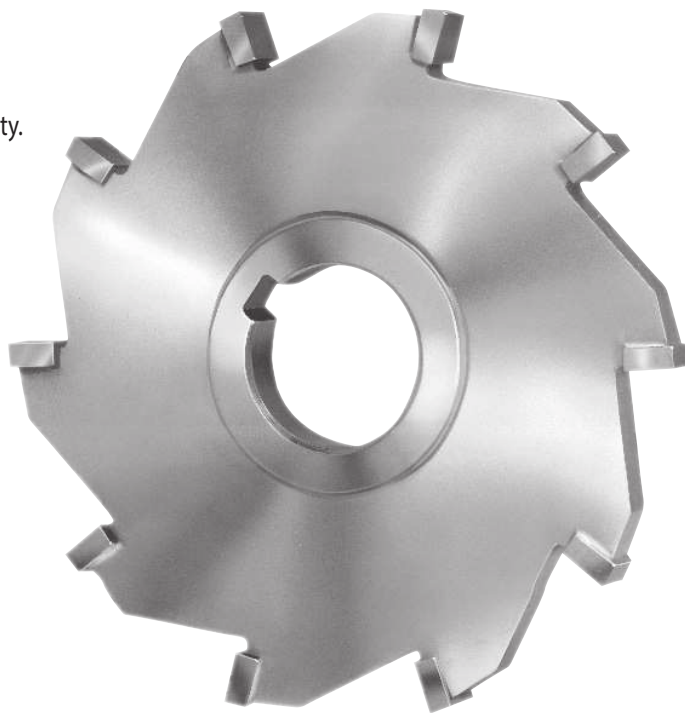
Carbide tips brazed to alloy steel bodies.

Steel cutting grade of carbide permits the heavy
chip loads for milling steel.

TYPE 3543 - FOR STAINLESS STEEL

Carbide tips brazed to alloy steel bodies.

High number of teeth for milling of stainless steel and related
alloy steels. AISI type 200 thru 350 stainless steels.



ALL TYPES:

Tool diameter tolerance: $\pm \frac{1}{64}''$ / $\pm .000''$.

Face width tolerance: $\pm .001''$ / $\pm .000''$.

Arbor hole tolerance: $\pm .001''$ / $\pm .000''$.

Sharpened on all 3 cutting edges.

TOOL DIAM.	WIDTH		TYPE 3540 FOR NON-FERROUS				TYPE 3541 FOR CAST IRON				TYPE 3542 FOR STEEL				TYPE 3543 FOR STAINLESS STEEL			
	FRACTIONAL	DECIMAL	NO. OF TEETH	1"ARBOR EDP NO.	1 1/4"ARBOR EDP NO.	PRICE EACH	NO. OF TEETH	1"ARBOR EDP NO.	1 1/4"ARBOR EDP NO.	PRICE EACH	NO. OF TEETH	1"ARBOR EDP NO.	1 1/4"ARBOR EDP NO.	PRICE EACH	NO. OF TEETH	1"ARBOR EDP NO.	1 1/4"ARBOR EDP NO.	PRICE EACH
3	1/4	.2500	4	354030	-	\$205.25	6	354130	-	\$256.75	6	354230	-	\$253.50	8	354330	-	\$316.15
3	5/16	.3125	4	354031	-	215.45	6	354131	-	257.85	6	354231	-	256.90	8	354331	-	331.30
3	3/8	.3750	4	354032	-	223.30	6	354132	-	262.95	6	354232	-	260.20	8	354332	-	335.75
3	7/16	.4375	4	354033	-	232.45	6	354133	-	284.35	6	354233	-	290.15	-	-	-	-
3	1/2	.5000	4	354034	-	243.75	6	354134	-	296.15	6	354234	-	294.00	8	354334	-	375.45
4	1/4	.2500	4	354040	-	267.45	8	354140	-	331.65	8	354240	-	333.75	10	354340	-	395.40
4	5/16	.3125	4	354041	-	275.10	8	354141	-	342.75	8	354241	-	354.40	10	354341	-	415.35
4	3/8	.3750	4	354042	354043	282.30	8	354142	354143	360.15	8	354242	354243	354.40	10	354342	354343	424.65
4	7/16	.4375	4	354074	-	283.60	8	354174	-	367.50	8	354274	-	365.00	10	354374	-	461.10
4	1/2	.5000	4	354044	354045	283.60	8	354144	354145	379.60	8	354244	354245	377.60	10	354344	354345	464.55
4	5/8	.6250	4	354094	-	308.30	8	354194	-	390.10	8	354294	-	396.35	-	-	-	-
4	3/4	.7500	4	354046	354047	330.85	8	354146	354147	422.75	8	354246	354247	463.35	10	354346	354347	489.20
4	3/4	.7500	4	354048	354049	370.65	8	354148	354149	422.75	8	354248	354249	469.15	10	354348	354349	503.85
5	1/4	.2500	6	354050	-	373.70	10	354150	-	439.15	10	354250	-	439.40	-	-	-	-
5	5/16	.3125	-	-	-	-	10	354151	-	439.15	10	354251	-	439.40	-	-	-	-
5	3/8	.3750	-	-	-	-	10	-	354153	449.75	10	-	354253	461.30	-	-	-	-
5	7/16	.4375	6	-	354075	388.75	10	-	354175	452.00	10	-	354275	476.15	-	-	-	-
5	1/2	.5000	6	354054	354055	393.35	10	354154	354155	479.85	10	354254	354255	476.30	12	354354	354355	533.65
5	5/8	.6250	6	-	354095	405.95	10	-	354195	488.05	10	-	354295	497.30	-	-	-	-
5	3/4	.7500	6	-	354057	427.05	10	-	354157	519.45	10	-	354257	583.65	12	-	354357	582.90
5	3/4	.7500	6	354058	354059	455.25	10	354158	354159	588.15	10	354258	354259	645.95	12	354358	354359	653.65
5	1	1.0000	6	-	354015	456.00	10	-	354115	640.10	10	-	354215	681.30	-	-	-	-
6	3/8	.3750	6	354062	-	401.00	12	-	354163	552.55	12	-	354263	583.80	-	-	-	-
6	1/2	.5000	6	354064	354065	439.15	12	354164	354165	586.80	12	354264	354265	601.25	14	354364	354365	686.50
6	5/8	.6250	6	-	354067	481.25	12	-	354167	641.30	12	-	354267	654.10	14	-	354367	692.05
6	3/4	.7500	6	354068	354069	553.45	12	354168	354169	719.55	12	354268	354269	745.10	14	354368	354369	746.80
6	1	1.0000	6	-	354016	634.45	12	-	354116	727.10	12	-	354216	760.15	-	-	-	-
				1 1/4" ARBOR	1 1/2" ARBOR			1 1/4" ARBOR	1 1/2" ARBOR			1 1/4" ARBOR	1 1/2" ARBOR			1 1/4" ARBOR	1 1/2" ARBOR	
8	3/4	.7500	8	354088	354089	720.00	12	354188	354189	755.15	12	354288	354289	783.35	14	354388	-	800.70
8	1	1.0000	8	354080	354081	781.40	12	354180	354181	787.00	12	354280	354281	815.35	-	-	-	-

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CARBIDE TIPPED ANGLE CUTTERS

SINGLE ANGLE CUTTERS

TYPE 3714 - 45° RIGHT
TYPE 3716 - 45° LEFT

TYPE 3724 - 60° RIGHT
TYPE 3726 - 60° LEFT

(Left hand shown)

Carbide tips brazed to hardened alloy steel bodies. General purpose cutters for cutting non-ferrous materials and cast iron.

TOOL DIAMETER	WIDTH	ARBOR HOLE	NO. OF TEETH	RIGHT 45° TYPE 3714 EDP NO.	LEFT 45° TYPE 3716 EDP NO.	RIGHT 60° TYPE 3724 EDP NO.	LEFT 60° TYPE 3726 EDP NO.	ALL TYPES PRICE
3	1/2	1	8	371408	371608	372408	372608	\$640.70
4	1/2	1 1/4	10	371416	371616	372416	372616	792.90
4	3/4	1 1/4	10	371424	371624	372424	372624	860.20

DOUBLE ANGLE CUTTERS

TYPE 3750 - 45° DOUBLE
TYPE 3752 - 60° DOUBLE
TYPE 3754 - 90° DOUBLE

Carbide tips brazed to hardened alloy steel bodies. General purpose cutters for cutting non-ferrous materials and cast iron.

TOOL DIAMETER	WIDTH	ARBOR HOLE	NO. OF TEETH	45° TYPE 3750 EDP NO.	60° TYPE 3752 EDP NO.	90° TYPE 3754 EDP NO.	ALL TYPES PRICE
2 3/4	1/2	1	8	-	375207	375407	\$539.40
3	1/2	1	8	375008	375208	375408	672.70
4	1/2	1 1/4	10	375016	375216	375416	832.50
4	3/4	1 1/4	10	375024	375224	375424	903.05
4	1	1 1/4	10	-	375232	375432	1056.90

CARBIDE TIPPED SHELL MILL CUTTERS

Carbide tips brazed to alloy steel bodies.

TYPE 3530 - FOR NON-FERROUS

Large, open right hand spiral flutes aid in chip removal.

TYPE 3531 - FOR CAST IRON

Open flutes for machining cast iron, soft cast iron and malleable iron.

TYPE 3532 - FOR STEEL

Large, open left hand spiral flutes absorb impact shock.

ALL TYPES ON THIS PAGE:

Tool diameter tolerance: +.016"/-.000".

Arbor hole tolerance: +.001"/-.000".

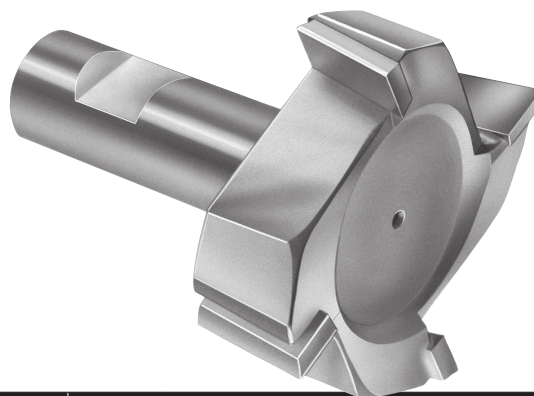
TOOL DIAMETER	ARBOR HOLE	CARBIDE LENGTH	OVERALL LENGTH	DRIVE SLOTS		TYPE 3530 FOR NON-FERROUS			TYPE 3531 FOR CAST IRON			TYPE 3532 FOR STEEL		
				WIDTH	DEPTH	NO. OF TEETH	EDP NO.	PRICE EACH	NO. OF TEETH	EDP NO.	PRICE EACH	NO. OF TEETH	EDP NO.	PRICE EACH
1 1/4	1/2	1/2	1	1/4	5/32	4	353024	\$306.85	4	353124	\$306.85	4	353224	\$319.20
1 1/2	1/2	1/2	1 1/8	1/4	5/32	4	353026	319.55	4	353126	319.55	4	353226	332.25
1 3/4	3/4	1/2	1 1/4	5/16	3/16	4	353028	398.20	4	353128	398.20	4	353228	414.00
2	3/4	5/8	1 3/8	5/16	3/16	4	353032	418.15	4	353132	444.90	4	353232	462.60
2 1/4	1	5/8	1 1/2	3/8	7/32	6	353036	441.75	6	353136	481.65	6	353236	500.95
2 1/2	1	5/8	1 5/8	3/8	7/32	6	353040	465.10	6	353140	524.95	6	353240	524.95
2 3/4	1	5/8	1 5/8	3/8	7/32	6	353044	490.80	6	353144	550.75	6	353244	550.75
3	1 1/4	3/4	1 3/4	1/2	9/32	6	353048	537.95	6	353148	599.00	6	353248	599.00
3 1/2	1 1/4	3/4	1 7/8	1/2	9/32	6	353056	658.55	8	353156	704.45	6	353256	744.65
4	1 1/2	3/4	2 1/4	5/8	3/8	6	353064	827.50	8	353164	871.50	6	353264	925.05

CARBIDE TIPPED FACE MILLS

TYPE 3536 - FOR NON-FERROUS
TYPE 3537 - FOR CAST IRON
TYPE 3538 - FOR STEEL

Carbide tips brazed to hardened alloy steel bodies.

Straight shank with Weldon flats. Tools are designed with appropriate carbide grade and geometry for material being machined.



TOOL DIAMETER	SHANK DIAMETER	TOOL WIDTH	CARBIDE LENGTH	DEPTH OF CARBIDE	OVERALL LENGTH	TYPE 3536 - NON-FERROUS			TYPE 3537 - CAST IRON			TYPE 3538 - STEEL		
						NO. OF TEETH	EDP NO.	PRICE EACH	NO. OF TEETH	EDP NO.	PRICE EACH	NO. OF TEETH	EDP NO.	PRICE EACH
1 1/2	3/4	3/4	1/2	1/4	2 7/8	4	353624	\$286.00	4	353724	\$286.00	4	353824	\$294.30
2	3/4	3/4	1/2	1/4	2 7/8	4	353632	349.65	4	353732	349.65	4	353832	357.90
2 1/2	3/4	3/4	1/2	1/4	2 7/8	6	353640	393.70	6	353740	393.70	6	353840	404.30
3 1/2	1 1/4	1 1/8	5/8	5/16	4	6	353656	679.50	6	353756	679.50	8	353856	702.85
3 1/2	1 1/2	1 1/8	5/8	5/16	4	6	353657	713.50	6	353757	713.50	8	353857	737.85
4	1 1/2	1 1/2	3/4	3/8	5	8	353664	763.50	8	353764	763.50	8	353864	764.40

CARBIDE TIPPED COUNTERSINKS

SINGLE FLUTE COUNTERSINKS

TYPE 3561 - 60°
TYPE 3581 - 82°
TYPE 3591 - 90°
TYPE 3584 - 100°

Carbide tips brazed to hardened alloy steel bodies.

The single flute design with a positive rake assures burr-free holes and chatterless operation. Not recommended for portable hand tool use — see three flute types.



THREE FLUTE COUNTERSINKS

TYPE 3563 - 60°
TYPE 3583 - 82°
TYPE 3590 - 90°
TYPE 3585 - 100°

Carbide tips brazed to hardened alloy steel bodies.

The three flute design tends to center the tool in portable tool use and results in longer tool life.



TOOL DIAM.	SHANK DIAM.	MINIMUM CUTTING DIAM.	60° ANGLE TYPE 3561 EDP NO.	82° ANGLE TYPE 3581 EDP NO.	90° ANGLE TYPE 3591 EDP NO.	100° ANGLE TYPE 3584 EDP NO.	ALL TYPES PRICE
1/4	3/16	1/16	356108	358108	359108	358408	\$101.15
3/8	1/4	5/64	356112	358112	359112	358412	101.15
1/2	3/8	3/32	356116	358116	359116	358416	120.15
3/4	1/2	1/8	356124	358124	359124	358424	150.20
1	1/2	1/8	356132	358132	359132	358432	196.20
1 1/4	1/2	5/32	356140	358140	359140	358440	249.70
1 1/2	1/2	3/16	356148	358148	359148	358448	279.95

TOOL DIAM.	SHANK DIAM.	MINIMUM CUTTING DIAM.	60° ANGLE TYPE 3563 EDP NO.	82° ANGLE TYPE 3583 EDP NO.	90° ANGLE TYPE 3590 EDP NO.	100° ANGLE TYPE 3585 EDP NO.	ALL TYPES PRICE
1/4	3/16	5/64	356308	358308	359008	358508	\$111.30
3/8	1/4	7/64	356312	358312	359012	358512	111.30
1/2	3/8	9/64	356316	358316	359016	358516	132.15
3/4	1/2	1/8	356320	358320	359020	358520	139.05
1	1/2	1/8	356324	358324	359024	358524	167.15
1 1/4	1/2	5/32	356328	358328	359028	358528	191.55
1 1/2	1/2	3/16	356332	358332	359032	358532	208.95
1 1/4	1/2	5/32	356340	358340	359040	358540	259.90
1 1/2	1/2	3/8	356348	358348	359048	358548	303.15

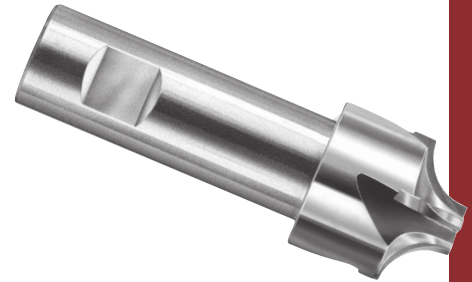
CARBIDE TIPPED CORNER ROUNDING END MILLS

TYPE 3740 - FOR NON-FERROUS & CAST IRON

TYPE 3741 - FOR STEEL

CIRCLE RADIUS	TOOL DIAM.	SHANK DIAM.	END DIAM.	CARBIDE LENGTH	OVERALL LENGTH	TYPE 3740		TYPE 3741	
						EDP NO.	PRICE EACH	EDP NO.	PRICE EACH
1/16	7/16	3/8	17/64	13/32	2 3/4	374002	\$199.35	374102	\$215.45
3/32	1/2	3/8	17/64	13/32	2 3/4	374003	199.35	374103	215.45
1/8	5/8	1/2	19/64	13/32	3	374004	206.45	374104	222.80
5/32	3/4	1/2	23/64	13/32	3	374005	218.95	374105	236.40
3/16	7/8	3/4	13/32	13/32	3 1/4	374006	231.65	374106	250.10
1/4	1	3/4	13/32	15/32	3 1/4	374008	264.00	374108	285.00
5/16	1 1/8	7/8	13/32	19/32	3 1/2	374010	271.20	374110	292.85
3/8	1 1/4	7/8	13/32	25/32	3 3/4	374012	281.70	374112	304.30
7/16	1 3/8	1	13/32	7/8	4	374014	313.75	374114	338.85
1/2	1 1/2	1	13/32	1	4	374016	349.10	374116	377.25
5/8	2	1 1/4	21/32	1 7/32	4 1/4	374020	429.65	374120	464.10

Carbide tips brazed to hardened alloy steel bodies. All sizes have three flutes and are used to mill round corners on square edges.



CARBIDE TIPPED CENTER CUTTING END MILLS

TYPE 3318 - 25° RIGHT SPIRAL FLUTES - FOR NON-FERROUS & CAST IRON

Flute long carbide tips brazed to hardened alloy steel bodies.



TOOL DIAMETER		SHANK DIAM.	NO. OF FLUTES	CARBIDE TIP LENGTH	OVER ALL LEN.	TYPE 3318 - 25° RIGHT SPIRAL	
DECIMAL	FRAC.					EDP NO.	PRICE EACH
.5000	1/2	1/2	2	1	3	331816	\$276.75
.6250	5/8	5/8	2	1 1/4	3 3/8	331820	309.35
.7500	3/4	3/4	2	1 1/4	3 3/8	331824	327.80
.8750	7/8	7/8	2	1 1/2	3 3/4	331828	360.55
1.0000	1	1	2	1 1/2	4	331832	414.30
1.2500	1 1/4	1 1/4	2	1 3/4	4 1/4	331840	563.15
1.5000	1 1/2	1 1/2	2	2	4 3/4	331848	657.10

TYPE 3314 - THREE STRAIGHT FLUTES - FOR NON-FERROUS & CAST IRON

TYPE 3312 - THREE STRAIGHT FLUTES - FOR STEEL

Flute long carbide tips brazed to hardened alloy steel bodies.



ALL TYPES:

One flute is center cutting.

Straight shanks with drive flats.

Tool diameter tolerance: +.002"/-.000".

For plunge and side cut milling at moderate feeds and speeds.

TOOL DIAMETER		SHANK DIAM.	NO. OF FLUTES	CARBIDE TIP LENGTH	OVERALL LENGTH	TYPE 3314 - FOR NON-FERR. & C.I.		TYPE 3312 - FOR STEEL	
DECIMAL	FRAC.					EDP NO.	PRICE EACH	EDP NO.	PRICE EACH
.3750	3/8	3/8	3	1/2	2 1/2	331412	\$165.50	331212	\$172.00
.4375	7/16	3/8	3	3/4	2 1/2	331414	169.20	331214	175.85
.5000	1/2	1/2	3	3/4	3	331416	173.65	331216	180.15
.5625	9/16	1/2	3	3/4	3	331418	180.30	331218	187.35
.6250	5/8	5/8	3	3/4	3 1/4	331420	211.10	331220	219.00
.7500	3/4	5/8	3	3/4	3 3/8	331424	220.85	331224	229.35
.8750	7/8	7/8	3	3/4	3 3/4	331428	257.80	331228	267.80
1.0000	1	7/8	3	3/4	3 3/4	331432	283.20	331232	294.15
1.1250	1 1/8	1	3	3/4	4	331436	303.40	331236	314.85
1.2500	1 1/4	1	3	3/4	4	331440	351.45	331240	365.15
1.5000	1 1/2	1 1/4	3	3/4	4	331448	417.90	331248	434.00

CARBIDE TIPPED BRIDGEPORT/REDUCED SHANK END MILLS

TYPE 3323 - 15° RIGHT SPIRAL FLUTES - FOR NON-FERROUS & CAST IRON

TYPE 3353 - 15° RIGHT SPIRAL FLUTES - FOR STEEL

Flute long carbide tips brazed to hardened alloy steel bodies.

The large capacity 15° spiral flutes permit easy chip flow.
3/4" shank designed for use on Bridgeport style machines.



TOOL DIAMETER		SHANK DIAM.	CARBIDE TIP LENGTH	OVER ALL LENGTH	NO. OF FLUTES	N-F/C.I. TYPE 3323 EDP NO.	STEEL TYPE 3353 EDP NO.	BOTH TYPES PRICE
DECIMAL	FRAC.							
.7500	3/4	3/4	1 1/4	3 3/8	4	332324	335324	\$211.60
.8750	7/8	3/4	1 1/2	3 3/4	4	332328	335328	242.30
1.0000	1	3/4	1 1/2	4	6	332332	335332	339.90
1.1250	1 1/8	3/4	1 3/4	4 1/4	6	332336	335336	399.85
1.2500	1 1/4	3/4	1 3/4	4 1/4	6	332340	335340	458.35
1.5000	1 1/2	3/4	2	4 1/2	6	332348	335348	527.40

CARBIDE TIPPED CNC FINISHING END MILLS

TYPE 3322 - 15° RIGHT SPIRAL FLUTES - FOR NON-FERROUS & CAST IRON

TYPE 3355 - 15° RIGHT SPIRAL FLUTES - FOR STEEL

Flute long carbide tips brazed to hardened alloy steel bodies.

CNC qualified edge provides for accurate and consistent resharpener. Carbide grade and tool geometry appropriate for material being machined.



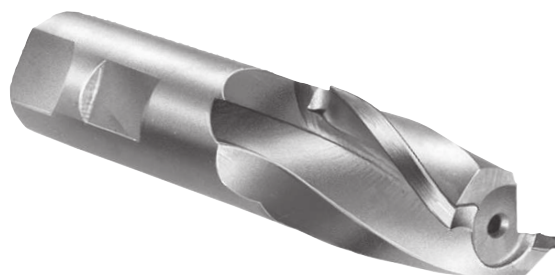
TOOL DIAMETER		SHANK DIAM.	CARBIDE TIP LENGTH	OVER ALL LENGTH	NO. OF FLUTES	N-F/C.I. TYPE 3322 EDP NO.	STEEL TYPE 3355 EDP NO.	BOTH TYPES PRICE
DECIMAL	FRAC.							
.5000	1/2	1/2	1	3	4	332216	335516	\$187.55
.6250	5/8	5/8	1 1/4	3 3/8	4	332220	335520	216.60
.7500	3/4	5/8	1 1/4	3 3/8	4	332224	335524	241.25
1.0000	1	1	1 1/2	4	6	332232	335532	387.35
1.1250	1 1/8	1	1 3/4	4 1/4	6	332236	335536	455.80
1.2500	1 1/4	1	1 3/4	4 1/4	6	332240	335540	522.55
1.5000	1 1/2	1 1/4	2	4 1/2	6	332248	335548	601.25
1.7500	1 3/4	1 1/4	2	4 1/2	8	332256	335556	756.30
2.0000	2	1 1/4	2	4 1/2	8	332264	335564	854.35

CARBIDE TIPPED CNC HIGH PERFORMANCE END MILLS

TYPE 3337 - 25° RIGHT SPIRAL FLUTES - FOR ALUMINUM & OTHER NON-FERROUS

Flute long carbide tips brazed to hardened alloy steel bodies.

High helix, high performance open flute design for high speed non-ferrous metal removal. CNC qualified edge provides for accurate and consistent resharpener.

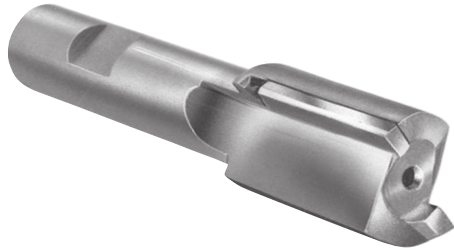


TOOL DIAMETER		SHANK DIAM.	CARBIDE TIP LENGTH	OVER ALL LENGTH	NO. OF FLUTES	NON-FERR. TYPE 3337 EDP NO.	PRICE EACH
DECIMAL	FRAC.						
.5000	1/2	1/2	1	3	2	333716	\$187.55
.6250	5/8	5/8	1 1/4	3 3/8	2	333720	216.60
.7500	3/4	5/8	1 1/4	3 3/8	2	333724	241.25
1.0000	1	1	1 1/2	4	2	333732	319.05
1.2500	1 1/4	1	1 3/4	4 1/4	3	333740	463.30
1.5000	1 1/2	1 1/4	2	4 1/2	3	333748	561.25
2.0000	2	1 1/4	2	4 1/2	3	333764	819.80

CARBIDE TIPPED END MILLS - FOR STEEL

TYPE 3300 - TWO STRAIGHT FLUTES

Flute long carbide tips brazed to hardened alloy steel bodies.
Large flute capacity for easier chip removal.



TYPE 3308 - 6° RIGHT SPIRAL FLUTES

Flute long carbide tips brazed to hardened alloy steel bodies.
Spiral flutes help remove chips, permitting faster speeds and higher feed rate. Produces better finish.



TOOL DIAMETER		SHANK DIAM.	CARB. TIP LEN.	OVER ALL LEN.	TYPE 3300 - STRAIGHT FLUTES			TYPE 3308 OR TYPE 3310 - 6° SPIRAL FLUTES			
DEC.	FRAC.				NO. OF FLTS.	EDP NO.	PRICE EACH	NO. OF FLTS.	TYPE 3308 RIGHT EDP NO.	TYPE 3310 LEFT EDP NO.	BOTH TYPES PRICE
.2500	1/4	3/8	1/2	2 1/2	2	330008	\$103.40	2	330808	331008	\$106.45
.3125	5/16	3/8	5/8	2 1/2	2	330010	107.75	2	330810	331010	114.85
.3750	3/8	3/8	5/8	2 1/2	2	330012	115.00	2	330812	331012	121.70
.4375	7/16	3/8	1	2 1/16	2	330014	115.00	2	330814	331014	121.70
.5000	1/2	1/2	1	3 1/4	2	330016	117.65	4	330816	331016	131.10
.5625	9/16	1/2	1	3 3/8	2	330018	130.50	4	330818	331018	140.90
.6250	5/8	1/2	1	3 3/8	2	330020	130.50	4	330820	331020	173.90
.7500	3/4	5/8	1	3 3/8	2	330024	146.45	4	330824	331024	193.70
.8750	7/8	5/8	1 1/4	4	2	330028	173.05	4	330828	331028	233.40
1.0000	1	7/8	1 1/4	4	2	330032	191.20	6	330832	331032	268.30
1.1250	1 1/8	1	1 1/4	4 1/4	2	330036	195.90	6	330836	331036	284.55
1.2500	1 1/4	1	1 1/4	4 1/4	2	330040	218.40	6	330840	331040	343.90
1.5000	1 1/2	1 1/4	1 1/2	4 1/2	2	330048	281.30	6	330848	331048	418.20
1.7500	1 3/4	1 1/4	1 1/2	4 1/2	2	330056	315.50	8	330856	331056	503.65
2.0000	2	1 1/4	1 1/2	4 1/2	2	330064	376.70	8	330864	331064	562.25

TYPE 3310 - 6° LEFT SPIRAL FLUTES

Flute long carbide tips brazed to hardened alloy steel bodies.

The left spiral flutes help absorb the impact shock on entering steel while maintaining constant pressure on the work piece. For milling all types of steel, including hardened steel and other tough steel alloys.



TYPE 3350 - 15° RIGHT SPIRAL FLUTES

Flute long carbide tips brazed to hardened alloy steel bodies.

For milling all types of steel. The large capacity of the 15° spiral flutes permits faster chip removal while allowing smoother finishes. The high spiral provides longer tool life.

Also available in 3/4" shank diameter, see pg. 30.

ALL TYPES:

Radial edged tool diameter tolerance: +.002"/-.000".

Shank diameter tolerance: -.0001"/-.0005".

Straight shanks with drive flats.

All End Mills are radial edged; see page 33 for descriptions.

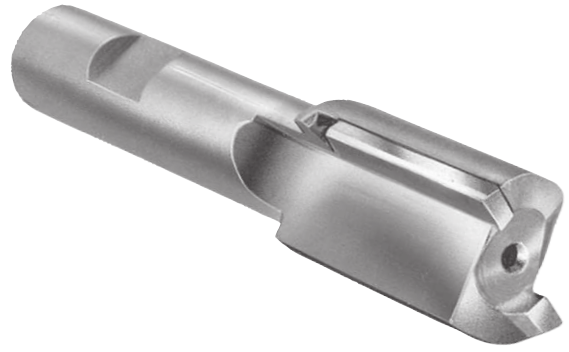
TOOL DIAMETER		SHANK DIAM.	CARB. TIP LEN.	OVER ALL LEN.	TYPE 3350 - 15° RIGHT SPIRAL		
DECIMAL	FRAC.				NO. OF FLTS.	EDP NO.	PRICE EACH
.5000	1/2	3/8	1	3	4	335016	\$164.50
.5000	1/2	1/2	1	3	4	335017	164.50
.5625	9/16	1/2	1	3	4	335018	176.70
.6250	5/8	1/2	1 1/4	3 1/4	4	335020	190.20
.6250	5/8	5/8	1 1/4	3 3/8	4	335021	190.20
.6875	11/16	1/2	1 1/4	3 1/4	4	335022	198.15
.6875	11/16	5/8	1 1/4	3 3/8	4	335023	198.15
.7500	3/4	1/2	1 1/4	3 1/4	4	335024	211.60
.7500	3/4	5/8	1 1/4	3 3/8	4	335025	211.60
.8125	13/16	5/8	1 1/2	3 5/8	4	335026	228.30
.8750	7/8	5/8	1 1/2	3 5/8	4	335028	242.30
.8750	7/8	7/8	1 1/2	3 3/4	4	335029	242.30

TOOL DIAMETER		SHANK DIAM.	CARB. TIP LEN.	OVER ALL LEN.	TYPE 3350 - 15° RIGHT SPIRAL		
DECIMAL	FRAC.				NO. OF FLTS.	EDP NO.	PRICE EACH
.9375	15/16	5/8	1 1/2	3 3/4	4	335030	\$358.95
.9375	15/16	7/8	1 1/2	3 3/4	4	335031	358.95
1.0000	1	7/8	1 1/2	3 3/4	6	335032	339.90
1.0000	1	1	1 1/2	4	6	335033	339.90
1.1250	1 1/8	1	1 3/4	4 1/4	6	335036	400.00
1.2500	1 1/4	1	1 3/4	4 1/4	6	335040	458.45
1.3750	1 3/8	1	1 3/4	4 1/4	6	335044	535.65
1.5000	1 1/2	1 1/4	2	4 1/2	6	335048	527.55
1.6250	1 5/8	1 1/4	2	4 1/2	8	335052	703.30
1.7500	1 3/4	1 1/4	2	4 1/2	8	335056	750.10
1.8750	1 7/8	1 1/4	2	4 1/2	8	335060	802.20
2.0000	2	1 1/4	2	4 1/2	8	335064	847.15

CARBIDE TIPPED END MILLS - FOR NON-FERROUS & CAST IRON

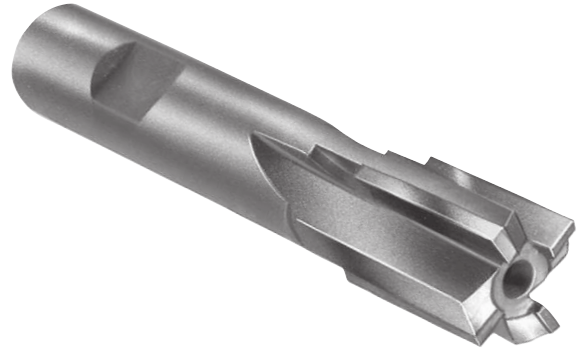
TYPE 3302 - TWO STRAIGHT FLUTES - RADIAL EDGED

Flute long carbide tips brazed to hardened alloy steel bodies.
Large flute capacity for easier chip removal.



TYPE 3304 - FOUR/SIX STRAIGHT FLUTES - RADIAL EDGED

Flute long carbide tips brazed to hardened alloy steel bodies.
Best when machine horsepower allows a higher capacity end mill.



TYPE 3305 - FOUR STRAIGHT FLUTES - UPSHARP

Flute long carbide tips brazed to hardened alloy steel bodies.
Reduced horsepower requirements in a high capacity end mill.



TYPE 3306 - 6° RIGHT SPIRAL FLUTES - RADIAL EDGED

Flute long carbide tips brazed to hardened alloy steel bodies.
Spiral flutes help remove chips, permitting faster speeds and heavier feeds. Produces better finish.

TYPE 3307 - 6° RIGHT SPIRAL FLUTES - UPSHARP

Flute long carbide tips brazed to hardened alloy steel bodies.
Spiral flutes help remove chips which permits heavier feeds and faster speeds. Ideal for zinc and aluminum.

ALL TYPES:

Radial edged tool diameter tolerance: $\pm .002"/- .000"$.

Upsharp tool diameter tolerance: $\pm .005"/- .000"$.

Shank diameter tolerance: $\pm .0001"/- .0005"$.

Straight shanks with drive flats.

For radial edged and upsharp descriptions, see page 33.

TOOL DIAMETER		SHANK DIAM.	CARB. TIP LEN.	OVER ALL LEN.	TYPE 3302 - STR. FLTS.			TYPE 3304 - FOUR/SIX STR. FLTS.			TYPE 3305 - FOUR STR. FLTS.			TYPE 3306 - 6° RIGHT SPIRAL			TYPE 3307 - 6° RIGHT SPIRAL		
DECIMAL	FRACTION				NO. OF FLTS.	EDP NO.	PRICE EACH	NO. OF FLTS.	EDP NO.	PRICE EACH	NO. OF FLTS.	EDP NO.	PRICE EACH	NO. OF FLTS.	EDP NO.	PRICE EACH	NO. OF FLTS.	EDP NO.	PRICE EACH
.2500	1/4	3/8	1/2	2 1/2	2	330208	\$89.95	4	330408	\$90.80	4	330508	\$90.80	2	330608	\$92.00	2	330708	\$97.50
.3125	5/16	3/8	5/8	2 1/2	2	330210	93.35	4	330410	97.00	-	-	-	2	330610	95.25	-	-	-
.3750	3/8	3/8	5/8	2 1/2	2	330212	100.15	4	330412	102.20	-	-	-	2	330612	102.00	-	-	-
.4375	7/16	3/8	1	2 1/16	2	330214	100.15	4	330414	102.20	4	330514	98.35	2	330614	102.00	2	330714	108.10
.5000	1/2	1/2	1	3 1/4	2	330216	102.65	4	330416	104.65	4	330516	104.50	2	330616	104.70	2	330716	110.85
.5625	9/16	1/2	1	3 3/8	2	330218	113.50	4	330418	117.50	4	330518	117.25	2	330618	115.95	2	330718	122.60
.6250	5/8	1/2	1	3 3/8	2	330220	113.50	4	330420	123.00	4	330520	122.85	4	330620	120.45	4	330720	127.45
.6875	11/16	5/8	1	3 3/8	2	330222	122.85	4	330422	135.40	4	330522	135.10	-	-	-	-	-	-
.7500	3/4	5/8	1	3 5/8	2	330224	127.45	4	330424	126.65	4	330524	140.30	4	330624	137.60	4	330724	145.55
.8125	13/16	5/8	1	3 5/8	2	330226	154.05	4	330426	149.60	4	330526	160.55	-	-	-	-	-	-
.8750	7/8	5/8	1 1/4	4	2	330228	155.05	4	330428	149.60	4	330528	166.10	4	330628	183.95	4	330728	194.90
.9375	15/16	7/8	1 1/4	4	2	330230	166.10	4	330430	166.15	4	330530	176.70	-	-	-	-	-	-
1.0000	1	7/8	1 1/4	4	2	330232	166.45	4	330432	172.80	4	330532	191.65	4	330632	212.50	4	330732	225.05
1.1250	1 1/8	1	1 1/4	4 1/4	2	330236	170.85	4	330436	196.05	4	330536	217.10	4	330636	241.00	-	-	-
1.2500	1 1/4	1	1 1/4	4 1/4	2	330240	206.00	4	330440	220.45	4	330540	244.20	4	330640	270.85	4	330740	286.35
1.5000	1 1/2	1 1/4	1 1/2	4 1/2	2	330248	255.15	4	330448	284.20	4	330548	302.50	4	330648	335.30	4	330748	341.95
1.7500	1 3/4	1 1/4	1 1/2	4 1/2	2	330256	302.50	6	330456	366.30	-	-	-	6	330656	432.80	-	-	-
2.0000	2	1 1/4	1 1/2	4 1/2	2	330264	337.40	6	330464	422.00	-	-	-	6	330664	498.35	6	330764	507.90

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CARBIDE TIPPED END MILLS - FOR NON-FERROUS & CAST IRON

TYPE 3320 - 15° RIGHT SPIRAL FLUTES - RADIAL EDGED

Flute long carbide tips brazed to hardened alloy steel bodies.

For milling primarily cast iron and malleable iron. However, they can be used on other materials *except steel*. The large capacity of the 15° spiral flutes permits faster chip removal while allowing smoother finishes. Also the high spiral provides longer tool life. More flutes than Type 3375 for use where less feed rate per flute is required but table feed is maintained for same productivity.

Also available in 3/4" shank diameter, see pg. 30.

TYPE 3375 - 15° RIGHT SPIRAL FLUTES - RADIAL EDGED

Same as Type 3320, except less flutes.

TYPE 3325 - 25° RIGHT SPIRAL FLUTES - RADIAL EDGED

Flute long carbide tips brazed to hardened alloy steel bodies.

For milling all types of non-ferrous metals and non-metals. The large capacity of the 25° spiral flutes permits faster chip removal while allowing smoother finishes. Also the high spiral provides longer tool life.

TYPE 3327 - 25° RIGHT SPIRAL FLUTES - UPSHARP

Flute long carbide tips brazed to hardened alloy steel bodies.

For high speed milling of aluminum, plastics, and other soft non-ferrous materials.

UPSHARP END MILLS:

These tools are manufactured with sharp cutting edges on the periphery and permit maximum metal removal with less horsepower.

RADIAL EDGED END MILLS:

These tools are manufactured with a precise .002" to .003" radial edge on the periphery, thus eliminating the need to hand hone the feathered edge. This small margin results in a stronger cutting edge and minimizes edge chipping for longer tool life.

ALL TYPES:

Radial edged tool diameter tolerance: +.002"/-.000".

Upsharp tool diameter tolerance: +.005"/-.000".

Shank diameter tolerance: -.0001"/-.0005".

Straight shanks with drive flats.

TOOL DIAMETER		SHANK DIAM.	CARB. TIP LEN.	OVER ALL LEN.	TYPE 3320 - 15° RIGHT SPIRAL			TYPE 3375 - 15° RIGHT SPIRAL			TYPE 3327 OR TYPE 3325 - 25° RIGHT SPIRAL			
DECIMAL	FRAC.				NO. OF FLUTES	EDP NO.	PRICE EACH	NO. OF FLUTES	EDP NO.	PRICE EACH	NO. OF FLUTES	TYPE 3327 EDP NO.	TYPE 3325 EDP NO.	PRICE EACH
.5000	1/2	3/8	1	3	-	-	-	2	337516	\$151.60	2	-	332516	\$164.50
.5000	1/2	1/2	1	3	4	332017	\$164.50	2	337517	151.60	2	-	332517	164.50
.5625	9/16	1/2	1	3	-	-	-	2	337518	163.00	2	-	332518	176.70
.6250	5/8	1/2	1 1/4	3 1/4	-	-	-	2	337520	175.15	2	-	332520	190.20
.6250	5/8	5/8	1 1/4	3 3/8	4	332021	190.20	2	337521	175.15	2	332721	332521	190.20
.6875	11/16	1/2	1 1/4	3 1/4	-	-	-	2	337522	182.65	2	-	332522	198.15
.6875	11/16	5/8	1 1/4	3 3/8	4	332023	198.15	2	337523	182.65	2	-	332523	198.15
.7500	3/4	1/2	1 1/4	3 1/4	-	-	-	2	337524	194.95	2	332724	332524	211.60
.7500	3/4	5/8	1 1/4	3 3/8	4	332025	211.60	2	337525	194.95	2	332725	332525	211.60
.8125	13/16	5/8	1 1/2	3 5/8	4	332026	228.30	2	337526	210.40	2	332726	332526	228.30
.8750	7/8	5/8	1 1/2	3 5/8	-	-	-	2	337528	223.40	2	-	332528	242.30
.8750	7/8	7/8	1 1/2	3 3/4	4	332029	242.30	2	337529	223.40	2	-	332529	242.30
.9375	15/16	5/8	1 1/2	3 3/4	-	-	-	3	337530	330.75	2	-	332530	274.15
.9375	15/16	7/8	1 1/2	3 3/4	-	-	-	3	337531	330.75	2	-	332531	274.15
1.0000	1	7/8	1 1/2	3 3/4	-	-	-	3	337532	313.05	2	332732	332532	279.80
1.0000	1	1	1 1/2	4	6	332033	339.90	3	337533	313.05	2	332733	332533	279.80
1.1250	1 1/8	1	1 3/4	4 1/4	6	332036	400.00	3	337536	368.70	2	-	332536	306.40
1.2500	1 1/4	1	1 3/4	4 1/4	6	332040	458.45	4	337540	422.55	3	332740	332540	406.35
1.3750	1 3/8	1	1 3/4	4 1/4	6	332044	535.65	4	337544	493.35	3	332744	332544	440.60
1.5000	1 1/2	1 1/4	2	4 1/2	6	332048	527.55	4	337548	486.20	3	332748	332548	492.10
1.6250	1 5/8	1 1/4	2	4 1/2	-	-	-	4	337552	594.60	3	-	332552	582.40
1.7500	1 3/4	1 1/4	2	4 1/2	8	332056	663.30	4	337556	634.05	3	-	332556	624.90
1.8750	1 7/8	1 1/4	2	4 1/2	-	-	-	4	337560	678.20	3	-	332560	672.70
2.0000	2	1 1/4	2	4 1/2	8	332064	749.50	4	337564	716.40	3	332764	332564	719.10

CARBIDE TIPPED PORT CONTOUR CUTTERS

ISO 6149-1 METRIC PORTS - WITHOUT I.D. GROOVE

TYPE 3786 - STRAIGHT SHANK - FOR NON-FERROUS & CAST IRON

TYPE 3787 - STRAIGHT SHANK - FOR STEEL

Carbide tips brazed to one piece heat treated steel bodies.

In a single operation, a port contour cutter can produce the form and finish required on internal straight thread o-ring ports. . All tolerances are within military specifications. All are manufactured with negative radial rake and 5° axial rake.



THREAD SIZE	DIMENSIONS									N-F/CI TYPE 3786 EDP NO.	STEEL TYPE 3787 EDP NO.	BOTH TYPES PRICE
	DIAMETER			TAPER SHANK NO.	SEALING SEAT ANGLE	LENGTH						
	REAMER	SPOTFACE	SHANK			SHANK	REAMER	HEAD	OVERALL			
M 8X1	.2770	.6690	.5000	3	12°	2	.4530	1 ⅝	3 ⅝	3786080	3787080	\$601.00
M 10X1	.3560	.7870	.5000	3	12°	2	.4530	1 ¼	3 ¼	3786100	3787100	601.00
M 12X1.5	.4150	.9060	.5000	3	15°	2	.5510	1 ¼	3 ¼	3786120	3787120	629.50
M 14X1.5	.4930	.9840	.5000	3	15°	2	.5510	1 ¼	3 ¼	3786140	3787140	629.50
M 16X1.5	.5720	1.1020	.5000	3	15°	2	.6100	1 ¼	3 ¼	3786160	3787160	693.15
M 18X1.5	.6510	1.1810	.7500	3	15°	2	.6690	1 ⅜	3 ⅜	3786180	3787180	693.15
M 20X1.5	.7300	1.2600	.7500	3	15°	2	.6890	1 ⅜	3 ⅜	3786200	3787200	719.95
M 22X1.5	.8080	1.3390	.7500	3	15°	2	.7090	1 ⅝	3 ⅝	3786220	3787220	746.60
M 27X2	.9850	1.5750	.7500	3	15°	2 ¼	.8660	1 ⅞	4 ⅞	3786270	3787270	807.05
M 33X2	1.2210	1.9290	.7500	3	15°	2 ¼	.8660	1 ⅞	4 ⅞	3786330	3787330	928.30
M 42X2	1.5760	2.3620	1.0000	3	15°	2 ¼	.8860	1 ⅞	4 ⅞	3786420	3787420	1014.40
M 48X2	1.8120	2.5890	1.0000	4	15°	2 ¼	.9840	2	4 ¼	3786480	3787480	1072.45

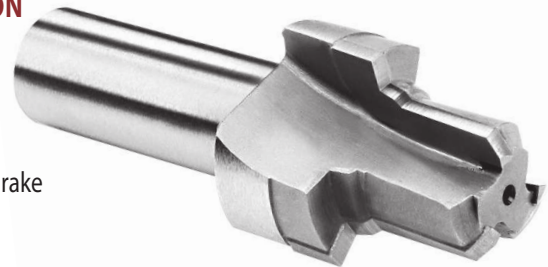
S.A.E. PORTS - MS16142 - J514F - J1926

TYPE 3780 - STRAIGHT SHANK - FOR NON-FERROUS & CAST IRON

TYPE 3781 - STRAIGHT SHANK - FOR STEEL

Carbide tips brazed to one piece heat treated steel bodies.

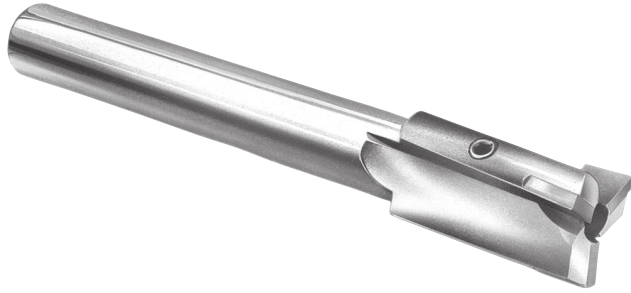
In a single operation, a port contour cutter can produce the form and finish required on internal straight thread o-ring ports. All tolerances are within military specifications. All are manufactured with negative radial rake and 5° axial rake.



TUBE		DIMENSIONS									N-F/CI TYPE 3780 EDP NO.	STEEL TYPE 3781 EDP NO.	BOTH TYPES PRICE
NO.	SIZE	THREAD SIZE	DIAMETER			SEALING SEAT ANGLE	LENGTH						
			REAMER	SPOTFACE	SHANK		SHANK	REAMER	HEAD	OVERALL			
2	⅛	⅝-24	.2720	.6820	.5000	12°	2	.4730	1 ⅛	3 ⅛	378002	378102	\$559.00
3	⅜	¾-24	.3350	.7600	.5000	12°	2	.4730	1 ¼	3 ¼	378003	378103	559.00
4	¼	7/16-20	.3890	.8380	.5000	12°	2	.5520	1 ¼	3 ¼	378004	378104	559.00
5	⅝	½-20	.4520	.9160	.5000	12°	2	.5520	1 ¼	3 ¼	378005	378105	576.65
6	⅜	⅝-18	.5090	.9790	.5000	12°	2	.6140	1 ¼	3 ¼	378006	378106	576.65
8	½	¾-16	.6890	1.1980	.7500	15°	2	.6930	1 ⅜	3 ⅜	378008	378108	631.10
10	⅝	7/8-14	.8060	1.3540	.7500	15°	2	.7860	1 ⅝	3 ⅝	378010	378110	713.75
12	¾	1 ⅛-12	.9810	1.6350	.7500	15°	2 ¼	.9110	1 ⅞	4 ⅞	378012	378112	769.95
14	⅞	1 ⅜-12	1.1060	1.7750	.7500	15°	2 ¼	.9110	1 ⅞	4 ⅞	378014	378114	782.40
16	1	1 ⅝-12	1.2310	1.9200	.7500	15°	2 ¼	.9110	1 ⅞	4 ⅞	378016	378116	842.10
20	1 ¼	1 ⅞-12	1.5440	2.2800	1.0000	15°	2 ¼	.9110	2	4 ¼	378020	378120	927.70
24	1 ½	1 ⅞-12	1.7940	2.5700	1.0000	15°	2 ¼	.9110	2	4 ¼	378024	378124	1140.90

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FEEDS & SPEEDS CHART FOR COUNTERBORES



Feeds & speeds are a starting recommendation only. Factors such as machine, fixture and tooling rigidity, horsepower available, coolant application and others will affect the performance significantly. Please read machine operators instructions and use all safety shields and glasses before performing these operations.

RPM=SFPM*3.82/Cutter Diameter

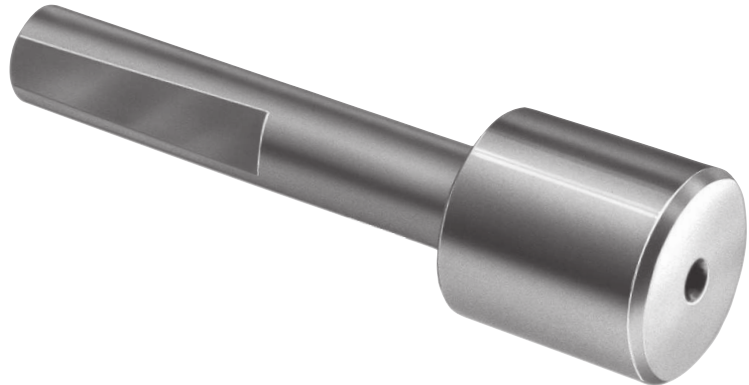
CLASSIFICATION	MATERIAL	COUNTERBORING		FEED RATE (INCHES PER REVOLUTION) FINISHED HOLE DIAMETER IN INCHES					
		BRINELL	SFPM	¼	½	¾	1	1 ½	2
NON-FERROUS (SOFT)	ALUMINUM ALLOY - WROUGHT	30-150*	750-900	.006	.006	.007	.007	.009	.010
	MAGNESIUM ALLOY	50-90*	875-1000	.006	.006	.007	.007	.009	.010
	LEAD	10-20*	875-1000	.006	.006	.007	.007	.009	.010
	NON-METAL AND PLASTIC	-	700-1200	.006	.006	.007	.007	.009	.010
	ZINC ALLOY - DIE CAST	80-100	700-850	.005	.005	.006	.006	.007	.009
NON-FERROUS (HARD)	ALUMINUM BRONZE	40-175	700-850	.006	.006	.007	.007	.009	.010
	BRASS ALLOY - LEADED AND FREE CUTTING	10-100Rb	850-1000	.006	.006	.007	.007	.009	.010
	CHROMIUM - NICKEL	10-100Rb	75-85	.003	.003	.003	.003	.004	.005
	COPPER ALLOY - TOUGH	40-200*	275-350	.005	.005	.006	.006	.007	.009
CAST IRON	DUCTILE CAST IRON - AUSTENITIC	120-275	85-110	.002	.002	.002	.002	.003	.004
	DUCTILE CAST IRON - FERRITIC	140-270	200-250	.006	.006	.007	.007	.009	.010
	DUCTILE CAST IRON - MARTENSITIC	270-400	75-95	.002	.002	.002	.002	.003	.004
	GRAY - PEARLITIC	220-320	125-200	.004	.004	.004	.005	.006	.007
	GRAY - FERRITIC	110-240	200-250	.004	.004	.004	.005	.006	.007
	MALLEABLE CAST IRON - MARTENSITIC	200-320	60-85	.004	.004	.004	.005	.006	.007
LOW CARBON STEELS	LOW AND MEDIUM CARBON STEEL - FREE MACHINING	100-250	200-250	.006	.006	.007	.007	.009	.010
	LOW AND MEDIUM CARBON STEEL - WROUGHT	100-375	150-200	.006	.006	.007	.007	.009	.010
MEDIUM STRENGTH STEELS	LOW AND MEDIUM CARBON ALLOY STEEL - FREE MACHINING	100-275	145-185	.004	.004	.004	.005	.006	.007
	LOW AND MEDIUM CARBON ALLOY STEEL	85-375	130-165	.004	.004	.004	.005	.006	.007
	STAINLESS STEEL - 400 SERIES	135-325	150-200	.003	.003	.003	.003	.004	.005
	STAINLESS STEEL - 400 SERIES FREE MACHINING	135-275	155-205	.003	.003	.003	.003	.004	.005
HIGH STRENGTH STEELS	HIGH STRENGTH STEEL - WROUGHT & TOOL STEEL	175-400	90-135	.002	.002	.002	.002	.003	.003
HIGH TEMP. ALLOYS	HIGH TEMP ALLOYS NICKEL & IRON BASE ALLOY	140-300	40-65	.002	.002	.002	.002	.003	.003
	STAINLESS STEEL - 300 SERIES	135-375	150-300	.003	.003	.003	.003	.004	.005
	STAINLESS STEEL - PH SERIES	150-440	115-175	.003	.003	.003	.003	.004	.005
	TITANIUM ALLOY	110-380	125-175	.002	.002	.002	.002	.003	.003

INTERCHANGEABLE COUNTERBORE PILOTS

TYPE 3500 - CARBON STEEL - SHORT SHANK

For use with our carbide tipped counterbores (pages 38-47).

The shank diameter must be the same as the pilot hole diameter in the counterbore. The pilot head diameter is always larger than the shank diameter and is determined by part to be machined.



PILOT HEAD DIAMETER	TOLERANCE
1/8" THRU 1/4"	-.001"/-.002"
OVER 1/4" THRU 7/8"	-.003"/-.004"
OVER 7/8" THRU 1 1/4"	-.005"/-.006"
OVER 1 1/4"	-.006"/-.007"

Shank diameter tolerance: +.0000"/-.0005".

PILOT HEAD DIAMETER		SHANK DIAMETER									ALL TYPES PRICE	PRICE EACH - PILOT HEAD DIAMETER FINISHED TO DECIMAL SIZE					
		³ / ₃₂ .0938 EDP NO.	¹ / ₈ .1250 EDP NO.	⁵ / ₃₂ .1562 EDP NO.	³ / ₁₆ .1875 EDP NO.	¹ / ₄ .2500 EDP NO.	⁵ / ₁₆ .3125 EDP NO.	³ / ₈ .3750 EDP NO.	⁷ / ₁₆ .4375 EDP NO.	¹ / ₂ .5000 EDP NO.		1 PC.	2 PC.	3 PC.	4 PC.	5-7	8+
.1250	¹ / ₈	350104	-	-	-	-	-	-	-	-	\$38.90	\$154.50	\$96.75	\$77.50	\$68.00	\$58.20	\$50.15
.1562	⁵ / ₃₂	350105	350205	-	-	-	-	-	-	-	31.55	147.05	89.45	70.10	60.40	50.90	42.85
.1875	³ / ₁₆	350106	350206	350306	-	-	-	-	-	-	32.20	147.70	90.00	70.75	61.20	51.35	43.40
.2188	⁷ / ₃₂	350107	350207	350307	350407	-	-	-	-	-	36.45	152.05	94.20	74.85	65.55	55.80	47.75
.2500	¹ / ₄	350108	350208	350308	350408	-	-	-	-	-	36.45	152.05	94.20	74.85	65.55	55.80	47.75
.2812	⁹ / ₃₂	350109	350209	350309	350409	350509	-	-	-	-	38.90	154.50	96.75	77.50	68.00	58.20	50.15
.3125	⁵ / ₁₆	350110	350210	350310	350410	350510	-	-	-	-	38.90	154.50	96.75	77.50	68.00	58.20	50.15
.3438	¹¹ / ₃₂	350111	350211	350311	350411	350511	350611	-	-	-	38.90	154.50	96.75	77.50	68.00	58.20	50.15
.3750	³ / ₈	-	350212	350312	350412	350512	350612	-	-	-	42.85	158.50	100.70	81.40	71.75	62.15	54.25
.4062	¹³ / ₃₂	-	350213	350313	350413	350513	350613	-	-	-	42.85	158.50	100.70	81.40	71.75	62.15	54.25
.4375	⁷ / ₁₆	-	350214	350314	350414	350514	350614	350714	-	-	43.85	159.40	101.65	82.45	72.75	63.20	55.15
.4688	¹⁵ / ₃₂	-	350215	-	350415	350515	350615	-	-	-	43.85	159.40	101.65	82.45	72.75	63.20	55.15
.5000	¹ / ₂	-	350216	-	350416	350516	350616	350716	350816	-	50.15	165.90	108.05	88.70	79.45	69.55	61.60
.5312	¹⁷ / ₃₂	-	350217	-	350417	350517	350617	-	350817	-	58.50	174.10	116.40	97.25	87.60	77.85	69.95
.5625	⁹ / ₁₆	-	350218	-	350418	350518	350618	350718	350818	350918	65.70	181.35	123.55	104.25	94.90	85.10	77.10
.5938	¹⁹ / ₃₂	-	350219	-	-	350519	350619	-	350819	350919	72.20	187.75	130.00	110.70	101.05	91.35	83.50
.6250	⁵ / ₈	-	350220	-	350420	350520	350620	350720	350820	350920	72.20	187.75	130.00	110.70	101.05	91.35	83.50
.6562	²¹ / ₃₂	-	-	-	350421	350521	350621	-	350821	-	73.90	189.50	131.60	112.40	102.95	93.20	85.15
.6875	¹¹ / ₁₆	-	-	-	350422	350522	350622	350722	350822	350922	73.90	189.50	131.60	112.40	102.95	93.20	85.15
.7188	²³ / ₃₂	-	-	-	-	350523	350623	-	350823	350923	83.70	199.25	141.45	122.20	112.70	102.95	95.05
.7500	³ / ₄	-	-	-	350424	350524	350624	350724	350824	350924	83.70	199.25	141.45	122.20	112.70	102.95	95.05
.7812	²⁵ / ₃₂	-	-	-	-	350525	350625	-	350825	350925	94.00	209.70	151.90	132.60	123.35	113.40	105.45
.8125	¹³ / ₁₆	-	-	-	350426	350526	350626	350726	350826	350926	94.00	209.70	151.90	132.60	123.35	113.40	105.45
.8438	²⁷ / ₃₂	-	-	-	-	350527	-	-	-	-	104.10	219.70	161.90	142.65	132.90	123.40	115.35
.8750	⁷ / ₈	-	-	-	350428	350528	350628	350728	350828	350928	104.10	219.70	161.90	142.65	132.90	123.40	115.35
.9375	¹⁵ / ₁₆	-	-	-	350430	350530	350630	350730	350830	350930	109.80	225.30	167.60	148.35	138.80	129.05	121.15
1.0000	1	-	-	-	350432	350532	350632	350732	350832	350932	113.60	229.10	171.40	152.05	142.65	132.80	124.95
1.0625	1 ¹ / ₁₆	-	-	-	-	-	350634	350734	350834	350934	117.75	233.30	175.40	156.15	146.50	137.10	129.05
1.1250	1 ¹ / ₈	-	-	-	-	-	350636	350736	350836	350936	141.90	257.50	199.70	180.30	171.00	161.10	153.25
1.1875	1 ³ / ₁₆	-	-	-	-	-	350638	350738	350838	350938	146.25	261.70	203.90	184.75	175.25	165.50	157.55
1.2500	1 ¹ / ₄	-	-	-	-	-	350640	350740	350840	350940	154.15	269.75	212.05	192.65	183.40	173.40	165.50
1.3125	1 ⁵ / ₁₆	-	-	-	-	-	-	350742	350842	350942	162.30	277.80	220.15	200.95	191.35	181.60	173.55
1.3750	1 ³ / ₈	-	-	-	-	-	350644	350744	350844	350944	177.20	293.00	235.20	216.00	206.30	196.65	188.70
1.4375	1 ⁷ / ₁₆	-	-	-	-	-	-	350746	350846	350946	179.45	294.95	237.05	217.75	208.40	198.50	190.70
1.5000	1 ¹ / ₂	-	-	-	-	-	-	-	350848	350948	181.60	297.35	239.55	220.25	210.50	201.00	193.05
1.5625	1 ⁹ / ₁₆	-	-	-	-	-	-	-	350850	350950	183.80	299.70	241.90	222.60	212.90	203.25	195.30
1.6250	1 ⁵ / ₈	-	-	-	-	-	-	-	-	350952	185.80	301.30	243.60	224.20	214.75	204.95	197.20
1.6875	1 ¹¹ / ₁₆	-	-	-	-	-	-	-	-	350954	188.30	303.75	246.00	226.60	217.20	207.35	199.55
1.7500	1 ³ / ₄	-	-	-	-	-	-	-	350856	350956	191.20	306.60	248.75	229.50	220.15	210.25	202.40
1.8750	1 ⁷ / ₈	-	-	-	-	-	-	-	-	350960	230.15	346.15	288.25	268.95	259.35	249.70	241.90
2.0000	2	-	-	-	-	-	-	-	-	350964	230.15	346.15	288.25	268.95	259.35	249.70	241.90

CARBIDE TIPPED CAPSCREW COUNTERBORES

TYPE 3513 - STRAIGHT SHANK - FOR NON-FERROUS & CAST IRON

TYPE 3515 - STRAIGHT SHANK - FOR STEEL

Carbide tips brazed to hardened alloy steel bodies. Right spiral smooth flutes. Integral pilot type.

Tools are designed with appropriate carbide grade and tool geometry for material being machined. The pilot is manufactured in nominal screw body diameters as well as 1/64" and 1/32" over size diameters.

Decimal sizes available upon request.



TOOL DIAMETER		PILOT DIAMETER	PILOT LENGTH	SHANK DIAMETER	OVERALL LENGTH	TYPE 3513 - NON-FERR/CI		PRICE EACH	TYPE 3515 - STEEL		PRICE EACH
DECIMAL	SCREW SIZE					NO. OF FLUTES	EDP NO.		NO. OF FLUTES	EDP NO.	
.3820	1/4	.2500	.3125	5/16	5 3/8	3	35132500	\$135.85	3	35152500	\$149.40
.3980	1/4	.2650	.3125	5/16	5 3/8	3	35132650	150.90	3	35152650	166.10
.4140	1/4	.2810	.3125	5/16	5 3/8	3	35132810	150.90	3	35152810	166.10
.4750	5/16	.3125	.3750	3/8	6 1/8	3	35133125	151.90	3	35153125	167.25
.4910	5/16	.3280	.3750	3/8	6 1/8	3	35133280	151.90	3	35153280	167.25
.5070	5/16	.3430	.3750	3/8	6 1/8	3	35133430	151.90	3	35153430	167.25
.5720	3/8	.3750	.5000	1/2	6 1/2	3	35133750	171.30	3	35153750	188.45
.5880	3/8	.3900	.5000	1/2	6 1/2	3	35133900	171.30	3	35153900	188.45
.6040	3/8	.4060	.5000	1/2	6 1/2	3	35134060	171.30	3	35154060	188.45
.6630	7/16	.4375	.5000	1/2	7	3	35134375	165.50	3	35154375	182.05
.6790	7/16	.4530	.5000	1/2	7	3	35134530	165.50	3	35154530	182.05
.6950	7/16	.4680	.5000	1/2	7	3	35134680	165.50	3	35154680	182.05
.7570	1/2	.5000	.5000	1/2	7 1/2	3	35135000	187.65	3	35155000	206.55
.7730	1/2	.5150	.5000	1/2	7 1/2	3	35135150	187.65	3	35155150	206.55
.7890	1/2	.5310	.5000	1/2	7 1/2	3	35135310	187.65	3	35155310	206.55
.8510	9/16	.5625	.5625	5/8	7 3/8	3	35135625	181.35	3	35155625	199.60
.8670	9/16	.5780	.5625	5/8	7 3/8	3	35135780	181.35	3	35155780	199.60
.8830	9/16	.5930	.5625	5/8	7 3/8	3	35135930	181.35	3	35155930	199.60
.9450	5/8	.6250	.6250	5/8	7 3/8	3	35136250	206.75	3	35156250	227.50
.9610	5/8	.6400	.6250	5/8	7 3/8	3	35136400	206.75	3	35156400	227.50
.9770	5/8	.6560	.6250	5/8	7 3/8	3	35136560	206.75	3	35156560	227.50
1.1330	3/4	.7500	.7500	3/4	7 3/4	3	35137500	203.80	3	35157500	224.25
1.1490	3/4	.7650	.7500	3/4	7 3/4	3	35137650	203.80	3	35157650	224.25
1.1650	3/4	.7810	.7500	3/4	7 3/4	3	35137810	203.80	3	35157810	224.25
1.3220	7/8	.8750	.8750	7/8	8 1/8	4	35138750	226.55	4	35158750	249.40
1.3380	7/8	.8910	.8750	7/8	8 1/8	4	35138910	226.55	4	35158910	249.40
1.3540	7/8	.9060	.8750	7/8	8 1/8	4	35139060	226.55	4	35159060	249.40
1.5100	1	1.0000	1.0000	1	8 1/2	4	35130000	259.45	4	35150000	285.45
1.5260	1	1.0150	1.0000	1	8 1/2	4	35130156	259.45	4	35150156	285.45
1.5420	1	1.0310	1.0000	1	8 1/2	4	35130313	259.45	4	35150313	285.45

TYPE 3513 - STRAIGHT SHANK - FOR NON-FERROUS & CAST IRON - METRIC

TYPE 3515 - STRAIGHT SHANK - FOR STEEL - METRIC

Same as above except metric sizes.

TOOL DIAMETER		PILOT DIAMETER	PILOT LENGTH	SHANK DIAMETER	OVERALL LENGTH	TYPE 3513 - NON-FERR/CI		PRICE EACH	TYPE 3515 - STEEL		PRICE EACH
SCREW SIZE mm	DECIMAL					NO. OF FLUTES	EDP NO.		NO. OF FLUTES	EDP NO.	
5	.3543	5.5	3/32	5/16	5 3/8	3	3513055	\$150.50	3	3515055	\$165.50
6	.4134	6.5	5/16	5/16	5 3/8	3	3513065	158.85	3	3515065	174.80
8	.5315	8.5	3/8	1/2	6 1/2	3	3513085	188.70	3	3515085	207.45
10	.6496	10.5	1/2	1/2	7	3	3513105	205.25	3	3515105	225.75
12	.7283	12.5	1/2	1/2	7 1/2	3	3513125	192.55	3	3515125	211.70
14	.8465	14.5	9/16	5/8	7 3/8	3	3513145	224.55	3	3515145	246.85
16	.9646	16.5	5/8	5/8	7 3/8	3	3513165	234.60	3	3515165	258.00
20	1.2008	20.5	3/4	7/8	8	3	3513205	217.60	3	3515205	239.25

CARBIDE TIPPED COUNTERBORES FOR NON-FERROUS & CAST IRON

TYPE 3512 - STRAIGHT SHANK - FOUR FLUTES

TYPE 3514 - STRAIGHT SHANK - THREE/FOUR FLUTES

Carbide tips brazed to hardened alloy steel bodies. Right spiral smooth flutes. Interchangeable pilot type.

Tools are designed with appropriate carbide grade and tool geometry for machining non-ferrous, cast iron and non-metals.



Tool diameter tolerance: +.001"/-.000".

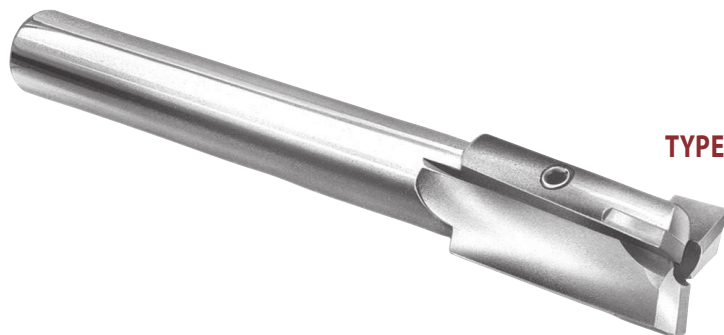
Shank diameter tolerance: +.0000"/-.0005".

TOOL DIAMETER		MIN. CUT DIAM.	PILOT HOLE DIAM.	SHANK DIAM.	OVER ALL LEN.	TYPE 3512		TYPE 3514		BOTH TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL					NO. OF FLTS.	EDP NO.	NO. OF FLTS.	EDP NO.			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.2500	1/4	.114	3/32	15/64	3 13/16	-	-	3	351408	\$116.80	.2381 - .2530	\$182.80	\$149.85	\$138.90	\$133.35	\$127.75	\$123.25
.2812	9/32	.114	3/32	17/64	3 13/16	-	-	3	351409	142.80	.2531 - .2840	208.60	175.85	164.80	159.35	153.85	149.25
.3125	5/16	.114	3/32	19/64	3 13/16	-	-	3	351410	121.85	.2841 - .3150	183.70	152.85	142.60	137.45	132.20	127.90
.3438	11/32	.114	3/32	5/16	3 13/16	-	-	3	351411	154.30	.3151 - .3470	216.05	185.05	174.80	169.70	164.50	160.10
.3750	3/8	.182	5/32	5/16	4 1/16	-	-	3	351412	129.20	.3471 - .3780	186.35	157.80	148.25	143.55	138.75	134.85
.4062	13/32	.182	5/32	3/8	4 1/16	-	-	3	351413	145.70	.3781 - .4090	202.75	174.35	164.75	160.05	155.20	151.35
.4375	7/16	.182	5/32	3/8	4 1/16	-	-	3	351414	132.60	.4091 - .4410	189.70	161.10	151.60	147.05	142.05	138.20
.4688	15/32	.228	3/16	7/16	4 5/16	-	-	3	351415	161.85	.4411 - .4720	218.95	190.35	181.00	176.30	171.30	167.45
.5000	1/2	.228	3/16	7/16	4 5/16	4	351216	3	351416	147.20	.4721 - .5030	204.20	175.55	166.25	161.40	156.65	152.80
.5312	17/32	.228	3/16	1/2	4 5/16	4	351217	3	351417	166.55	.5031 - .5340	223.60	195.20	185.65	181.00	176.05	172.15
.5625	9/16	.228	3/16	1/2	4 5/16	4	351218	3	351418	151.50	.5341 - .5660	208.60	180.00	170.55	165.70	161.05	156.95
.5938	19/32	.228	3/16	1/2	5 1/8	4	351219	3	351419	168.35	.5661 - .5970	225.35	196.85	187.40	182.65	177.75	173.90
.6250	5/8	.228	3/16	1/2	5 1/8	4	351220	3	351420	153.00	.5971 - .6280	210.00	181.35	171.90	167.30	162.40	158.55
.6562	21/32	.228	3/16	1/2	5 1/8	4	351221	3	351421	178.10	.6281 - .6590	235.10	206.70	197.10	192.40	187.65	183.70
.6875	11/16	.228	3/16	1/2	5 1/8	4	351222	3	351422	162.00	.6591 - .6910	219.10	190.50	181.05	176.35	171.60	167.55
.7188	23/32	.290	1/4	1/2	5 3/8	4	351223	3	351423	182.35	.6911 - .7220	239.25	210.85	201.30	196.80	191.80	187.95
.7500	3/4	.290	1/4	1/2	5 3/8	4	351224	3	351424	165.65	.7221 - .7530	222.80	194.20	184.70	180.00	175.25	171.15
.7812	25/32	.290	1/4	5/8	5 3/8	4	351225	3	351425	186.30	.7531 - .7840	243.20	214.65	205.25	200.50	195.60	191.70
.8125	13/16	.290	1/4	5/8	5 3/8	4	351226	3	351426	169.10	.7841 - .8160	226.20	197.60	188.15	183.35	178.70	174.80
.8438	27/32	.290	1/4	3/4	5 3/8	4	351227	3	351427	197.15	.8161 - .8470	254.30	225.65	216.30	211.55	206.75	202.75
.8750	7/8	.290	1/4	3/4	5 3/8	4	351228	3	351428	179.30	.8471 - .8780	236.40	207.90	198.45	193.60	188.85	184.85
.9062	29/32	.290	1/4	3/4	6 1/8	4	351229	3	351429	201.15	.8781 - .9090	258.35	229.75	220.20	215.60	210.75	206.85
.9375	15/16	.290	1/4	3/4	6 1/8	4	351230	3	351430	240.20	.9091 - .9410	240.20	211.55	202.10	197.30	192.50	188.55
.9688	31/32	.353	5/16	3/4	6 3/8	4	351231	3	351431	207.05	.9411 - .9720	264.05	235.50	226.05	221.35	216.60	212.65
1.0000	1	.353	5/16	3/4	6 3/8	4	351232	3	351432	188.25	.9721 - 1.0030	245.40	216.75	207.20	202.55	197.75	193.75
1.0625	1 1/16	.353	5/16	3/4	6 3/8	4	351234	3	351434	190.20	1.0031 - 1.0660	247.35	218.70	209.20	204.65	199.75	195.80
1.1250	1 1/8	.353	5/16	1	6 3/8	4	351236	3	351436	195.20	1.0661 - 1.1280	252.15	223.60	214.25	209.35	204.65	200.70
1.1875	1 3/16	.353	5/16	1	6 3/8	4	351238	3	351438	203.75	1.1281 - 1.1905	260.75	232.40	222.85	218.10	213.25	209.35
1.2500	1 1/4	.426	3/8	1	6 5/8	-	-	4	351440	226.95	1.1906 - 1.2530	288.70	257.95	247.60	242.50	237.15	233.15
1.3125	1 5/16	.426	3/8	1	6 5/8	-	-	4	351442	244.95	1.2531 - 1.3155	306.95	276.00	265.60	260.50	255.30	251.05
1.3750	1 3/8	.426	3/8	1	6 5/8	-	-	4	351444	257.80	1.3156 - 1.3780	319.55	288.55	278.20	273.05	268.00	263.70
1.4375	1 7/16	.426	3/8	1 1/4	7 7/8	-	-	4	351446	282.50	1.3781 - 1.4405	349.65	316.10	304.80	299.20	293.70	289.00
1.5000	1 1/2	.426	3/8	1 1/4	7 7/8	-	-	4	351448	326.60	1.4406 - 1.5030	396.35	361.35	349.80	344.20	338.25	333.40
1.5625	1 5/8	.489	7/16	1 1/4	8 1/8	-	-	4	351450	336.20	1.5031 - 1.5660	406.05	371.05	359.40	353.65	347.85	343.05
1.6250	1 5/8	.489	7/16	1 1/4	8 1/8	-	-	4	351452	343.20	1.5661 - 1.6280	413.10	378.15	366.65	360.85	354.95	350.20
1.6875	1 11/16	.489	7/16	1 1/4	8 1/8	-	-	4	351454	410.75	1.6281 - 1.6910	485.95	448.40	435.75	429.50	423.20	418.00
1.7500	1 3/4	.489	7/16	1 1/4	8 1/8	-	-	4	351456	410.75	1.6911 - 1.7530	485.95	448.40	435.75	429.50	423.20	418.00
1.8125	1 13/16	.489	7/16	1 1/2	8 1/8	-	-	4	351458	486.20	1.7531 - 1.8160	561.50	523.90	511.35	505.15	498.60	493.60
1.8750	1 7/8	.489	7/16	1 1/2	8 1/8	-	-	4	351460	486.20	1.8161 - 1.8780	561.50	523.90	511.35	505.15	498.60	493.60
1.9375	1 15/16	.489	7/16	1 1/2	8 1/8	-	-	4	351462	531.30	1.8781 - 1.9410	606.75	569.10	556.50	550.15	543.85	538.75
2.0000	2	.551	1/2	1 1/2	8 3/8	-	-	4	351464	531.30	1.9411 - 2.0030	606.75	569.10	556.50	550.15	543.85	538.75

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CARBIDE TIPPED COUNTERBORES FOR NON-FERROUS & CAST IRON

METRIC



TYPE 3512 - STRAIGHT SHANK - FOUR FLUTES
TYPE 3514 - STRAIGHT SHANK - THREE/FOUR FLUTES

Detailed description, tolerances, and fractional sizes on page 34. Tool diameter in millimeters with all other dimensions in inches.

TOOL DIAM.		MIN. CUT DIAM.	PILOT HOLE DIAM.	SHANK DIAM.	OVER ALL LEN.	TYPE 3512		TYPE 3514		BOTH TYPES PRICE	METRIC SIZE RANGE	PRICE EACH - FINISHED TO METRIC SIZE						
mm	INCH					NO.OF FLTS.	EDP NO.	NO.OF FLTS.	EDP NO.			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
6.0	.2362	.114	3/32	1 5/64	3 13/16	-	-	3	3514060	\$138.90	6.000 - 6.426	\$188.00	\$155.05	\$144.10	\$138.90	\$133.30	\$128.90	\$122.30
6.5	.2559	.114	3/32	1 7/64	3 13/16	-	-	3	3514065	164.80	6.427 - 7.214	214.00	181.05	170.10	164.80	159.30	154.85	148.25
7.0	.2756	.114	3/32	1 7/64	3 13/16	-	-	3	3514070	164.80	-	-	-	-	-	-	-	-
7.5	.2953	.114	3/32	1 9/64	3 13/16	-	-	3	3514075	142.60	7.215 - 8.001	188.70	157.80	147.40	142.60	137.35	133.15	127.00
8.0	.3150	.114	3/32	1 9/64	3 13/16	-	-	3	3514080	142.60	-	-	-	-	-	-	-	-
8.5	.3346	.114	3/32	5/16	3 13/16	-	-	3	3514085	174.80	8.002 - 8.814	221.05	190.05	179.70	174.80	169.55	165.35	159.35
9.0	.3543	.182	5/32	5/16	4 1/16	-	-	3	3514090	148.25	8.815 - 9.601	190.90	162.30	152.85	148.25	143.50	139.50	133.95
9.5	.3740	.182	5/32	5/16	4 1/16	-	-	3	3514095	148.25	-	-	-	-	-	-	-	-
10.0	.3937	.182	5/32	3/8	4 1/16	-	-	3	3514100	164.75	9.602 - 10.389	207.35	178.85	169.35	164.75	159.95	156.10	150.60
10.5	.4134	.182	5/32	3/8	4 1/16	-	-	3	3514105	151.60	10.390 - 11.201	194.20	165.65	156.20	151.60	146.90	142.90	137.35
11.0	.4331	.182	5/32	3/8	4 1/16	-	-	3	3514110	151.60	-	-	-	-	-	-	-	-
11.5	.4528	.228	3/16	7/16	4 5/16	-	-	3	3514115	181.00	11.202 - 11.989	223.40	194.95	185.50	181.00	176.05	172.15	166.55
12.0	.4724	.228	3/16	7/16	4 5/16	4	3512120	3	3514120	166.25	11.990 - 12.776	208.80	180.30	170.80	166.25	161.35	157.45	151.75
12.5	.4921	.228	3/16	7/16	4 5/16	4	3512125	3	3514125	166.25	-	-	-	-	-	-	-	-
13.0	.5118	.228	3/16	1/2	4 5/16	4	3512130	3	3514130	185.65	12.777 - 13.564	228.15	199.65	190.15	185.65	180.75	176.90	171.15
13.5	.5315	.228	3/16	1/2	4 5/16	4	3512135	3	3514135	185.65	-	-	-	-	-	-	-	-
14.0	.5512	.228	3/16	1/2	4 5/16	4	3512140	3	3514140	170.55	13.565 - 14.376	213.10	184.60	175.15	170.55	165.65	161.80	156.20
14.5	.5709	.228	3/16	1/2	5 1/8	4	3512145	3	3514145	187.40	14.377 - 15.164	230.00	201.30	191.80	187.40	182.50	178.65	172.90
15.0	.5906	.228	3/16	1/2	5 1/8	4	3512150	3	3514150	187.40	-	-	-	-	-	-	-	-
15.5	.6102	.228	3/16	1/2	5 1/8	4	3512155	3	3514155	171.90	15.165 - 15.951	214.55	186.20	176.60	171.90	167.25	163.20	157.70
16.0	.6299	.228	3/16	1/2	5 1/8	4	3512160	3	3514160	197.10	15.952 - 16.739	239.65	211.15	201.65	197.10	192.35	188.40	182.90
16.5	.6496	.228	3/16	1/2	5 1/8	4	3512165	3	3514165	197.10	-	-	-	-	-	-	-	-
17.0	.6693	.228	3/16	1/2	5 1/8	4	3512170	3	3514170	181.05	16.740 - 17.551	223.60	195.20	185.65	181.05	176.30	172.30	166.70
17.5	.6890	.228	3/16	1/2	5 1/8	4	3512175	3	3514175	181.05	-	-	-	-	-	-	-	-
18.0	.7087	.290	1/4	1/2	5 3/8	4	3512180	3	3514180	201.30	17.552 - 18.339	244.05	215.45	205.95	201.30	196.55	192.65	186.95
18.5	.7283	.290	1/4	1/2	5 3/8	4	3512185	3	3514185	184.70	18.340 - 19.126	227.25	198.85	189.30	184.70	179.85	175.85	170.40
19.0	.7480	.290	1/4	1/2	5 3/8	4	3512190	3	3514190	184.70	-	-	-	-	-	-	-	-
19.5	.7677	.290	1/4	5/8	5 3/8	4	3512195	3	3514195	205.25	19.127 - 19.914	247.75	219.30	209.80	205.25	200.40	196.40	190.90
20.0	.7874	.290	1/4	5/8	5 3/8	4	3512200	3	3514200	188.15	19.915 - 20.726	230.75	202.30	192.70	188.15	183.25	179.45	173.90
20.5	.8071	.290	1/4	5/8	5 3/8	4	3512205	3	3514205	188.15	-	-	-	-	-	-	-	-
21.0	.8268	.290	1/4	3/4	5 3/8	4	3512210	3	3514210	216.30	20.727 - 21.514	258.85	230.35	221.00	216.30	211.40	207.45	201.95
21.5	.8465	.290	1/4	3/4	5 3/8	4	3512215	3	3514215	216.30	-	-	-	-	-	-	-	-
22.0	.8661	.290	1/4	3/4	5 3/8	4	3512220	3	3514220	198.45	21.515 - 22.301	241.00	212.50	202.90	198.45	193.55	189.70	184.10
22.5	.8858	.290	1/4	3/4	6 1/8	4	3512225	3	3514225	220.20	22.302 - 23.089	262.85	234.35	224.85	220.20	215.45	211.55	205.95
23.0	.9055	.290	1/4	3/4	6 1/8	4	3512230	3	3514230	220.20	-	-	-	-	-	-	-	-
23.5	.9252	.290	1/4	3/4	6 1/8	4	3512235	3	3514235	202.10	23.090 - 23.901	244.65	216.15	206.70	202.10	197.15	193.30	187.70
24.0	.9449	.353	5/16	3/4	6 3/8	4	3512240	3	3514240	226.05	23.902 - 24.689	268.60	240.25	230.65	226.05	221.30	217.50	211.70
24.5	.9646	.353	5/16	3/4	6 3/8	4	3512245	3	3514245	226.05	-	-	-	-	-	-	-	-
25.0	.9843	.353	5/16	3/4	6 3/8	4	3512250	3	3514250	207.20	24.690 - 25.476	249.95	221.35	211.90	207.20	202.45	198.70	193.10
25.5	1.0039	.353	5/16	3/4	6 3/8	4	3512255	3	3514255	209.20	25.477 - 27.076	251.80	223.30	213.85	209.20	204.50	200.65	194.95
26.0	1.0236	.353	5/16	3/4	6 3/8	4	3512260	3	3514260	209.20	-	-	-	-	-	-	-	-
27.0	1.0630	.353	5/16	3/4	6 3/8	4	3512270	3	3514270	209.20	-	-	-	-	-	-	-	-
28.0	1.1024	.353	5/16	1	6 3/8	4	3512280	3	3514280	214.25	27.077 - 28.651	256.80	228.15	218.65	214.25	209.20	205.40	199.75
29.0	1.1417	.353	5/16	1	6 3/8	4	3512290	3	3514290	222.85	28.652 - 30.239	265.30	236.95	227.35	222.85	218.05	214.25	208.60
30.0	1.1811	.353	5/16	1	6 3/8	4	3512300	3	3514300	222.85	-	-	-	-	-	-	-	-
31.0	1.2205	.426	3/8	1	6 5/8	-	-	4	3514310	247.60	30.240 - 31.826	293.80	262.85	252.60	247.60	242.35	238.05	232.10
32.0	1.2598	.426	3/8	1	6 5/8	-	-	4	3514320	265.60	31.827 - 33.414	311.85	280.85	270.65	265.60	260.45	256.20	250.10
33.0	1.2992	.426	3/8	1	6 5/8	-	-	4	3514330	265.60	-	-	-	-	-	-	-	-
34.0	1.3386	.426	3/8	1	6 5/8	-	-	4	3514340	278.20	33.415 - 35.001	324.40	293.65	283.10	278.20	273.00	268.70	262.65
35.0	1.3780	.426	3/8	1	6 5/8	-	-	4	3514350	278.20	-	-	-	-	-	-	-	-
36.0	1.4173	.426	3/8	1 1/4	7 7/8	-	-	4	3514360	304.80	35.002 - 36.589	355.00	321.60	310.20	304.80	299.05	294.55	288.05
37.0	1.4567	.426	3/8	1 1/4	7 7/8	-	-	4	3514370	337.10	36.590 - 38.176	387.35	353.80	342.60	337.10	331.50	326.80	320.30
38.0	1.4961	.426	3/8	1 1/4	7 7/8	-	-	4	3514380	337.10	-	-	-	-	-	-	-	-

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Diameters up to 50mm - call us for pricing & availability.

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CARBIDE TIPPED COUNTERBORES FOR NON-FERROUS & CAST IRON

TYPE 3518 - TAPER SHANK - FOUR FLUTES

TYPE 3516 - TAPER SHANK - THREE/FOUR FLUTES

Carbide tips brazed to hardened alloy steel bodies. Right spiral smooth flutes. Interchangeable pilot type.

Tools are designed with appropriate carbide grade and tool geometry for machining non-ferrous, cast iron and non-metals.



Tool diameter tolerance: +.001"/-.000".

Shank diameter tolerance: +.0000"/-.0005".

TOOL DIAMETER		MIN. CUT DIAM.	PILOT HOLE DIAM.	MORSE TAPER	OVER ALL LEN.	TYPE 3518		TYPE 3516		BOTH TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTION					NO. OF FLTS.	EDP NO.	NO. OF FLTS.	EDP NO.			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.2500	1/4	.114	3/32	1	3 13/16	-	-	3	351608	\$141.75	.2381 - .2530	\$210.15	\$176.00	\$164.60	\$158.90	\$153.15	\$148.50
.2812	9/32	.114	3/32	1	3 13/16	-	-	3	351609	170.65	.2531 - .2840	238.80	204.55	193.25	187.65	182.05	177.15
.3125	5/16	.114	3/32	1	3 13/16	-	-	3	351610	145.70	.2841 - .3150	209.85	177.75	167.15	161.85	156.35	151.95
.3438	11/32	.114	3/32	1	3 13/16	-	-	3	351611	179.55	.3151 - .3470	243.75	211.55	200.80	195.60	190.15	185.75
.3750	3/8	.182	5/32	1	4 1/16	-	-	3	351612	150.45	.3471 - .3780	209.40	180.00	170.00	165.25	160.25	156.25
.4062	13/32	.182	5/32	1	4 1/16	-	-	3	351613	169.85	.3781 - .4090	229.05	199.45	189.70	184.70	179.80	175.70
.4375	7/16	.182	5/32	1	4 1/16	-	-	3	351614	154.45	.4091 - .4410	213.50	184.00	174.10	169.35	164.35	160.25
.4688	15/32	.228	3/16	1	4 5/16	-	-	3	351615	187.55	.4411 - .4720	246.70	217.05	207.20	202.40	197.45	193.40
.5000	1/2	.228	3/16	1	4 5/16	4	351816	3	351616	170.55	.4721 - .5030	229.80	200.10	190.15	185.50	180.30	176.30
.5312	17/32	.228	3/16	1	4 5/16	4	351817	3	351617	190.95	.5031 - .5340	250.10	220.55	210.60	205.80	200.80	196.80
.5625	9/16	.228	3/16	1	4 5/16	4	351818	3	351618	173.65	.5341 - .5660	232.85	203.20	193.45	188.45	183.65	179.55
.5938	19/32	.228	3/16	2	5 1/8	4	351819	3	351619	196.20	.5661 - .5970	255.45	225.80	216.00	211.10	206.15	202.00
.6250	5/8	.228	3/16	2	5 1/8	4	351820	3	351620	178.35	.5971 - .6280	237.40	208.00	198.00	193.30	188.10	184.10
.6562	21/32	.228	3/16	2	5 1/8	4	351821	3	351621	207.15	.6281 - .6590	266.35	236.80	226.80	222.10	216.95	212.95
.6875	11/16	.228	3/16	2	5 1/8	4	351822	3	351622	188.10	.6591 - .6910	247.45	217.75	208.00	203.00	198.00	194.00
.7188	23/32	.290	1/4	2	5 3/8	4	351823	3	351623	210.55	.6911 - .7220	269.75	240.20	230.30	225.50	220.45	216.45
.7500	3/4	.290	1/4	2	5 3/8	4	351824	3	351624	191.40	.7221 - .7530	250.45	221.00	211.10	206.30	201.15	197.00
.7812	25/32	.290	1/4	2	5 3/8	4	351825	3	351625	214.15	.7531 - .7840	273.20	243.75	233.75	228.90	223.95	219.90
.8125	13/16	.290	1/4	2	5 3/8	4	351826	3	351626	194.65	.7841 - .8160	253.80	224.30	214.50	209.40	204.55	200.50
.8438	27/32	.290	1/4	2	5 3/8	4	351827	3	351627	225.05	.8161 - .8470	284.35	254.75	244.95	240.10	235.10	231.05
.8750	7/8	.290	1/4	2	5 3/8	4	351828	3	351628	204.65	.8471 - .8780	263.85	234.20	224.45	219.45	214.55	210.40
.9062	29/32	.290	1/4	3	6 1/8	4	351829	3	351629	231.25	.8781 - .9090	290.40	260.75	251.05	246.00	241.15	237.10
.9375	15/16	.290	1/4	3	6 1/8	4	351830	3	351630	210.25	.9091 - .9410	269.35	239.80	230.00	225.00	220.20	216.05
.9688	31/32	.353	5/16	3	6 3/8	4	351831	3	351631	236.70	.9411 - .9720	295.75	266.25	256.35	251.50	246.40	242.30
1.0000	1	.353	5/16	3	6 3/8	4	351832	3	351632	223.25	.9721 - 1.0030	284.70	253.95	243.75	238.75	233.40	229.20
1.0625	1 1/16	.353	5/16	3	6 3/8	4	351834	3	351634	226.20	1.0031 - 1.0660	287.45	256.80	246.60	241.55	236.25	232.10
1.1250	1 1/8	.353	5/16	3	6 3/8	4	351836	3	351636	233.30	1.0661 - 1.1280	294.75	264.15	253.70	248.70	243.50	239.35
1.1875	1 3/16	.353	5/16	3	6 3/8	4	351838	3	351638	241.25	1.1281 - 1.1905	302.85	272.00	261.65	256.75	251.50	247.30
1.2500	1 1/4	.426	3/8	3	6 5/8	-	-	4	351640	268.25	1.1906 - 1.2530	334.75	301.50	290.40	284.95	279.35	274.65
1.3125	1 5/16	.426	3/8	3	6 5/8	-	-	4	351642	287.45	1.2531 - 1.3155	354.25	320.70	309.75	304.15	298.70	294.00
1.3750	1 3/8	.426	3/8	3	6 5/8	-	-	4	351644	301.25	1.3156 - 1.3780	367.80	334.55	323.40	317.90	312.45	307.70
1.4375	1 7/16	.426	3/8	4	7 7/8	-	-	4	351646	335.15	1.3781 - 1.4405	407.55	371.35	359.10	353.20	347.15	342.15
1.5000	1 1/2	.426	3/8	4	7 7/8	-	-	4	351648	371.50	1.4406 - 1.5030	443.90	407.80	395.70	389.70	383.65	378.70
1.5625	1 9/16	.489	7/16	4	8 1/8	-	-	4	351650	399.15	1.5031 - 1.5660	475.00	437.20	424.65	418.20	411.95	406.80
1.6250	1 5/8	.489	7/16	4	8 1/8	-	-	4	351652	406.35	1.5661 - 1.6280	482.10	444.40	431.70	425.40	419.00	413.90
1.6875	1 11/16	.489	7/16	4	8 1/8	-	-	4	351654	486.20	1.6281 - 1.6910	568.15	527.25	513.65	506.90	499.85	494.25
1.7500	1 3/4	.489	7/16	4	8 1/8	-	-	4	351656	486.20	1.6911 - 1.7530	568.15	527.25	513.65	506.90	499.85	494.25
1.8125	1 13/16	.489	7/16	4	8 1/8	-	-	4	351658	575.45	1.7531 - 1.8160	657.25	616.45	602.75	595.95	589.10	583.35
1.8750	1 7/8	.489	7/16	4	8 1/8	-	-	4	351660	575.45	1.8161 - 1.8780	657.25	616.45	602.75	595.95	589.10	583.35
1.9375	1 15/16	.489	7/16	4	8 1/8	-	-	4	351662	628.75	1.8781 - 1.9410	710.70	669.75	656.00	649.35	642.45	636.80
2.0000	2	.551	1/2	4	8 3/8	-	-	4	351664	628.75	1.9411 - 2.0030	710.70	669.75	656.00	649.35	642.45	636.80

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CARBIDE TIPPED COUNTERBORES FOR NON-FERROUS & CAST IRON

METRIC



TYPE 3518 - TAPER SHANK - FOUR FLUTES
TYPE 3516 - TAPER SHANK - THREE/FOUR FLUTES

Detailed description, tolerances, and fractional sizes on page 36. Tool diameter in millimeters with all other dimensions in inches.

TOOL DIAM.		MIN. CUT DIAM.	PILOT HOLE DIAM.	MORSE TAPER	OVER ALL LEN.	TYPE 3518		TYPE 3516		BOTH TYPES PRICE	METRIC SIZE RANGE	PRICE EACH - FINISHED TO METRIC SIZE						
mm	INCH					NO. OF FLTS.	EDP NO.	NO. OF FLTS.	EDP NO.			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
6.0	.2362	.114	3/32	1	3 13/16	-	-	3	3516060	\$164.60	6.000 - 6.426	\$215.60	\$181.35	\$170.00	\$164.60	\$158.85	\$154.05	\$147.40
6.5	.2559	.114	3/32	1	3 13/16	-	-	3	3516065	193.25	6.427 - 7.214	244.25	210.15	198.70	193.25	187.55	182.90	176.15
7.0	.2756	.114	3/32	1	3 13/16	-	-	3	3516070	193.25	-	-	-	-	-	-	-	-
7.5	.2953	.114	3/32	1	3 13/16	-	-	3	3516075	167.15	7.215 - 8.001	215.00	182.95	172.15	167.15	161.70	157.15	150.90
8.0	.3150	.114	3/32	1	3 13/16	-	-	3	3516080	167.15	-	-	-	-	-	-	-	-
8.5	.3346	.114	3/32	1	3 13/16	-	-	3	3516085	200.80	8.002 - 8.814	248.90	216.75	206.15	200.80	195.50	191.10	184.70
9.0	.3543	.182	5/32	1	4 1/16	-	-	3	3516090	170.00	8.815 - 9.601	214.35	184.70	174.85	170.00	165.05	161.05	155.20
9.5	.3740	.182	5/32	1	4 1/16	-	-	3	3516095	170.00	-	-	-	-	-	-	-	-
10.0	.3937	.182	5/32	1	4 1/16	-	-	3	3516100	189.70	9.602 - 10.389	233.75	204.25	194.45	189.70	184.55	180.40	174.80
10.5	.4134	.182	5/32	1	4 1/16	-	-	3	3516105	174.10	10.390 - 11.201	218.40	188.75	178.95	174.10	169.10	165.05	159.20
11.0	.4331	.182	5/32	1	4 1/16	-	-	3	3516110	174.10	-	-	-	-	-	-	-	-
11.5	.4528	.228	3/16	1	4 3/16	-	-	3	3516115	207.20	11.202 - 11.989	251.50	221.95	212.05	207.20	202.30	198.05	192.25
12.0	.4724	.228	3/16	1	4 3/16	4	3518120	3	3516120	190.15	11.990 - 12.776	234.60	204.80	194.95	190.15	185.45	181.20	175.40
12.5	.4921	.228	3/16	1	4 3/16	4	3518125	3	3516125	190.15	-	-	-	-	-	-	-	-
13.0	.5118	.228	3/16	1	4 3/16	4	3518130	3	3516130	210.60	12.777 - 13.564	254.90	225.45	215.40	210.60	205.70	201.65	195.80
13.5	.5315	.228	3/16	1	4 3/16	4	3518135	3	3516135	210.60	-	-	-	-	-	-	-	-
14.0	.5512	.228	3/16	1	4 3/16	4	3518140	3	3516140	193.45	13.565 - 14.376	237.70	208.15	198.05	193.45	188.25	184.25	178.50
14.5	.5709	.228	3/16	2	5 1/8	4	3518145	3	3516145	216.00	14.377 - 15.164	260.30	230.45	220.60	216.00	211.00	206.75	201.00
15.0	.5906	.228	3/16	2	5 1/8	4	3518150	3	3516150	216.00	-	-	-	-	-	-	-	-
15.5	.6102	.228	3/16	2	5 1/8	4	3518155	3	3516155	198.00	15.165 - 15.951	242.20	212.65	202.75	198.00	193.15	189.10	183.20
16.0	.6299	.228	3/16	2	5 1/8	4	3518160	3	3516160	226.80	15.952 - 16.739	271.10	241.40	231.55	226.80	221.95	217.75	212.05
16.5	.6496	.228	3/16	2	5 1/8	4	3518165	3	3516165	226.80	-	-	-	-	-	-	-	-
17.0	.6693	.228	3/16	2	5 1/8	4	3518170	3	3516170	208.00	16.740 - 17.551	252.05	222.50	212.65	208.00	202.90	198.85	193.15
17.5	.6890	.228	3/16	2	5 1/8	4	3518175	3	3516175	208.00	-	-	-	-	-	-	-	-
18.0	.7087	.290	1/4	2	5 3/8	4	3518180	3	3516180	230.30	17.552 - 18.339	274.50	244.95	235.10	230.30	225.45	221.20	215.40
18.5	.7283	.290	1/4	2	5 3/8	4	3518185	3	3516185	211.10	18.340 - 19.126	255.30	225.65	215.75	211.10	206.15	202.00	196.20
19.0	.7480	.290	1/4	2	5 3/8	4	3518190	3	3516190	211.10	-	-	-	-	-	-	-	-
19.5	.7677	.290	1/4	2	5 3/8	4	3518195	3	3516195	233.75	19.127 - 19.914	278.05	248.35	238.65	233.75	228.85	224.75	218.95
20.0	.7874	.290	1/4	2	5 3/8	4	3518200	3	3516200	214.50	19.915 - 20.726	258.65	229.05	219.10	214.50	209.35	205.40	199.60
20.5	.8071	.290	1/4	2	5 3/8	4	3518205	3	3516205	214.50	-	-	-	-	-	-	-	-
21.0	.8268	.290	1/4	2	5 3/8	4	3518210	3	3516210	244.95	20.727 - 21.514	289.25	259.55	249.70	244.95	239.95	235.85	230.05
21.5	.8465	.290	1/4	2	5 3/8	4	3518215	3	3516215	244.95	-	-	-	-	-	-	-	-
22.0	.8661	.290	1/4	2	5 3/8	4	3518220	3	3516220	224.45	21.515 - 22.301	268.55	239.05	229.20	224.45	219.30	215.30	209.40
22.5	.8858	.290	1/4	3	6 1/8	4	3518225	3	3516225	251.05	22.302 - 23.089	295.20	265.65	255.70	251.05	245.95	241.90	236.00
23.0	.9055	.290	1/4	3	6 1/8	4	3518230	3	3516230	251.05	-	-	-	-	-	-	-	-
23.5	.9252	.290	1/4	3	6 1/8	4	3518235	3	3516235	230.00	23.090 - 23.901	274.20	244.55	234.75	230.00	224.90	221.00	215.10
24.0	.9449	.353	5/16	3	6 3/8	4	3518240	3	3516240	256.35	23.902 - 24.689	300.60	270.85	261.05	256.35	251.45	247.30	241.40
24.5	.9646	.353	5/16	3	6 3/8	4	3518245	3	3516245	256.35	-	-	-	-	-	-	-	-
25.0	.9843	.353	5/16	3	6 3/8	4	3518250	3	3516250	234.90	24.690 - 25.476	279.05	249.50	239.60	234.90	229.90	225.80	220.15
25.5	1.0039	.353	5/16	3	6 3/8	4	3518255	3	3516255	246.60	25.477 - 27.076	292.50	261.65	251.50	246.60	241.40	237.15	231.10
26.0	1.0236	.353	5/16	3	6 3/8	4	3518260	3	3516260	246.60	-	-	-	-	-	-	-	-
27.0	1.0630	.353	3/8	3	6 3/8	4	3518270	3	3516270	246.60	-	-	-	-	-	-	-	-
28.0	1.1024	.353	3/8	3	6 3/8	4	3518280	3	3516280	253.70	27.077 - 28.651	299.70	269.00	258.80	253.70	248.55	244.50	238.35
29.0	1.1417	.353	3/8	3	6 3/8	4	3518290	3	3516290	261.65	28.652 - 30.239	307.60	277.00	266.70	261.65	256.60	252.45	246.40
30.0	1.1811	.353	3/8	3	6 3/8	4	3518300	3	3516300	261.65	-	-	-	-	-	-	-	-
31.0	1.2205	.426	3/8	3	6 5/8	-	-	4	3516310	290.40	30.240 - 31.826	340.10	306.85	295.75	290.40	284.85	280.30	273.60
32.0	1.2598	.426	3/8	3	6 5/8	-	-	4	3516320	309.75	31.827 - 33.414	359.65	326.20	315.10	309.75	304.05	299.60	292.95
33.0	1.2992	.426	3/8	3	6 5/8	-	-	4	3516330	309.75	-	-	-	-	-	-	-	-
34.0	1.3386	.426	3/8	3	6 5/8	-	-	4	3516340	323.40	33.415 - 35.001	373.30	339.90	328.70	323.40	317.80	313.35	306.65
35.0	1.3780	.426	3/8	3	6 5/8	-	-	4	3516350	323.40	-	-	-	-	-	-	-	-
36.0	1.4173	.426	3/8	4	7 7/8	-	-	4	3516360	359.10	35.002 - 36.589	413.30	377.10	365.05	359.10	353.15	348.30	340.95
37.0	1.4567	.426	3/8	4	7 7/8	-	-	4	3516370	395.70	36.590 - 38.176	449.75	413.60	401.45	395.70	389.65	384.60	377.55
38.0	1.4961	.426	3/8	4	7 7/8	-	-	4	3516380	395.70	-	-	-	-	-	-	-	-

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Diameters up to 50mm - call us for pricing & availability.

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CARBIDE TIPPED COUNTERBORES FOR STEEL

TYPE 3510 - STRAIGHT SHANK - THREE/FOUR FLUTES

TYPE 3511 - TAPER SHANK - THREE/FOUR FLUTES

Carbide tips brazed to hardened alloy steel bodies. Right spiral smooth flutes. Interchangeable pilot type.

Tools are designed with appropriate carbide grade and tool geometry for machining steel and steel alloys.



Tool diameter tolerance: +.001"/-.000".

Shank diameter tolerance: +.0000"/-.0005".

TOOL DIAMETER		MIN. CUT DIAM.	PILOT HOLE DIAM.	NO. OF FLUTES	OVER ALL LEN.	STRAIGHT SHANK TYPE 3510		TAPER SHANK TYPE 3511		BOTH TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTION					SHANK DIAM.	EDP NO.	MORSE TAPER	EDP NO.			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.2500	1/4	.114	3/32	3	3 13/16	15/64	351008	1	351108	\$141.75	.2381 - .2530	\$210.15	\$176.00	\$164.60	\$158.90	\$153.15	\$148.50
.2812	9/32	.114	3/32	3	3 13/16	17/64	351009	1	351109	170.65	.2531 - .2840	238.80	204.55	193.25	187.65	182.05	177.15
.3125	5/16	.114	3/32	3	3 13/16	19/64	351010	1	351110	145.70	.2841 - .3150	209.85	177.75	167.15	161.85	156.35	151.95
.3438	11/32	.114	3/32	3	3 13/16	5/16	351011	1	351111	179.55	.3151 - .3470	243.75	211.55	200.80	195.60	190.15	185.75
.3750	3/8	.182	5/32	3	4 1/16	5/16	351012	1	351112	150.45	.3471 - .3780	209.40	180.00	170.00	165.25	160.25	156.25
.4062	13/32	.182	5/32	3	4 1/16	3/8	351013	1	351113	169.85	.3781 - .4090	229.05	199.45	189.70	184.70	179.80	175.70
.4375	7/16	.182	5/32	3	4 1/16	3/8	351014	1	351114	154.45	.4091 - .4410	213.50	184.00	174.10	169.35	164.35	160.25
.4688	15/32	.228	3/16	3	4 5/16	7/16	351015	1	351115	187.55	.4411 - .4720	246.70	217.05	207.20	202.40	197.45	193.40
.5000	1/2	.228	3/16	3	4 5/16	7/16	351016	1	351116	170.55	.4721 - .5030	229.80	200.10	190.15	185.50	180.30	176.30
.5312	17/32	.228	3/16	3	4 5/16	1/2	351017	1	351117	184.10	.5031 - .5340	241.10	212.60	203.05	198.45	193.55	189.70
.5625	9/16	.228	3/16	3	4 5/16	1/2	351018	1	351118	167.40	.5341 - .5660	224.45	195.80	186.45	181.50	176.90	172.90
.5938	19/32	.228	3/16	3	5 1/8	1/2	351019	2	351119	189.10	.5661 - .5970	246.10	217.65	208.15	203.35	198.70	194.60
.6250	5/8	.228	3/16	3	5 1/8	1/2	351020	2	351120	171.85	.5971 - .6280	228.90	200.40	190.90	186.30	181.30	177.45
.6562	21/32	.228	3/16	3	5 1/8	1/2	351021	2	351121	199.60	.6281 - .6590	256.60	228.10	218.55	213.85	209.05	205.25
.6875	11/16	.228	3/16	3	5 1/8	1/2	351022	2	351122	181.30	.6591 - .6910	238.45	209.85	200.40	195.60	190.90	186.80
.7188	23/32	.290	1/4	3	5 3/8	1/2	351023	2	351123	202.90	.6911 - .7220	260.00	231.50	222.05	217.25	212.50	208.60
.7500	3/4	.290	1/4	3	5 3/8	1/2	351024	2	351124	184.45	.7221 - .7530	241.40	212.80	203.35	198.75	193.75	189.90
.7812	25/32	.290	1/4	3	5 3/8	5/8	351025	2	351125	206.40	.7531 - .7840	263.30	234.90	225.35	220.55	215.85	211.90
.8125	13/16	.290	1/4	3	5 3/8	5/8	351026	2	351126	187.65	.7841 - .8160	244.65	216.15	206.70	201.95	197.10	193.25
.8438	27/32	.290	1/4	3	5 3/8	3/4	351027	2	351127	216.90	.8161 - .8470	274.15	245.55	236.00	231.25	226.55	222.55
.8750	7/8	.290	1/4	3	5 3/8	3/4	351028	2	351128	197.15	.8471 - .8780	254.30	225.65	216.30	211.55	206.75	202.75
.9062	29/32	.290	1/4	3	6 1/8	3/4	351029	3	351129	222.85	.8781 - .9090	279.80	251.30	241.90	237.10	232.40	228.45
.9375	15/16	.290	1/4	3	6 1/8	3/4	351030	3	351130	202.55	.9091 - .9410	259.55	231.05	221.50	216.80	212.15	208.20
.9688	31/32	.353	5/16	3	6 3/8	3/4	351031	3	351131	228.00	.9411 - .9720	284.95	256.50	247.00	242.30	237.30	233.55
1.0000	1	.353	5/16	3	6 3/8	3/4	351032	3	351132	215.10	.9721 - 1.0030	274.45	244.80	234.90	230.05	224.85	221.00
1.0625	1 1/16	.353	5/16	3	6 3/8	3/4	351034	3	351134	217.95	1.0031 - 1.0660	277.00	247.45	237.60	232.70	227.70	223.70
1.1250	1 1/8	.353	5/16	3	6 3/8	1	351036	3	351136	224.75	1.0661 - 1.1280	284.05	254.55	244.55	239.65	234.65	230.65
1.1875	1 3/16	.353	5/16	3	6 3/8	1	351038	3	351138	232.45	1.1281 - 1.1905	291.80	262.20	252.20	247.35	242.30	238.35
1.2500	1 1/4	.426	3/8	4	6 5/8	1	351040	3	351140	258.50	1.1906 - 1.2530	322.60	290.45	279.80	274.60	269.15	264.75
1.3125	1 5/16	.426	3/8	4	6 5/8	1	351042	3	351142	277.00	1.2531 - 1.3155	341.35	309.15	298.55	293.10	287.80	283.35
1.3750	1 3/8	.426	3/8	4	6 5/8	1	351044	3	351144	290.30	1.3156 - 1.3780	354.40	322.35	311.70	306.40	300.95	296.50
1.4375	1 7/16	.426	3/8	4	7 7/8	1 1/4	351046	4	351146	322.80	1.3781 - 1.4405	392.75	357.90	346.10	340.50	334.55	329.70
1.5000	1 1/2	.426	3/8	4	7 7/8	1 1/4	351048	4	351148	371.50	1.4406 - 1.5030	443.90	407.80	395.70	389.70	383.65	378.70
1.5625	1 9/16	.489	7/16	4	8 1/8	1 1/4	351050	4	351150	399.15	1.5031 - 1.5660	475.00	437.20	424.65	418.20	411.95	406.80
1.6250	1 5/8	.489	7/16	4	8 1/8	1 1/4	351052	4	351152	406.35	1.5661 - 1.6280	482.10	444.40	431.70	425.40	419.00	413.90
1.6875	1 11/16	.489	7/16	4	8 1/8	1 1/4	351054	4	351154	486.20	1.6281 - 1.6910	568.15	527.25	513.65	506.90	499.85	494.25
1.7500	1 3/4	.489	7/16	4	8 1/8	1 1/4	351056	4	351156	486.20	1.6911 - 1.7530	568.15	527.25	513.65	506.90	499.85	494.25
1.8125	1 13/16	.489	7/16	4	8 1/8	1 1/2	351058	4	351158	575.45	1.7531 - 1.8160	657.25	616.45	602.75	595.95	589.10	583.35
1.8750	1 7/8	.489	7/16	4	8 1/8	1 1/2	351060	4	351160	575.45	1.8161 - 1.8780	657.25	616.45	602.75	595.95	589.10	583.35
1.9375	1 15/16	.489	7/16	4	8 1/8	1 1/2	351062	4	351162	628.75	1.8781 - 1.9410	710.70	669.75	656.00	649.35	642.45	636.80
2.0000	2	.551	1/2	4	8 3/8	1 1/2	351064	4	351164	628.75	1.9411 - 2.0030	710.70	669.75	656.00	649.35	642.45	636.80

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CARBIDE TIPPED COUNTERBORES FOR STEEL

METRIC



TYPE 3510 - STRAIGHT SHANK - THREE/FOUR FLUTES

TYPE 3511 - TAPER SHANK - THREE/FOUR FLUTES

Detailed description, tolerances, and fractional sizes on page 38. Tool diameter in millimeters with all other dimensions in inches.

TOOL DIAM.		MIN. CUT DIAM.	PILOT HOLE DIAM.	NO. OF FLTS.	OVER ALL LEN.	STRAIGHT SHANK TYPE 3510		TAPER SHANK TYPE 3511		BOTH TYPES PRICE	METRIC SIZE RANGE	PRICE EACH - FINISHED TO METRIC SIZE						
mm	INCH					SHANK DIAM.	EDP NO.	MORSE TAPER	EDP NO.			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
6.0	.2362	.114	3/32	3	3 13/16	15/64	3510060	1	3511060	\$164.60	6.000 - 6.426	\$215.60	\$181.35	\$170.00	\$164.60	\$158.85	\$154.05	\$147.40
6.5	.2559	.114	3/32	3	3 13/16	17/64	3510065	1	3511065	193.25	6.427 - 7.214	244.25	210.15	198.70	193.25	187.55	182.90	176.15
7.0	.2756	.114	3/32	3	3 13/16	17/64	3510070	1	3511070	193.25	-	-	-	-	-	-	-	-
7.5	.2953	.114	3/32	3	3 13/16	19/64	3510075	1	3511075	167.15	7.215 - 8.001	215.00	182.95	172.15	167.15	161.70	157.15	150.90
8.0	.3150	.114	3/32	3	3 13/16	19/64	3510080	1	3511080	167.15	-	-	-	-	-	-	-	-
8.5	.3346	.114	3/32	3	3 13/16	5/16	3510085	1	3511085	200.80	8.002 - 8.814	248.90	216.75	206.15	200.80	195.50	191.10	184.70
9.0	.3543	.182	5/32	3	4 1/16	5/16	3510090	1	3511090	170.00	8.815 - 9.601	214.35	184.70	174.85	170.00	165.05	161.05	155.20
9.5	.3740	.182	5/32	3	4 1/16	5/16	3510095	1	3511095	170.00	-	-	-	-	-	-	-	-
10.0	.3937	.182	5/32	3	4 1/16	3/8	3510100	1	3511100	189.70	9.602 - 10.389	233.75	204.25	194.45	189.70	184.55	180.40	174.80
10.5	.4134	.182	5/32	3	4 1/16	3/8	3510105	1	3511105	174.10	10.390 - 11.201	218.40	188.75	178.95	174.10	169.10	165.05	159.20
11.0	.4331	.182	5/32	3	4 1/16	3/8	3510110	1	3511110	174.10	-	-	-	-	-	-	-	-
11.5	.4528	.228	3/16	3	4 3/16	7/16	3510115	1	3511115	207.20	11.202 - 11.989	251.50	221.95	212.05	207.20	202.30	198.05	192.25
12.0	.4724	.228	3/16	3	4 3/16	7/16	3510120	1	3511120	190.15	11.990 - 12.776	234.60	204.80	194.95	190.15	185.45	181.20	175.40
12.5	.4921	.228	3/16	3	4 3/16	7/16	3510125	1	3511125	190.15	-	-	-	-	-	-	-	-
13.0	.5118	.228	3/16	3	4 3/16	1/2	3510130	1	3511130	203.05	12.777 - 13.564	245.70	217.20	207.50	203.05	198.30	194.35	188.70
13.5	.5315	.228	3/16	3	4 3/16	1/2	3510135	1	3511135	203.05	-	-	-	-	-	-	-	-
14.0	.5512	.228	3/16	3	4 3/16	1/2	3510140	1	3511140	186.45	13.565 - 14.376	229.00	200.50	190.95	186.45	181.45	177.60	172.00
14.5	.5709	.228	3/16	3	5 1/8	1/2	3510145	2	3511145	208.15	14.377 - 15.164	250.75	222.20	212.65	208.15	203.30	199.30	193.70
15.0	.5906	.228	3/16	3	5 1/8	1/2	3510150	2	3511150	208.15	-	-	-	-	-	-	-	-
15.5	.6102	.228	3/16	3	5 1/8	1/2	3510155	2	3511155	190.90	15.165 - 15.951	233.45	204.95	195.45	190.90	186.20	182.20	176.60
16.0	.6299	.228	3/16	3	5 1/8	1/2	3510160	2	3511160	190.90	15.952 - 16.739	233.45	204.95	195.45	190.90	186.20	182.20	176.60
16.5	.6496	.228	3/16	3	5 1/8	1/2	3510165	2	3511165	218.55	-	-	-	-	-	-	-	-
17.0	.6693	.228	3/16	3	5 1/8	1/2	3510170	2	3511170	200.40	16.740 - 17.551	242.90	214.50	204.95	200.40	195.50	191.55	186.20
17.5	.6890	.228	3/16	3	5 1/8	1/2	3510175	2	3511175	200.40	-	-	-	-	-	-	-	-
18.0	.7087	.290	1/4	3	5 3/8	1/2	3510180	2	3511180	222.05	17.552 - 18.339	264.50	236.00	226.55	222.05	217.20	213.20	207.50
18.5	.7283	.290	1/4	3	5 3/8	1/2	3510185	2	3511185	203.35	18.340 - 19.126	246.00	217.60	208.00	203.35	198.70	194.60	189.10
19.0	.7480	.290	1/4	3	5 3/8	1/2	3510190	2	3511190	203.35	-	-	-	-	-	-	-	-
19.5	.7677	.290	1/4	3	5 3/8	5/8	3510195	2	3511195	225.35	19.127 - 19.914	268.00	239.25	230.00	225.35	220.45	216.60	211.00
20.0	.7874	.290	1/4	3	5 3/8	5/8	3510200	2	3511200	206.70	19.915 - 20.726	249.25	220.75	211.15	206.70	201.85	197.85	192.35
20.5	.8071	.290	1/4	3	5 3/8	5/8	3510205	2	3511205	206.70	-	-	-	-	-	-	-	-
21.0	.8268	.290	1/4	3	5 3/8	3/4	3510210	2	3511210	236.00	20.727 - 21.514	278.65	250.10	240.55	236.00	231.20	227.25	221.60
21.5	.8465	.290	1/4	3	5 3/8	3/4	3510215	2	3511215	236.00	-	-	-	-	-	-	-	-
22.0	.8661	.290	1/4	3	5 3/8	3/4	3510220	2	3511220	216.30	21.515 - 22.301	258.85	230.35	221.00	216.30	211.40	207.45	201.95
22.5	.8858	.290	1/4	3	6 1/8	3/4	3510225	3	3511225	241.90	22.302 - 23.089	284.55	256.00	246.40	241.90	237.00	233.25	227.50
23.0	.9055	.290	1/4	3	6 1/8	3/4	3510230	3	3511230	241.90	-	-	-	-	-	-	-	-
23.5	.9252	.290	1/4	3	6 1/8	3/4	3510235	3	3511235	221.50	23.090 - 23.901	264.15	235.55	226.20	221.50	216.75	212.80	207.20
24.0	.9449	.353	5/16	3	6 3/8	3/4	3510240	3	3511240	247.00	23.902 - 24.689	289.55	261.10	251.50	247.00	242.20	238.35	232.60
24.5	.9646	.353	5/16	3	6 3/8	3/4	3510245	3	3511245	247.00	-	-	-	-	-	-	-	-
25.0	.9843	.353	5/16	3	6 3/8	3/4	3510250	3	3511250	226.25	24.690 - 25.476	268.90	240.40	230.90	226.25	221.45	217.65	212.05
25.5	1.0039	.353	5/16	3	6 3/8	3/4	3510255	3	3511255	237.60	25.477 - 27.076	281.75	252.20	242.30	237.60	232.60	228.60	222.70
26.0	1.0236	.353	5/16	3	6 3/8	3/4	3510260	3	3511260	237.60	-	-	-	-	-	-	-	-
27.0	1.0630	.353	5/16	3	6 3/8	3/4	3510270	3	3511270	237.60	-	-	-	-	-	-	-	-
28.0	1.1024	.353	5/16	3	6 3/8	1	3510280	3	3511280	244.55	27.077 - 28.651	288.70	259.15	249.35	244.55	239.60	235.50	229.75
29.0	1.1417	.353	5/16	3	6 3/8	1	3510290	3	3511290	252.20	28.652 - 30.239	296.45	266.85	257.05	252.20	247.30	243.20	237.30
30.0	1.1811	.353	5/16	3	6 3/8	1	3510300	3	3511300	252.20	-	-	-	-	-	-	-	-
31.0	1.2205	.426	3/8	4	6 5/8	1	3510310	3	3511310	279.80	30.240 - 31.826	327.80	295.65	284.95	279.80	274.50	270.10	263.70
32.0	1.2598	.426	3/8	4	6 5/8	1	3510320	3	3511320	298.55	31.827 - 33.414	346.45	314.35	303.60	298.55	293.05	288.65	282.35
33.0	1.2992	.426	3/8	4	6 5/8	1	3510330	3	3511330	298.55	-	-	-	-	-	-	-	-
34.0	1.3386	.426	3/8	4	6 5/8	1	3510340	3	3511340	311.70	33.415 - 35.001	359.80	327.50	316.90	311.70	306.35	301.85	295.45
35.0	1.3780	.426	3/8	4	6 5/8	1	3510350	3	3511350	311.70	-	-	-	-	-	-	-	-
36.0	1.4173	.426	3/8	4	7 7/8	1 1/4	3510360	4	3511360	346.10	35.002 - 36.589	398.25	363.40	351.85	346.10	340.20	335.50	328.55
37.0	1.4567	.426	3/8	4	7 7/8	1 1/4	3510370	4	3511370	381.35	36.590 - 38.176	433.40	398.50	386.85	381.35	375.50	370.65	363.85
38.0	1.4961	.426	3/8	4	7 7/8	1 1/4	3510380	4	3511380	381.35	-	-	-	-	-	-	-	-

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CARBIDE TIPPED AIRCRAFT/REDUCED SHANK COUNTERBORES

TYPE 3522 - STRAIGHT SHANK - THREE FLUTES

Carbide tips brazed to alloy steel bodies. Polished flutes.

For counterboring and spotfacing composites, non-metals, and non-ferrous materials used in airframe manufacturing.



Tool diameter tolerance: +.001"/-.000".
Shank diameter tolerance: +.0000"/-.001".
Corner radius: 1/64".

TOOL DIAMETER		MIN. CUT DIAM.	PILOT HOLE DIAM.	NO. OF FLUTES	SMALL SHANK DIAM.	OVER ALL LENGTH	EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL									1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.2500	1/4	.125	3/32	3	1/4	2 3/8	352208	\$94.20	.2381 - .2530	\$160.20	\$127.40	\$116.20	\$111.00	\$105.40	\$100.75
.2812	9/32	.125	3/32	3	1/4	2 3/8	352209	94.35	.2531 - .2840	160.35	127.45	116.40	111.05	105.45	100.95
.3125	5/16	.125	3/32	3	1/4	2 3/8	352210	96.85	.2841 - .3150	162.90	129.75	118.70	113.25	107.80	103.35
.3438	11/32	.125	3/32	3	1/4	2 3/8	352211	98.75	.3151 - .3470	164.80	131.60	120.75	115.30	109.75	105.30
.3750	3/8	.125	3/32	3	1/4	2 3/8	352212	99.05	.3471 - .3780	164.95	131.90	121.10	115.60	109.90	105.45
.4062	13/32	.156	1/8	3	1/4	2 3/4	352213	112.55	.3781 - .4090	178.40	145.70	134.50	129.20	123.55	119.15
.4375	7/16	.156	1/8	3	1/4	2 3/4	352214	121.35	.4091 - .4410	187.35	154.30	143.40	137.80	132.45	127.85
.4688	15/32	.156	1/8	3	1/4	2 3/4	352215	123.40	.4411 - .4720	189.40	156.35	145.40	140.10	134.40	129.90
.5000	1/2	.156	1/8	3	1/4	2 3/4	352216	124.90	.4721 - .5030	190.95	157.95	146.90	141.35	135.85	131.30
.5312	17/32	.156	1/8	3	1/4	2 3/4	352217	125.55	.5031 - .5340	191.50	158.45	147.50	142.05	136.45	131.90
.5625	9/16	.156	1/8	3	1/4	2 3/4	352218	126.10	.5341 - .5660	192.00	159.15	148.00	142.60	137.15	132.55
.5938	19/32	.156	1/8	3	1/4	2 3/4	352219	126.70	.5661 - .5970	192.85	159.80	148.95	143.40	137.75	133.20
.6250	5/8	.156	1/8	3	1/4	2 3/4	352220	128.15	.5971 - .6280	194.15	161.25	150.15	144.85	139.25	134.55
.6562	21/32	.219	3/16	3	1/4	2 3/4	352221	142.35	.6281 - .6590	208.35	175.30	164.50	159.15	153.45	149.00
.6875	11/16	.219	3/16	3	1/4	2 3/4	352222	149.60	.6591 - .6910	215.55	182.65	171.55	166.15	160.40	156.05
.7188	23/32	.219	3/16	3	1/4	2 3/4	352223	154.60	.6911 - .7220	220.45	187.65	176.55	171.30	165.55	161.20
.7500	3/4	.219	3/16	3	1/4	2 3/4	352224	156.55	.7221 - .7530	222.50	189.60	178.40	173.20	167.60	163.05
.7812	25/32	.219	3/16	3	1/4	2 3/4	352225	157.15	.7531 - .7840	223.25	190.20	179.25	173.65	168.20	163.65
.8125	13/16	.219	3/16	3	1/4	2 3/4	352226	158.55	.7841 - .8160	224.75	191.55	180.60	175.15	169.65	165.05
.8438	27/32	.219	3/16	3	1/4	2 3/4	352227	159.75	.8161 - .8470	225.75	192.50	181.60	176.20	170.65	166.15
.8750	7/8	.219	3/16	3	1/4	2 3/4	352228	161.25	.8471 - .8780	227.20	194.15	183.25	177.80	172.15	167.70
.9062	29/32	.219	3/16	3	1/4	2 3/4	352229	162.25	.8781 - .9090	228.30	195.35	184.45	178.95	173.35	168.80
.9375	15/16	.219	3/16	3	1/4	2 3/4	352230	163.85	.9091 - .9410	229.90	196.95	185.90	180.45	175.00	170.25
.9688	31/32	.219	3/16	3	1/4	2 3/4	352231	164.95	.9411 - .9720	230.95	197.90	187.10	181.50	176.00	171.45
1.0000	1	.219	3/16	3	1/4	2 3/4	352232	165.50	.9721 - 1.0030	231.55	198.55	187.40	182.05	176.35	171.90
1.0625	1 1/16	.219	3/16	3	3/8	2 3/4	352234	211.25	1.0031 - 1.0660	277.15	244.10	233.30	227.70	222.10	217.65
1.1250	1 1/8	.219	3/16	3	3/8	2 3/4	352236	225.35	1.0661 - 1.1280	291.30	258.35	247.45	242.00	236.35	231.80
1.1875	1 3/16	.219	3/16	3	3/8	2 3/4	352238	228.25	1.1281 - 1.1905	294.25	261.25	250.25	244.85	239.25	234.75
1.2500	1 1/4	.281	1/4	3	3/8	2 3/4	352240	232.45	1.1906 - 1.2530	298.70	265.50	254.40	249.05	243.65	239.05
1.3125	1 5/16	.281	1/4	3	3/8	2 3/4	352242	236.80	1.2531 - 1.3155	302.70	269.75	258.85	253.40	247.65	243.20
1.3750	1 3/8	.281	1/4	3	3/8	2 3/4	352244	239.50	1.3156 - 1.3780	305.65	272.75	261.65	256.15	250.70	246.00
1.4375	1 7/16	.281	1/4	3	3/8	2 3/4	352246	242.35	1.3781 - 1.4405	308.50	275.40	264.50	259.00	253.50	248.95
1.5000	1 1/2	.281	1/4	3	3/8	2 3/4	352248	255.25	1.4406 - 1.5030	323.55	289.40	278.00	272.40	266.50	261.95
1.5625	1 9/16	.343	5/16	3	1/2	3 1/16	352250	283.90	1.5031 - 1.5660	352.20	318.10	306.70	301.10	295.35	290.75
1.6250	1 5/8	.343	5/16	3	1/2	3 1/16	352252	287.60	1.5661 - 1.6280	356.10	321.85	310.55	304.90	299.05	294.30
1.6875	1 11/16	.343	5/16	3	1/2	3 1/16	352254	291.35	1.6281 - 1.6910	359.85	325.70	314.25	308.65	302.95	298.15
1.7500	1 3/4	.343	5/16	3	1/2	3 1/16	352256	295.90	1.6911 - 1.7530	364.30	330.00	318.65	313.00	307.30	302.65
1.8125	1 13/16	.343	5/16	3	1/2	3 1/16	352258	299.45	1.7531 - 1.8160	367.20	333.10	321.70	316.10	310.10	305.50
1.8750	1 7/8	.343	5/16	3	1/2	3 1/16	352260	301.55	1.8161 - 1.8780	370.05	335.80	324.30	318.90	313.00	308.30
1.9375	1 15/16	.343	5/16	3	1/2	3 1/16	352262	332.80	1.8781 - 1.9410	401.20	366.95	355.55	349.95	344.15	339.50
2.0000	2	.343	5/16	3	1/2	3 1/16	352264	414.05	1.9411 - 2.0030	482.80	448.55	437.10	431.45	425.65	420.85

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CARBIDE TIPPED RADIAL DRIVE COUNTERBORES

TYPE 3577 - FOR NON-FERROUS & CAST IRON

Carbide tips brazed to hardened alloy steel bodies.

Tools are designed with appropriate carbide grade and tool geometry for machining non-ferrous, cast iron and non-metals.

TYPE 3578 - FOR STEEL

Carbide tips brazed to hardened alloy steel bodies.

Tools are designed with appropriate carbide grade and tool geometry for machining steel and steel alloys.

Both types have 10° right spiral smooth flutes and accept only short shank pilots (see page 36).



Body length = 1 1/2"

Tool diameter tolerance: +.001"/-.000"

TOOL DIAMETER		MIN. CUT DIAM.	PILOT HOLE DIAM.	RADIAL DRIVE SIZE	LARGE SHANK DIAM.	NO. OF FLTS.	OVER ALL LENGTH	N-F/C.I. TYPE 3577 EDP NO.	STEEL TYPE 3578 EDP NO.	BOTH TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DEC.	FRAC.											1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.5000	1/2	.219	3/16	RB	5/8	3	2 7/8	357716	357816	\$269.65	.4721 - .5030	\$394.25	\$332.20	\$311.30	\$301.00	\$290.60	\$281.95
.5625	9/16	.219	3/16	RB	5/8	3	2 7/8	357718	357818	269.65	.5341 - .5660	394.25	332.20	311.30	301.00	290.60	281.95
.6250	5/8	.219	3/16	RB	5/8	3	2 7/8	357720	357820	269.65	.5971 - .6280	394.25	332.20	311.30	301.00	290.60	281.95
.6875	11/16	.297	1/4	RB	5/8	3	2 7/8	357722	357822	269.65	.6591 - .6910	394.25	332.20	311.30	301.00	290.60	281.95
.7500	3/4	.297	1/4	RB	5/8	4	2 7/8	357724	357824	269.65	.7221 - .7530	394.25	332.20	311.30	301.00	290.60	281.95
.8125	13/16	.297	1/4	RB	5/8	4	2 7/8	357726	357826	274.80	.7841 - .8160	399.40	337.20	316.25	306.15	295.75	287.00
.8750	7/8	.297	1/4	RB	5/8	4	2 7/8	357728	357828	274.80	.8471 - .8780	399.40	337.20	316.25	306.15	295.75	287.00
.9375	15/16	.297	1/4	RB	5/8	4	2 7/8	357730	357830	290.90	.9091 - .9410	415.50	353.20	332.35	322.10	311.70	303.15
1.0000	1	.297	1/4	RB	5/8	4	2 7/8	357732	357832	290.90	.9721 - 1.0030	415.50	353.20	332.35	322.10	311.70	303.15
1.0000	1	.359	5/16	RC	3/4	4	2 7/8	357733	357833	296.05	.9721 - 1.0030	420.65	358.35	337.50	327.25	316.80	308.25
1.0625	1 1/16	.359	5/16	RC	3/4	4	2 7/8	357734	357834	296.05	1.0031 - 1.0660	420.65	358.35	337.50	327.25	316.80	308.25
1.1250	1 1/8	.359	5/16	RC	3/4	4	2 7/8	357736	357836	296.05	1.0661 - 1.1280	420.65	358.35	337.50	327.25	316.80	308.25
1.1875	1 3/16	.359	5/16	RC	3/4	4	2 7/8	357738	357838	316.80	1.1281 - 1.1905	441.35	379.05	358.35	348.05	337.65	329.10
1.2500	1 1/4	.359	5/16	RC	3/4	4	2 7/8	357740	357840	316.80	1.1906 - 1.2530	441.35	379.05	358.35	348.05	337.65	329.10
1.3125	1 5/16	.359	5/16	RC	3/4	4	2 7/8	357742	357842	316.80	1.2531 - 1.3155	441.35	379.05	358.35	348.05	337.65	329.10
1.3750	1 3/8	.359	5/16	RC	3/4	4	2 7/8	357744	357844	316.80	1.3156 - 1.3780	441.35	379.05	358.35	348.05	337.65	329.10
1.3750	1 3/8	.359	5/16	RE	1	4	3	357745	357845	343.65	1.3151 - 1.3780	468.00	405.85	385.10	374.75	364.30	355.65
1.5000	1 1/2	.359	5/16	RE	1	4	3	357748	357848	385.45	1.4406 - 1.5030	510.10	447.90	427.10	416.90	406.50	397.80
1.5000	1 1/2	.484	7/16	RF	1 1/8	4	3 1/16	357749	357849	401.25	1.4406 - 1.5030	526.05	463.60	442.90	432.60	422.20	413.55
1.6250	1 5/8	.359	5/16	RE	1	4	3	357752	357852	401.25	1.5661 - 1.6280	526.05	463.60	442.90	432.60	422.20	413.55
1.6250	1 5/8	.484	7/16	RF	1 1/8	4	3 1/16	357753	357853	412.20	1.5661 - 1.6280	536.75	474.55	453.75	443.50	433.10	424.50
1.7500	1 3/4	.484	7/16	RF	1 1/8	6	3 1/16	357756	357856	506.75	1.6911 - 1.7530	631.30	569.05	548.30	538.00	527.70	519.05
1.8750	1 7/8	.484	7/16	RF	1 1/8	6	3 1/16	357760	357860	533.40	1.8161 - 1.8780	657.95	595.75	575.05	564.70	554.15	545.55
2.0000	2	.484	7/16	RF	1 1/8	6	3 1/16	357764	357864	580.95	1.9411 - 2.0030	705.70	643.35	622.45	612.25	601.85	593.20
2.0000	2	.563	1/2	RJ	1 3/8	6	3 1/16	357765	357865	580.95	1.9411 - 2.0030	705.70	643.35	622.45	612.25	601.85	593.20
2.1250	2 1/8	.563	1/2	RJ	1 3/8	6	3 1/16	357768	357868	596.65	2.0661 - 2.1280	721.35	659.25	638.40	628.15	617.75	609.05
2.2500	2 1/4	.563	1/2	RJ	1 3/8	6	3 1/16	357772	357872	622.95	2.1906 - 2.2530	747.50	685.30	664.50	654.20	643.80	635.25
2.3750	2 3/8	.563	1/2	RJ	1 3/8	6	3 1/16	357776	357876	657.50	2.3156 - 2.3780	786.85	722.20	700.55	690.15	679.00	670.00
2.5000	2 1/2	.563	1/2	RJ	1 3/8	6	3 1/16	357780	357880	685.20	2.4406 - 2.5030	814.65	750.00	728.35	717.70	707.00	697.95
2.6250	2 5/8	.563	1/2	RJ	1 3/8	6	3 1/16	357784	357884	701.00	2.5661 - 2.6280	830.50	765.85	744.05	733.50	722.70	713.80
2.7500	2 3/4	.563	1/2	RS	1 3/4	6	3 1/8	357788	357888	712.35	2.6911 - 2.7530	841.55	777.10	755.45	744.75	734.10	725.05
2.8750	2 7/8	.563	1/2	RS	1 3/4	6	3 1/8	357792	357892	750.75	2.8161 - 2.8780	880.20	815.50	793.95	783.15	772.40	763.45
3.0000	3	.563	1/2	RS	1 3/4	6	3 1/8	357796	357896	805.55	2.9411 - 3.0030	934.80	870.20	848.60	838.00	827.20	818.20

CARBIDE TIPPED PIN DRIVE COUNTERBORES

TYPE 3573 - FOR NON-FERROUS & CAST IRON

Carbide tips brazed to hardened alloy steel bodies.

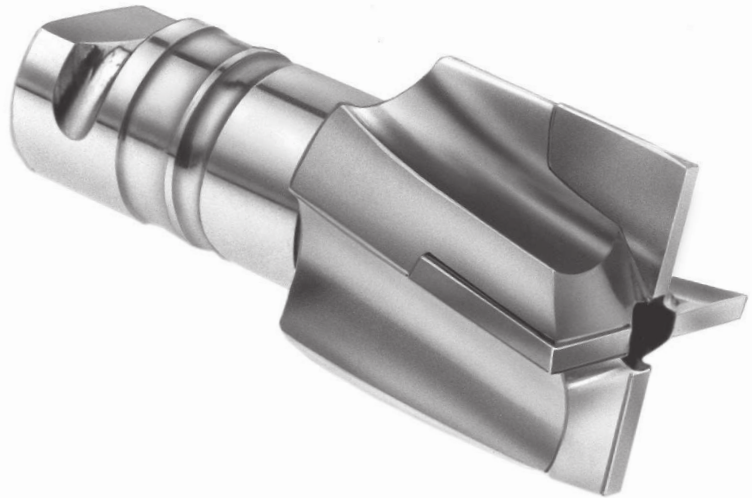
Tools are designed with appropriate carbide grade and tool geometry for machining non-ferrous, cast iron and non-metals.

TYPE 3574 - FOR STEEL

Carbide tips brazed to hardened alloy steel bodies.

Tools are designed with appropriate carbide grade and tool geometry for machining steel and steel alloys.

Both types have 10° right spiral smooth flutes and accept short or long threaded shank pilots. For short shank pilots, see page 36. For long threaded shank pilots, contact us for price and availability. Pin drive shanks can also be used in straight shank holders or collets.



Tool diameter tolerance: +.001"/-.000".
Body length: 1 3/8".

TOOL DIAMETER		MIN. CUT DIAM.	PILOT HOLE DIAM.	PIN DRIVE NO.	SHANK DIAM.	NO. OF FLTS.	OVER ALL LENGTH	N-F/C.I. TYPE 3573 EDP NO.	STEEL TYPE 3574 EDP NO.	BOTH TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DEC.	FRACTIONAL											1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.5000	1/2	.2188	.1875	1	3/16	3	2 7/8	357316	357416	\$259.05	.4721 - .5030	\$383.70	\$321.40	\$300.40	\$290.20	\$279.75	\$271.05
.5625	9/16	.2188	.1875	1	3/16	3	2 7/8	357318	357418	259.05	.5341 - .5660	383.70	321.40	300.40	290.20	279.75	271.05
.6250	5/8	.2188	.1875	1	3/16	3	2 7/8	357320	357420	259.05	.5971 - .6280	383.70	321.40	300.40	290.20	279.75	271.05
.6875	11/16	.2969	.2500	1	3/16	3	2 7/8	357322	357422	243.30	.6591 - .6910	368.00	305.60	284.90	274.75	264.25	255.50
.7500	3/4	.2969	.2500	1	3/16	3	2 7/8	357324	357424	243.30	.7221 - .7530	368.00	305.60	284.90	274.75	264.25	255.50
.8125	13/16	.2969	.2500	1	3/16	4	2 7/8	357326	357426	243.30	.7841 - .8160	368.00	305.60	284.90	274.75	264.25	255.50
.8750	7/8	.2969	.2500	1	3/16	4	2 7/8	357328	357428	243.30	.8471 - .8780	368.00	305.60	284.90	274.75	264.25	255.50
.9375	15/16	.2969	.2500	1	3/16	4	2 7/8	357330	357430	248.80	.9091 - .9410	373.55	311.30	290.45	280.30	269.65	261.05
1.0000	1	.2969	.2500	1	3/16	4	2 7/8	357332	357432	253.50	.9721 - 1.0030	378.05	315.85	294.85	284.60	274.20	265.55
1.0625	1 1/16	.2969	.2500	1	3/16	4	2 7/8	357334	357434	280.30	1.0031 - 1.0660	404.70	342.55	321.80	311.45	301.00	292.35
1.0625	1 1/16	.3594	.3125	2	7/8	4	3	357335	357435	296.05	1.0031 - 1.0660	420.65	358.35	337.50	327.25	316.80	308.25
1.1250	1 1/8	.2969	.2500	1	3/16	4	2 7/8	357336	357436	280.30	1.0661 - 1.1280	404.70	342.55	321.80	311.45	301.00	292.35
1.1250	1 1/8	.3594	.3125	2	7/8	4	3	357337	357437	296.05	1.0661 - 1.1280	420.65	358.35	337.50	327.25	316.80	308.25
1.1875	1 3/16	.3594	.3125	2	7/8	4	3	357338	357438	306.85	1.1281 - 1.1905	431.60	369.30	348.40	338.10	327.70	319.15
1.2500	1 1/4	.3594	.3125	2	7/8	4	3	357340	357440	306.85	1.1906 - 1.2530	431.60	369.30	348.40	338.10	327.70	319.15
1.3125	1 1/8	.3594	.3125	2	7/8	4	3	357342	357442	311.70	1.2531 - 1.3155	436.45	374.15	353.20	342.95	332.55	323.95
1.3750	1 3/8	.3594	.3125	2	7/8	4	3	357344	357444	311.70	1.3156 - 1.3780	436.45	374.15	353.20	342.95	332.55	323.95
1.4375	1 7/16	.3594	.3125	2	7/8	4	3	357346	357446	327.50	1.3781 - 1.4405	452.00	389.85	368.90	358.65	348.20	339.55
1.5000	1 1/2	.3594	.3125	2	7/8	4	3	357348	357448	343.65	1.4406 - 1.5030	468.00	405.85	385.10	374.75	364.30	355.65
1.5625	1 5/8	.3594	.3125	2	7/8	4	3	357350	357450	369.45	1.5031 - 1.5660	494.05	431.75	411.05	400.65	390.30	381.60
1.6250	1 3/4	.3594	.3125	2	7/8	4	3	357352	357452	385.45	1.5661 - 1.6280	510.10	447.90	427.10	416.90	406.50	397.80
1.6875	1 11/16	.3594	.3125	2	7/8	4	3	357354	357454	401.25	1.6281 - 1.6910	526.05	463.60	442.90	432.60	422.20	413.55
1.7500	1 3/4	.3594	.3125	2	7/8	4	3	357356	357456	422.65	1.6911 - 1.7530	547.10	484.85	464.15	453.85	443.50	434.90
1.7500	1 3/4	.4844	.4375	3	1 1/4	6	3 1/16	357357	357457	481.00	1.6911 - 1.7530	605.85	543.45	522.60	512.35	502.05	493.35
1.8750	1 7/8	.4844	.4375	3	1 1/4	6	3 1/16	357360	357460	481.00	1.8161 - 1.8780	605.85	543.45	522.60	512.35	502.05	493.35
2.0000	2	.4844	.4375	3	1 1/4	6	3 1/16	357364	357464	544.55	1.9411 - 2.0030	669.05	606.90	586.05	575.90	565.25	556.65
2.1250	2 1/8	.4844	.4375	3	1 1/4	6	3 1/16	357368	357468	559.70	2.0661 - 2.1280	684.15	622.00	601.15	590.90	580.50	571.90
2.2500	2 1/4	.4844	.4375	3	1 1/4	6	3 1/16	357372	357472	580.95	2.1906 - 2.2530	705.70	643.35	622.45	612.25	601.85	593.20
2.3750	2 3/8	.4844	.4375	3	1 1/4	6	3 1/16	357376	357476	651.80	2.3156 - 2.3780	781.30	716.50	695.10	684.30	673.50	664.60
2.5000	2 1/2	.5625	.5000	3	1 1/4	6	3 1/16	357380	357480	701.00	2.4406 - 2.5030	830.50	765.85	744.05	733.50	722.70	713.80
2.7500	2 3/4	.5625	.5000	3	1 1/4	6	3 1/16	357388	357488	778.25	2.6911 - 2.7530	907.60	842.90	821.20	810.60	799.80	790.95
3.0000	3	.5625	.5000	3	1 1/4	6	3 1/16	357396	357496	822.15	2.9411 - 3.0030	951.65	886.95	865.40	854.70	844.00	835.00

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CARBIDE TIPPED STUB TAPER SHANK COUNTERBORES

TYPE 3575 - FOR NON-FERROUS & CAST IRON

Carbide tips brazed to hardened alloy steel bodies.

Tools are designed with appropriate carbide grade and tool geometry for machining non-ferrous, cast iron and non-metals.

TYPE 3576 - FOR STEEL

Carbide tips brazed to hardened alloy steel bodies.

Tools are designed with appropriate carbide grade and tool geometry for machining steel and steel alloys.

Both types have 10° right spiral smooth flutes and accept only short shank pilots (see page 36).



Tool diameter tolerance: +.001"/-.000".

Stub taper dimensions conform to ASME/ANSI B5.10 specifications.

Body length = 1 1/4" thru 1.9410" tool diameter.

= 1 1/2" above 1.9410" tool diameter.

TOOL DIAMETER		MIN. CUT DIAM.	PILOT HOLE DIAM.	STUB TAPER NO.	NO. OF FLTS.	OVER ALL LENGTH	N-F/C.I. TYPE 3575 EDP NO.	STEEL TYPE 3576 EDP NO.	BOTH TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRAC.										1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.5000	1/2	.2188	.1875	1	3	2 1/16	357516	357616	301.05	.4721 - .5030	\$415.70	\$358.50	\$339.25	\$329.85	\$320.15	\$312.30
.5625	9/16	.2188	.1875	1	3	2 1/16	357518	357618	301.05	.5341 - .5660	415.70	358.50	339.25	329.85	320.15	312.30
.6250	5/8	.2188	.1875	1	3	2 1/16	357520	357620	301.05	.5971 - .6280	415.70	358.50	339.25	329.85	320.15	312.30
.6875	11/16	.2188	.1875	1	3	2 1/16	357522	357622	301.05	.6591 - .6910	415.70	358.50	339.25	329.85	320.15	312.30
.7500	3/4	.2969	.2500	2	4	2 7/8	357524	357624	282.15	.7221 - .7530	396.80	339.65	320.40	311.00	301.45	293.45
.8125	13/16	.2969	.2500	2	4	2 7/8	357526	357626	282.15	.7841 - .8160	396.80	339.65	320.40	311.00	301.45	293.45
.8750	7/8	.2969	.2500	2	4	2 7/8	357528	357628	282.15	.8471 - .8780	396.80	339.65	320.40	311.00	301.45	293.45
.9375	15/16	.2969	.2500	2	4	2 7/8	357530	357630	272.10	.9091 - .9410	386.85	329.50	310.40	301.00	291.35	283.45
1.0000	1	.3594	.3125	2	4	2 7/8	357532	357632	272.10	.9721 - 1.0030	386.85	329.50	310.40	301.00	291.35	283.45
1.0625	1 1/16	.3594	.3125	2	4	2 7/8	357534	357634	272.10	1.0031 - 1.0660	386.85	329.50	310.40	301.00	291.35	283.45
1.1250	1 1/8	.3594	.3125	2	4	2 7/8	357536	357636	272.10	1.0661 - 1.1280	386.85	329.50	310.40	301.00	291.35	283.45
1.1875	1 3/16	.3594	.3125	2	4	2 7/8	357538	357638	282.15	1.1281 - 1.1905	396.80	339.65	320.40	311.00	301.45	293.45
1.2500	1 1/4	.3594	.3125	2	4	2 7/8	357540	357640	282.15	1.1906 - 1.2530	396.80	339.65	320.40	311.00	301.45	293.45
1.3125	1 5/16	.3594	.3125	2	4	2 7/8	357542	357642	286.65	1.2531 - 1.3155	401.30	344.05	324.85	315.30	305.90	297.90
1.3750	1 3/8	.3594	.3125	2	4	2 7/8	357544	357644	315.95	1.3156 - 1.3780	430.50	373.35	354.10	344.65	335.20	327.25
1.4375	1 7/16	.3594	.3125	2	4	2 7/8	357546	357646	345.10	1.3781 - 1.4405	459.70	402.40	383.25	373.75	364.15	356.05
1.5000	1 1/2	.3594	.3125	2	4	2 7/8	357548	357648	373.90	1.4406 - 1.5030	488.70	431.35	412.35	402.80	393.25	385.25
1.5625	1 9/16	.4844	.4375	3	6	3 3/16	357550	357650	398.25	1.5031 - 1.5660	512.95	455.55	436.50	427.20	417.50	409.65
1.6250	1 5/8	.4844	.4375	3	6	3 3/16	357552	357652	447.00	1.5661 - 1.6280	561.50	504.25	485.20	475.65	465.95	458.05
1.6875	1 11/16	.4844	.4375	3	6	3 3/16	357554	357654	485.50	1.6281 - 1.6910	600.20	542.95	523.85	514.45	504.80	496.90
1.7500	1 3/4	.4844	.4375	3	6	3 3/16	357556	357656	524.45	1.6911 - 1.7530	639.00	581.80	562.70	553.25	543.55	535.75
1.8125	1 13/16	.4844	.4375	3	6	3 3/16	357558	357658	553.80	1.7531 - 1.8160	668.50	611.25	591.90	582.60	573.05	565.10
1.8750	1 7/8	.4844	.4375	3	6	3 3/16	357560	357660	582.75	1.8161 - 1.8780	697.40	640.00	620.95	611.40	601.75	593.80
1.9375	1 15/16	.4844	.4375	3	6	3 3/16	357562	357662	612.15	1.8781 - 1.9410	726.80	669.45	650.35	640.85	631.30	623.25
2.0000	2	.5625	.5000	4	6	3 3/4	357564	357664	640.95	1.9411 - 2.0030	755.50	698.45	679.20	669.80	660.30	652.20
2.1250	2 1/8	.5625	.5000	4	6	3 3/4	357568	357668	660.45	2.0661 - 2.1280	775.10	717.80	698.60	689.25	679.70	671.65
2.2500	2 1/4	.5625	.5000	4	6	3 3/4	357572	357672	679.60	2.1906 - 2.2530	794.20	736.95	717.70	708.30	698.60	690.75
2.3750	2 3/8	.5625	.5000	4	6	3 3/4	357576	357676	730.80	2.3156 - 2.3780	849.60	790.15	770.40	760.60	750.65	742.50
2.5000	2 1/2	.5625	.5000	4	6	3 3/4	357580	357680	756.20	2.4406 - 2.5030	875.25	815.80	795.95	786.15	776.25	767.90
2.7500	2 3/4	.5625	.5000	4	6	3 3/4	357588	357688	796.40	2.6911 - 2.7530	915.30	855.85	835.90	826.20	816.30	808.05
3.0000	3	.5625	.5000	4	6	3 3/4	357596	357696	836.60	2.9411 - 3.0030	955.35	896.15	876.20	866.35	856.40	848.25

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*Quantities of 15 or more: price of fractional size in same size range.

Made in U.S.A.

SOLID CARBIDE HEAD REAMERS

TYPE 3801 - STRAIGHT STEEL SHANK - STRAIGHT FLUTES - FOR NON-FERROUS TYPE 3800 - STRAIGHT STEEL SHANK - STRAIGHT FLUTES - FOR CAST IRON & STEEL

Solid carbide head brazed to hardened alloy steel shank on tool diameters .1911" and larger.
Solid carbide head and shank on diameters .1910" and below.
Tool geometry appropriate for material being machined.

We recommend our Carbide Tipped Reamers Type 3480 (page 78) or Type 3459 (page 94) for better performance when reaming cast steels and tough steel alloys. The carbide grade and tool geometry are appropriate for these materials. Diameters 7/64" and below provided with male centers.



Tool diameter tolerance thru .2500": +.0002"/-.0000".
over .2500": +.0003"/-.0000".
Shank diameter tolerance: +.0000"/-.0010".

For closer tool diameter tolerance pricing, see page 60.

TOOL DIAMETER		MAX. SHANK DIAM.	NO. OF FLUTES	LENGTH		NON-FERR. TYPE 3801 EDP NO.	C.I./STEEL TYPE 3800 EDP NO.	BOTH TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL			FLUTE	OAL					1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14**
*.0938	3/32	.0800	4	3/4	3	-	380099	-	.0811 - .0890	\$122.60	\$90.65	\$79.60	\$74.70	\$69.00	\$64.85
*.1094	7/64	.0943	4	7/8	3 1/2	-	380007	58.60	.0891 - .0970	122.60	90.65	79.60	74.70	69.00	64.85
*.1250	1/8	.1099	4	7/8	3 1/2	380108	380008	58.60	.0971 - .1120	122.60	90.65	79.60	74.70	69.00	64.85
*.1406	9/64	.1255	4	7/8	3 1/2	380109	380009	67.00	.1121 - .1280	122.60	90.65	79.60	74.70	69.00	64.85
*.1562	5/32	.1411	4	1	4	380110	380010	68.85	.1281 - .1435	131.00	98.90	88.05	83.00	77.55	73.20
*.1719	11/64	.1567	4	1	4	380111	380011	77.65	.1436 - .1590	132.85	100.85	89.95	84.95	79.40	75.30
*.1875	3/16	.1724	4	1 1/8	4 1/2	380112	380012	79.30	.1591 - .1750	141.50	109.70	98.90	93.75	88.30	84.00
.2031	13/64	.1880	6	1 1/4	5	380113	380013	84.50	.1751 - .1910	143.35	111.30	100.40	95.40	89.90	85.75
.2188	7/32	.1880	6	1 1/4	5	380114	380014	84.50	-	-	-	-	-	-	-
.2344	15/64	.2193	6	1 1/2	6	380115	380015	89.90	.1911 - .2210	148.55	116.60	105.85	100.60	95.10	90.95
.2500	1/4	.2193	6	1 1/2	6	380116	380016	89.90	-	-	-	-	-	-	-
.2656	17/64	.2505	6	1 1/2	6	380117	380017	96.70	.2211 - .2530	153.90	121.80	111.15	106.15	100.40	96.25
.2812	9/32	.2505	6	1 1/2	6	380118	380018	96.70	-	-	-	-	-	-	-
.2969	19/64	.2817	6	1 5/8	6	380119	380019	100.60	.2531 - .2840	160.55	128.65	117.85	112.85	107.35	103.05
.3125	5/16	.2817	6	1 5/8	6	380120	380020	100.60	-	-	-	-	-	-	-
.3281	21/64	.3130	6	1 5/8	6	380121	380021	107.75	.2841 - .3150	164.60	132.60	121.80	116.75	111.30	106.90
.3438	11/32	.3130	6	1 5/8	6	380122	380022	107.75	-	-	-	-	-	-	-
.3594	23/64	.3443	6	1 3/4	7	380123	380023	115.80	.3151 - .3470	171.60	139.55	128.75	123.60	118.25	114.00
.3750	3/8	.3443	6	1 3/4	7	380124	380024	115.80	-	-	-	-	-	-	-
.3906	25/64	.3755	6	1 3/4	7	380125	380025	132.30	.3471 - .3780	179.70	147.65	136.90	131.90	126.40	122.15
.4062	13/32	.3755	6	1 3/4	7	380126	380026	132.30	-	-	-	-	-	-	-
.4219	27/64	.4067	6	1 3/4	7	380127	380027	140.60	.3781 - .4090	196.25	164.20	153.60	148.50	142.95	138.55
.4375	7/16	.4067	6	1 3/4	7	380128	380028	140.60	-	-	-	-	-	-	-
.4531	29/64	.4380	6	1 3/4	8	380129	380029	149.00	.4091 - .4410	204.50	172.35	161.80	156.70	151.10	146.75
.4688	15/32	.4380	6	1 3/4	8	380130	380030	149.00	-	-	-	-	-	-	-
.4844	31/64	.4693	6	1 3/4	8	380131	380031	159.95	.4411 - .4720	213.05	180.90	170.25	165.20	159.75	155.30
.5000	1/2	.4693	6	1 3/4	8	380132	380032	159.95	-	-	-	-	-	-	-
.5156	33/64	.5005	6	1 7/8	9	380133	380033	206.40	.4721 - .5030	224.10	191.95	181.05	176.05	170.55	166.30
.5312	17/32	.5005	6	1 7/8	9	380134	380034	206.40	-	-	-	-	-	-	-
.5469	35/64	.5005	6	1 7/8	9	380135	380035	243.60	.5031 - .5340	270.25	238.20	227.65	222.50	216.90	212.60
.5625	9/16	.5005	6	1 7/8	9	380136	380036	239.20	-	-	-	-	-	-	-
.5781	37/64	.5630	6	1 7/8	9	380137	380037	271.40	.5341 - .5660	301.95	270.35	259.85	254.90	249.50	245.30
.5938	19/32	.5630	6	1 7/8	9	380138	380038	271.40	-	-	-	-	-	-	-
.6094	39/64	.5630	6	1 7/8	9	380139	380039	274.50	.5661 - .5970	334.25	302.80	292.20	287.15	281.85	277.55
.6250	5/8	.5630	6	1 7/8	9	380140	380040	274.50	-	-	-	-	-	-	-
.6562	21/32	.6255	6	2	9 1/2	380142	380042	397.05	.5971 - .6280	337.20	305.65	295.35	290.30	284.95	280.55
.6875	11/16	.6255	6	2	9 1/2	380144	380044	397.05	.6281 - .6590	456.80	426.85	416.85	412.10	407.55	402.85
.7188	23/32	.6880	6	2	9 1/2	380146	380046	446.80	.6591 - .6910	456.80	426.85	416.85	412.10	407.55	402.85
.7500	3/4	.6880	6	2	9 1/2	380148	380048	446.80	.6911 - .7220	506.50	476.50	466.60	461.75	457.30	452.60
.7812	25/32	.7505	8	2	10	380150	380050	496.00	.7221 - .7530	506.50	476.50	466.60	461.75	457.30	452.60
.8125	13/16	.7817	8	2	10	380152	380052	541.15	.7531 - .7840	555.65	525.70	515.75	511.00	506.35	501.70
.8438	27/32	.8130	8	2	10	380154	380054	570.70	.7841 - .8160	600.85	570.85	560.95	556.20	551.65	546.95
.8750	7/8	.8440	8	2	10	380156	380056	558.75	.8161 - .8470	630.45	600.50	590.50	585.75	581.15	576.55
.9062	29/32	.8755	8	2	10	380158	380058	653.80	.8471 - .8780	618.50	588.45	578.55	573.80	569.20	564.50
.9375	15/16	.9067	8	2	10	380160	380060	687.30	.8781 - .9090	713.50	683.50	673.60	668.85	664.20	659.60
.9688	31/32	.9380	8	2	10	380162	380062	719.85	.9091 - .9410	746.95	717.00	707.00	702.25	697.70	693.05
1.0000	1	.9693	8	2	10	380164	380064	747.00	.9411 - .9720	779.60	749.65	739.65	734.90	730.30	725.60
									.9721 - 1.0030	806.75	776.80	766.80	762.05	757.50	752.80

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SOLID CARBIDE HEAD SPIRAL REAMERS

TYPE 3811 - STRAIGHT STEEL SHANK - RIGHT SPIRAL FLUTES - FOR NON-FERROUS TYPE 3810 - STRAIGHT STEEL SHANK - RIGHT SPIRAL FLUTES - FOR CAST IRON & STEEL

Solid carbide head brazed to hardened alloy steel shank on tool diameters of .1911" and larger. Tool geometry appropriate for material being machined.

Ground with spiral flutes for reaming blind holes with interruptions such as keyways, slots or intersecting holes.



TYPE 3821 - STRAIGHT STEEL SHANK - LEFT SPIRAL FLUTES - FOR NON-FERROUS TYPE 3820 - STRAIGHT STEEL SHANK - LEFT SPIRAL FLUTES - FOR CAST IRON & STEEL

ALL TYPES ON THIS PAGE:

Tool diameter tolerance thru .2500": +.0002"/-.0000"
over .2500": +.0003"/-.0000"

Shank diameter tolerance: +.0000"/-.0010"

For closer tool diameter tolerance pricing, see page 60.

Same as Types 3810 & 3811, except left spiral flutes.
Used in through holes only.



TOOL DIAMETER		MAX. SHANK DIAM.	NO. OF FLTS.	LENGTH		RIGHT SPIRAL		LEFT SPIRAL		ALL TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DEC.	FRAC.			FLT	OAL	NON-FERR. TYPE 3811 EDP NO.	C.I./STEEL TYPE 3810 EDP NO.	NON-FERR. TYPE 3821 EDP NO.	C.I./STEEL TYPE 3820 EDP NO.			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14**
.1250	1/8*	.1099	4	7/8	3 1/2	381108	381008	382108	382008	\$59.80	.1121 - .1280	\$113.50	\$86.65	\$77.50	\$73.25	\$68.55	\$65.10
.1406	9/64*	.1255	4	7/8	3 1/2	381109	381009	382109	382009	68.25	.1281 - .1435	121.95	95.05	86.05	81.80	77.25	73.65
.1562	5/32*	.1411	4	1	4	381110	381010	382110	382010	70.55	.1436 - .1590	124.15	97.15	88.15	83.90	79.25	75.70
.1719	11/64*	.1567	4	1	4	381111	381011	382111	382011	87.25	.1591 - .1750	146.45	116.80	106.80	102.20	97.15	93.30
.1875	3/16*	.1724	4	1 1/8	4 1/2	381112	381012	382112	382012	89.15	.1751 - .1910	148.00	118.60	108.65	104.05	98.95	94.95
.2031	13/64	.1880	6	1 1/4	5	381113	381013	382113	382013	94.95	-	-	-	-	-	-	-
.2188	7/32	.1880	6	1 1/4	5	381114	381014	382114	382014	103.05	.1911 - .2210	167.00	134.95	124.30	119.30	113.55	109.30
.2344	15/64	.2193	6	1 1/2	6	381115	381015	382115	382015	109.75	-	-	-	-	-	-	-
.2500	1/4	.2193	6	1 1/2	6	381116	381016	382116	382016	109.75	.2211 - .2530	173.75	141.50	131.00	125.70	120.20	115.90
.2656	17/64	.2505	6	1 1/2	6	381117	381017	382117	382017	117.85	-	-	-	-	-	-	-
.2812	9/32	.2505	6	1 1/2	6	381118	381018	382118	382018	117.85	.2531 - .2840	181.90	149.90	139.05	133.95	128.45	124.30
.2969	19/64	.2817	6	1 5/8	6	381119	381019	382119	382019	122.95	-	-	-	-	-	-	-
.3125	5/16	.2817	6	1 5/8	6	381120	381020	382120	382020	122.95	.2841 - .3150	186.75	154.75	144.10	138.90	133.35	129.05
.3281	21/64	.3130	6	1 5/8	6	381121	381021	382121	382021	131.15	-	-	-	-	-	-	-
.3438	11/32	.3130	6	1 5/8	6	381122	381022	382122	382022	131.15	.3151 - .3470	195.10	163.20	152.35	147.20	141.65	137.50
.3594	23/64	.3443	6	1 3/4	7	381123	381023	382123	382023	141.30	-	-	-	-	-	-	-
.3750	3/8	.3443	6	1 3/4	7	381124	381024	382124	382024	141.30	.3471 - .3780	205.05	172.95	162.40	157.40	151.80	147.35
.3906	25/64	.3755	6	1 3/4	7	381125	381025	382125	382025	161.50	-	-	-	-	-	-	-
.4062	13/32	.3755	6	1 3/4	7	381126	381026	382126	382026	161.50	.3781 - .4090	225.35	193.25	182.55	177.35	172.05	167.60
.4219	27/64	.4067	6	1 3/4	7	381127	381027	382127	382027	171.30	-	-	-	-	-	-	-
.4375	7/16	.4067	6	1 3/4	7	381128	381028	382128	382028	171.30	.4091 - .4410	235.20	203.05	192.50	187.40	181.90	177.50
.4531	29/64	.4380	6	1 3/4	8	381129	381029	382129	382029	181.80	-	-	-	-	-	-	-
.4688	15/32	.4380	6	1 3/4	8	381130	381030	382130	382030	181.80	.4411 - .4720	245.60	213.65	202.90	197.85	192.40	188.00
.4844	31/64	.4693	6	1 3/4	8	381131	381031	382131	382031	194.95	-	-	-	-	-	-	-
.5000	1/2	.4693	6	1 3/4	8	381132	381032	382132	382032	194.95	.4721 - .5030	258.95	226.95	216.20	211.10	205.70	201.30
.5156	33/64	.5005	6	1 7/8	9	381133	381033	382133	382033	231.80	-	-	-	-	-	-	-
.5312	17/32	.5005	6	1 7/8	9	381134	381034	382134	382034	227.50	.5031 - .5340	285.55	256.45	246.70	242.05	237.15	233.40
.5469	35/64	.5005	6	1 7/8	9	381135	381035	382135	382035	268.75	-	-	-	-	-	-	-
.5625	9/16	.5005	6	1 7/8	9	381136	381036	382136	382036	268.75	.5341 - .5660	326.75	297.65	287.90	283.25	278.30	274.35
.5781	37/64	.5630	6	1 7/8	9	381137	381037	382137	382037	304.90	-	-	-	-	-	-	-
.5938	19/32	.5630	6	1 7/8	9	381138	381038	382138	382038	304.90	.5661 - .5970	362.75	333.85	324.15	319.50	314.50	310.65
.6094	39/64	.5630	6	1 7/8	9	381139	381039	382139	382039	308.45	-	-	-	-	-	-	-
.6250	5/8	.5630	6	1 7/8	9	381140	381040	382140	382040	308.45	.5971 - .6280	366.45	337.50	327.55	323.05	318.05	314.10
.6562	21/32	.6255	6	2	9 1/2	381142	381042	382142	382042	446.55	.6281 - .6590	513.80	480.05	468.85	463.45	458.35	453.05
.6875	11/16	.6255	6	2	9 1/2	381144	381044	382144	382044	446.55	.6591 - .6910	513.80	480.05	468.85	463.45	458.35	453.05
.7188	23/32	.6880	6	2	9 1/2	381146	381046	382146	382046	502.45	.6911 - .7220	569.70	535.80	524.65	519.35	514.15	508.85
.7500	3/4	.6880	6	2	9 1/2	381148	381048	382148	382048	502.45	.7221 - .7530	569.70	535.80	524.65	519.35	514.15	508.85
.7812	25/32	.7505	8	2	10	381150	381050	382150	382050	557.80	.7531 - .7840	624.90	591.20	579.95	574.55	569.35	564.20
.8125	13/16	.7817	8	2	10	381152	381052	382152	382052	608.50	.7841 - .8160	675.70	642.00	630.80	625.35	620.20	614.95
.8438	27/32	.8130	8	2	10	381154	381054	382154	382054	641.70	.8161 - .8470	708.90	675.25	664.00	658.70	653.50	648.20
.8750	7/8	.8440	8	2	10	381156	381056	382156	382056	628.30	.8471 - .8780	695.50	661.90	650.60	645.15	640.10	634.80
.9062	29/32	.8755	8	2	10	381158	381058	382158	382058	735.30	.8781 - .9090	802.40	768.80	757.45	752.05	746.95	741.70
.9375	15/16	.9067	8	2	10	381160	381060	382160	382060	772.80	.9091 - .9410	839.90	806.25	795.10	789.65	784.50	779.30
.9688	31/32	.9380	8	2	10	381162	381062	382162	382062	809.45	.9411 - .9720	876.60	842.95	831.85	826.40	821.25	816.05
1.0000	1	.9693	8	2	10	381164	381064	382164	382064	840.00	.9721 - 1.0030	907.20	873.50	862.35	857.10	851.80	846.65

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*Solid carbide head and shank (.0811" - .1910" tool diameters). **Quantities of 15 or more: price of fractional size in same size range.

Made in U.S.A.

SOLID CARBIDE CHUCKING REAMERS

TYPE 3801 - LONG LENGTH - STRAIGHT SHANK - STRAIGHT FLUTES - FOR NON-FERROUS

TYPE 3800 - LONG LENGTH - STRAIGHT SHANK - STRAIGHT FLUTES - FOR CAST IRON & STEEL

Extended length series solid carbide chucking reamers. Tool geometry appropriate for material being machined.



Tool diameter tolerance +.0002"/-.0000".

Shank diameter tolerance: +.0000"/-.0010".

For closer tool diameter tolerance pricing, see page 60.

TOOL DIAMETER		MAX. SHANK DIAM.	NO. OF FLUTES	LENGTH		NON-FERR. TYPE 3801 EDP NO.	C.I./STEEL TYPE 3800 EDP NO.	BOTH TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL			FLUTE	OAL					1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14**
* -	-	.0800	4	3/4	3	-	380099	-	.0811 - .0890	\$122.60	\$90.65	\$79.60	\$74.70	\$69.00	\$64.85
*.0938	3/32	.0880	4	3/4	3	-	380006	\$58.60	.0891 - .0970	122.60	90.65	79.60	74.70	69.00	64.85
*.1094	7/64	.0943	4	7/8	3 1/2	-	380007	58.60	.0971 - .1120	122.60	90.65	79.60	74.70	69.00	64.85
.1250	1/8	.1099	4	7/8	3 1/2	380108	380008	58.60	.1121 - .1280	122.60	90.65	79.60	74.70	69.00	64.85
.1406	9/64	.1255	4	7/8	3 1/2	380109	380009	67.00	.1281 - .1435	131.00	98.90	88.05	83.00	77.55	73.20
.1562	5/32	.1411	4	1	4	380110	380010	68.85	.1436 - .1590	132.85	100.85	89.95	84.95	79.40	75.30
.1719	11/64	.1567	4	1	4	380111	380011	77.65	.1591 - .1750	141.50	109.70	98.90	93.75	88.30	84.00
.1875	3/16	.1724	4	1 1/8	4 1/2	380112	380012	79.30	.1751 - .1910	143.35	111.30	100.40	95.40	89.90	85.75

*Provided with male centers

**Quantities of 15 or more: price of fractional size in same size range.

TYPE 3803 - STRAIGHT SHANK - STRAIGHT FLUTES - FOR NON-FERROUS

TYPE 3802 - STRAIGHT SHANK - STRAIGHT FLUTES - FOR CAST IRON & STEEL

Short series solid carbide head and shank. Tool geometry appropriate for material being machined.

For stocked general purpose reamers in decimal sizes and .0005" increments (Type 3804), see pages 55-58.



Tool diameter tolerance thru .2500": +.0002"/-.0000".
over .2500": +.0003"/-.0000".

Shank diameter tolerance: +.0000"/-.0010".

For closer tool diameter tolerance pricing, see page 60.

DECIMAL SIZE RANGE	MAX. SHANK DIAMETER	NO. OF FLUTES	LENGTH		NON-FERR. TYPE 3803 EDP NO.	C.I./STEEL TYPE 3802 EDP NO.	PRICE EACH - FINISHED TO DECIMAL SIZE						
			FLUTE	OAL			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
*.0591 - .0660	.0580	4	3/8	1 1/2	-	380204	\$115.30	\$71.80	\$57.25	\$50.45	\$42.95	\$37.05	\$28.50
*.0661 - .0740	.0650	4	1/2	1 3/4	-	380245	115.75	72.10	57.60	50.65	43.25	37.35	28.90
*.0741 - .0810	.0730	4	1/2	1 3/4	-	380205	115.90	72.25	57.70	50.95	43.30	37.65	28.95
*.0811 - .0890	.0800	4	1/2	2	-	380255	116.50	73.10	58.50	51.65	44.25	38.35	29.80
*.0891 - .0970	.0880	4	1/2	2	-	380206	117.35	73.70	59.20	52.30	45.00	38.85	30.55
*.0971 - .1120	.0943	4	5/8	2 1/4	380307	380207	117.70	74.10	59.65	52.70	45.30	39.45	30.90
.1121 - .1280	.1099	4	5/8	2 1/4	380308	380208	119.85	76.20	61.70	54.80	47.25	41.45	32.95
.1281 - .1435	.1255	4	3/4	2 1/2	380309	380209	120.60	77.10	62.50	55.70	48.25	42.40	33.80
.1436 - .1590	.1411	4	3/4	2 1/2	380310	380210	122.70	79.10	64.55	57.70	50.35	44.30	35.85
.1591 - .1750	.1567	4	7/8	2 3/4	380311	380211	127.30	83.70	69.15	62.35	54.90	49.05	40.45
.1751 - .1910	.1724	4	7/8	2 3/4	380312	380212	130.40	86.80	72.25	65.45	57.85	52.15	43.55
.1911 - .2210	.1880	6	1	3	380314	380214	135.80	92.25	77.70	70.85	63.50	57.55	49.05
.2211 - .2530	.2193	6	1	3	380316	380216	145.00	101.55	86.95	80.15	72.65	66.75	58.30
.2531 - .2840	.2505	6	1 1/8	3 1/4	380318	380218	155.80	112.20	97.70	90.80	83.40	77.50	69.00
.2841 - .3150	.2817	6	1 1/8	3 1/4	380320	380220	167.70	124.15	109.40	102.75	95.25	89.35	80.90
.3151 - .3470	.3130	6	1 1/4	3 1/2	380322	380222	185.20	141.75	127.25	120.35	112.95	106.80	98.60
.3471 - .3780	.3443	6	1 1/4	3 1/2	380324	380224	187.50	144.10	129.65	122.70	115.20	109.25	100.75
.3781 - .4090	.3755	6	1 3/8	3 3/4	380326	380226	203.05	159.50	145.00	137.95	130.65	124.75	116.20
.4091 - .4410	.4067	6	1 3/8	3 3/4	380328	380228	204.80	161.25	146.75	139.85	132.45	126.50	117.95
.4411 - .4720	.4380	6	1 1/2	4	380330	380230	217.25	173.75	159.15	152.35	144.85	139.05	130.50
.4721 - .5150	.4693	6	1 1/2	4	380332	380232	229.35	185.80	171.15	164.45	157.00	151.10	142.60

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SOLID CARBIDE SPIRAL CHUCKING REAMERS

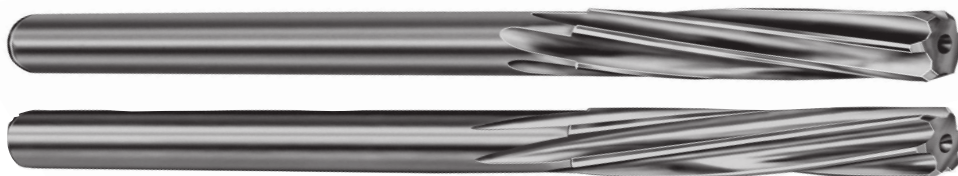
TYPE 3811 - LONG LENGTH - RIGHT SPIRAL FLUTES - FOR NON-FERROUS

TYPE 3810 - LONG LENGTH - RIGHT SPIRAL FLUTES - FOR CAST IRON & STEEL

TYPE 3821 - LONG LENGTH - LEFT SPIRAL FLUTES - FOR NON-FERROUS

TYPE 3820 - LONG LENGTH - LEFT SPIRAL FLUTES - FOR CAST IRON & STEEL

Extended length series. Ground with spiral flutes for reaming holes with interruptions such as keyways, slots or intersecting holes. Left spiral flutes should not be used on blind holes.



Tool diameter tolerance: +.0002"/-.0000".

Shank diameter tolerance: +.0000"/-.0010".

For closer tool diameter tolerance pricing, see page 60.

TOOL DIAMETER		MAX. SHANK DIAM.	NO. OF FLTS.	LENGTH		RIGHT SPIRAL		LEFT SPIRAL		ALL TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DEC.	FRAC.			FLT.	OAL	NON-FERR. TYPE 3811 EDP NO.	C.I./STEEL TYPE 3810 EDP NO.	NON-FERR. TYPE 3821 EDP NO.	C.I./STEEL TYPE 3820 EDP NO.			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.1250	1/8	.1099	4	7/8	3 1/2	381108	381008	382108	382008	\$59.80	.1121 - .1280	\$113.50	\$86.65	\$77.50	\$73.25	\$68.55	\$65.10
.1406	9/64	.1255	4	7/8	3 1/2	381109	381009	382109	382009	68.25	.1281 - .1435	121.95	95.05	86.05	81.80	77.25	73.65
.1562	5/32	.1411	4	1	4	381110	381010	382110	382010	70.55	.1436 - .1590	124.15	97.15	88.15	83.90	79.25	75.70
.1719	11/64	.1567	4	1	4	381111	381011	382111	382011	87.25	.1591 - .1750	146.45	116.80	106.80	102.20	97.15	93.30
.1875	3/16	.1724	4	1 1/8	4 1/2	381112	381012	382112	382012	89.15	.1751 - .1910	148.00	118.60	108.65	104.05	98.95	94.95

*Quantities of 15 or more: price of fractional size in same size range.

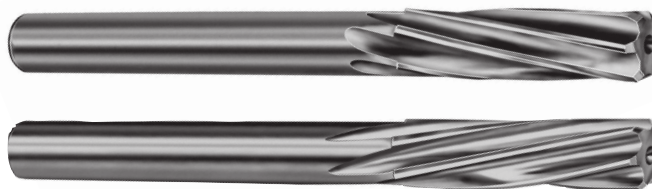
TYPE 3813 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - FOR NON-FERROUS

TYPE 3812 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - FOR CAST IRON & STEEL

TYPE 3823 - STRAIGHT SHANK - LEFT SPIRAL FLUTES - FOR NON-FERROUS

TYPE 3822 - STRAIGHT SHANK - LEFT SPIRAL FLUTES - FOR CAST IRON & STEEL

Short length solid carbide head and shank. Ground with spiral flutes for reaming holes with interruptions such as keyways, slots or intersecting holes. Left spiral flutes should not be used on blind holes.



Tool diameter tolerance thru .2500": +.0002"/-.0000".

over .2500": +.0003"/.0000".

Shank diameter tolerance: +.0000"/-.0010".

For closer tool diameter tolerance pricing, see page 60.

DECIMAL SIZE RANGE	MAX. SHANK DIAM.	NO. OF FLTS.	FLT. LEN.	OVER ALL LEN.	RIGHT SPIRAL		LEFT SPIRAL		PRICE EACH - FINISHED TO DECIMAL SIZE							
					NON-FERR. TYPE 3813 EDP NO.	C.I./STEEL TYPE 3812 EDP NO.	NON-FERR. TYPE 3823 EDP NO.	C.I./STEEL TYPE 3822 EDP NO.	1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+	
*.0971 - .1120	.0943	4	5/8	2 1/4	381307	381207	382307	382207	\$122.15	\$78.25	\$63.50	\$56.55	\$48.90	\$42.95	\$34.30	
.1121 - .1280	.1099	4	5/8	2 1/4	381308	381208	382308	382208	124.50	80.45	65.70	58.90	51.20	45.20	36.65	
.1281 - .1435	.1255	4	3/4	2 1/2	381309	381209	382309	382209	131.75	85.65	70.25	62.80	54.95	48.70	39.55	
.1436 - .1590	.1411	4	3/4	2 1/2	381310	381210	382310	382210	134.25	88.00	72.50	65.25	57.30	51.05	42.10	
.1591 - .1750	.1567	4	7/8	2 3/4	381311	381211	382311	382211	139.65	93.45	77.95	70.55	62.75	56.40	47.35	
.1751 - .1910	.1724	4	7/8	2 3/4	381312	381212	382312	382212	143.10	97.00	81.40	74.10	66.15	59.95	50.90	
.1911 - .2210	.1880	6	1	3	381314	381214	382314	382214	156.55	108.20	92.00	84.30	76.00	69.40	59.95	
.2211 - .2530	.2193	6	1	3	381316	381216	382316	382216	168.05	119.45	103.20	95.70	87.30	80.90	71.45	
.2531 - .2840	.2505	6	1 1/8	3 1/4	381318	381218	382318	382218	181.20	132.75	116.60	109.00	100.55	94.10	84.60	
.2841 - .3150	.2817	6	1 1/8	3 1/4	381320	381220	382320	382220	195.50	147.10	130.85	123.25	115.00	108.35	98.80	
.3151 - .3470	.3130	6	1 1/4	3 1/2	381322	381222	382322	382222	217.10	168.75	152.50	144.85	136.55	129.90	120.45	
.3471 - .3780	.3443	6	1 1/4	3 1/2	381324	381224	382324	382224	220.05	171.60	155.45	147.65	139.50	132.85	123.40	
.3781 - .4090	.3755	6	1 3/8	3 3/4	381326	381226	382326	382226	226.20	177.65	161.40	153.70	145.45	138.90	129.50	
.4091 - .4410	.4067	6	1 3/8	3 3/4	381328	381228	382328	382228	228.10	179.45	163.20	155.65	147.35	140.75	131.40	
.4411 - .4720	.4380	6	1 1/2	4	381330	381230	382330	382230	241.90	193.40	177.20	169.65	161.35	154.75	145.25	
.4721 - .5150	.4693	6	1 1/2	4	381332	381232	382332	382232	255.30	206.85	190.65	183.10	174.65	168.15	158.70	

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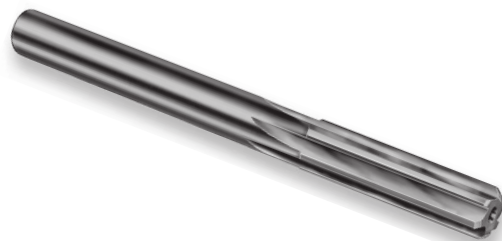
*Provided with male centers

Made in U.S.A.

SOLID CARBIDE COOLANT FED CHUCKING REAMERS

TYPE 3807 - STRAIGHT SHANK - STRAIGHT FLUTES - BLIND HOLES - FOR NON-FERROUS
TYPE 3806 - STRAIGHT SHANK - STRAIGHT FLUTES - BLIND HOLES - FOR CAST IRON & STEEL

Short length series solid carbide coolant fed chucking reamers.
 Center coolant feeding hole for flushing chips back towards shank.



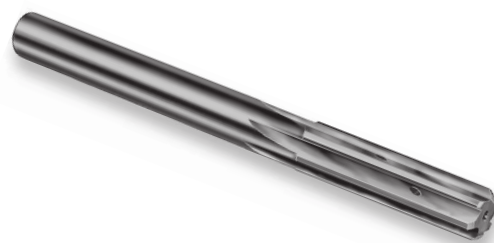
Tool diameter tolerance thru .2500": +.0002"/-.0000".
 over .2500": +.0003"/-.0000".
 Shank diameter tolerance: +.0000"/-.0010".
 For closer tool diameter tolerance pricing, see page 60.

CENTER FED COOLANT

DECIMAL SIZE RANGE	MAX. SHANK DIAM.	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3807 EDP NO.	C.I./STEEL TYPE 3806 EDP NO.	PRICE EACH - FINISHED TO DECIMAL SIZE						
			FLUTE	OAL			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
.1121 - .1280	.1099	4	5/8	2 1/4	380708	380608	\$218.85	\$189.60	\$179.80	\$175.15	\$169.95	\$166.10	\$160.25
.1281 - .1435	.1255	4	3/4	2 1/2	380709	380609	220.45	190.95	181.45	176.60	171.60	167.60	161.85
.1436 - .1590	.1411	4	3/4	2 1/2	380710	380610	221.30	192.00	182.25	177.60	172.45	168.50	162.85
.1591 - .1750	.1567	4	7/8	2 3/4	380711	380611	223.40	194.20	184.45	179.70	174.55	170.70	164.95
.1751 - .1910	.1724	4	7/8	2 3/4	380712	380612	232.45	203.00	193.40	188.55	183.65	179.65	173.95
.1911 - .2210	.1880	6	1	3	380714	380614	235.85	206.55	196.80	192.00	187.05	183.05	177.45
.2211 - .2530	.2193	6	1	3	380716	380616	240.10	210.75	201.00	196.25	191.05	187.35	181.50
.2531 - .2840	.2505	6	1 1/8	3 1/4	380718	380618	246.90	217.60	207.90	203.00	198.00	194.15	188.25
.2841 - .3150	.2817	6	1 1/8	3 1/4	380720	380620	252.60	223.25	213.50	208.80	203.75	199.90	194.15
.3151 - .3470	.3130	6	1 1/4	3 1/2	380722	380622	259.60	230.20	220.55	215.60	210.75	206.75	201.00
.3471 - .3780	.3443	6	1 1/4	3 1/2	380724	380624	267.45	238.05	228.40	223.70	218.65	214.65	208.95
.3781 - .4090	.3755	6	1 3/8	3 3/4	380726	380626	279.80	250.45	240.85	236.00	231.05	227.10	221.30

TYPE 3809 - STRAIGHT SHANK - STRAIGHT FLUTES - THROUGH HOLES - FOR NON-FERROUS
TYPE 3808 - STRAIGHT SHANK - STRAIGHT FLUTES - THROUGH HOLES - FOR CAST IRON & STEEL

Short length series solid carbide coolant fed chucking reamers.
 Coolant feeding hole in each flute for flushing chips forward through the hole being reamed.



Tool diameter tolerance thru .2500": +.0002"/-.0000".
 over .2500": +.0003"/-.0000".
 Shank diameter tolerance: +.0000"/-.0010".
 For closer tool diameter tolerance pricing, see page 60.

FLUTE FED COOLANT

DECIMAL SIZE RANGE	MAX. SHANK DIAM.	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3809 EDP NO.	C.I./STEEL TYPE 3808 EDP NO.	PRICE EACH - FINISHED TO DECIMAL SIZE						
			FLUTE	OAL			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
.1121 - .1280	.1099	4	5/8	2 1/4	380908	380808	\$309.65	\$280.40	\$270.65	\$265.95	\$260.75	\$256.95	\$251.20
.1281 - .1435	.1255	4	3/4	2 1/2	380909	380809	294.25	264.85	255.15	250.25	245.40	241.40	235.65
.1436 - .1590	.1411	4	3/4	2 1/2	380910	380810	312.75	283.35	273.75	268.90	263.90	259.90	254.15
.1591 - .1750	.1567	4	7/8	2 3/4	380911	380811	315.40	286.05	276.40	271.70	266.65	262.65	256.95
.1751 - .1910	.1724	4	7/8	2 3/4	380912	380812	317.35	288.10	278.30	273.60	268.45	264.60	258.85
.1911 - .2210	.1880	6	1	3	380914	380814	381.40	352.05	342.30	337.55	332.55	328.70	322.80
.2211 - .2530	.2193	6	1	3	380916	380816	386.15	356.70	347.15	342.25	337.25	333.25	327.50
.2531 - .2840	.2505	6	1 1/8	3 1/4	380918	380818	394.40	365.00	355.40	350.55	345.55	341.55	335.75
.2841 - .3150	.2817	6	1 1/8	3 1/4	380920	380820	400.90	371.75	361.90	357.15	352.05	348.00	342.30
.3151 - .3470	.3130	6	1 1/4	3 1/2	380922	380822	426.45	397.15	387.45	382.55	377.55	373.70	367.85
.3471 - .3780	.3443	6	1 1/4	3 1/2	380924	380824	435.55	406.10	396.50	391.60	386.70	382.60	376.95
.3781 - .4090	.3755	6	1 3/8	3 3/4	380926	380826	450.40	421.10	411.35	406.60	401.50	397.60	391.85

SOLID CARBIDE COOLANT FED CHUCKING REAMERS

TYPE 3817 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - BLIND HOLES - FOR NON-FERROUS
TYPE 3816 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - BLIND HOLES - FOR CAST IRON & STEEL

Short length series solid carbide coolant fed chucking reamers.
 Center coolant feeding hole for flushing chips back towards shank.



Tool diameter tolerance thru .2500": +.0002"/-.0000".
 over .2500": +.0003"/-.0000".

Shank diameter tolerance: +.0000"/-.0010".

For closer tool diameter tolerance pricing, see page 60.

CENTER FED COOLANT

DECIMAL SIZE RANGE	MAX. SHANK DIAM.	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3817 EDP NO.	C.I./STEEL TYPE 3816 EDP NO.	PRICE EACH - FINISHED TO DECIMAL SIZE						
			FLUTE	OAL			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
.1121 - .1280	.1099	4	5/8	2 1/4	381708	381608	\$224.45	\$194.95	\$185.35	\$180.55	\$175.45	\$171.60	\$165.70
.1281 - .1435	.1255	4	3/4	2 1/2	381709	381609	225.90	196.65	186.80	182.10	176.90	173.20	167.45
.1436 - .1590	.1411	4	3/4	2 1/2	381710	381610	226.90	197.45	187.95	183.05	177.95	174.10	168.30
.1591 - .1750	.1567	4	7/8	2 3/4	381711	381611	229.05	199.75	190.05	185.20	180.15	176.20	170.40
.1751 - .1910	.1724	4	7/8	2 3/4	381712	381612	237.90	208.60	198.85	194.15	189.00	185.05	179.45
.1911 - .2210	.1880	6	1	3	381714	381614	241.30	212.00	202.25	197.30	192.40	188.45	182.65
.2211 - .2530	.2193	6	1	3	381716	381616	245.45	216.15	206.45	201.45	196.65	192.65	186.80
.2531 - .2840	.2505	6	1 1/8	3 1/4	381718	381618	252.20	223.00	213.25	208.50	203.35	199.35	193.70
.2841 - .3150	.2817	6	1 1/8	3 1/4	381720	381620	257.95	228.70	218.95	214.25	209.10	205.10	199.35
.3151 - .3470	.3130	6	1 1/4	3 1/2	381722	381622	265.05	235.80	225.95	221.20	216.30	212.30	206.55
.3471 - .3780	.3443	6	1 1/4	3 1/2	381724	381624	274.60	245.10	235.40	230.75	225.60	221.65	216.05
.3781 - .4090	.3755	6	1 3/8	3 3/4	381726	381626	287.05	257.80	248.05	243.30	238.15	234.30	228.60

TYPE 3829 - STRAIGHT SHANK - LEFT SPIRAL FLUTES - THROUGH HOLES - FOR NON-FERROUS
TYPE 3828 - STRAIGHT SHANK - LEFT SPIRAL FLUTES - THROUGH HOLES - FOR CAST IRON & STEEL

Short length series solid carbide coolant fed chucking reamers.
 Coolant feeding hole in each flute for flushing chips forward through the hole being reamed.



Tool diameter tolerance thru .2500": +.0002"/-.0000".
 over .2500": +.0003"/-.0000".

Shank diameter tolerance: +.0000"/-.0010".

For closer tool diameter tolerance pricing, see page 60.

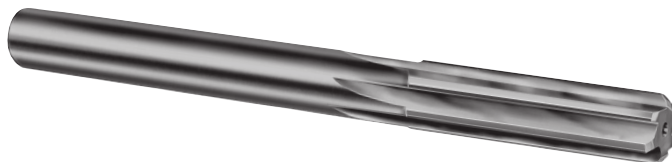
FLUTE FED COOLANT

DECIMAL SIZE RANGE	MAX. SHANK DIAM.	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3829 EDP NO.	C.I./STEEL TYPE 3828 EDP NO.	PRICE EACH - FINISHED TO DECIMAL SIZE						
			FLUTE	OAL			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
.1121 - .1280	.1099	4	5/8	2 1/4	382908	382808	\$354.25	\$324.95	\$315.25	\$310.50	\$305.35	\$301.40	\$295.65
.1281 - .1435	.1255	4	3/4	2 1/2	382909	382809	356.25	326.80	317.15	312.55	307.30	303.30	297.65
.1436 - .1590	.1411	4	3/4	2 1/2	382910	382810	357.30	327.90	318.30	313.35	308.45	304.45	298.70
.1591 - .1750	.1567	4	7/8	2 3/4	382911	382811	359.80	330.35	320.70	316.00	310.85	307.00	301.25
.1751 - .1910	.1724	4	7/8	2 3/4	382912	382812	361.45	332.10	322.50	317.50	312.70	308.60	302.95
.1911 - .2210	.1880	6	1	3	382914	382814	467.35	438.10	428.35	423.50	418.35	414.65	408.90
.2211 - .2530	.2193	6	1	3	382916	382816	467.00	437.70	427.95	423.30	418.15	414.15	408.55
.2531 - .2840	.2505	6	1 1/8	3 1/4	382918	382818	475.15	445.90	436.05	431.35	426.25	422.40	416.70
.2841 - .3150	.2817	6	1 1/8	3 1/4	382920	382820	481.80	452.55	442.80	438.10	433.10	429.05	423.35
.3151 - .3470	.3130	6	1 1/4	3 1/2	382922	382822	507.20	478.00	468.20	463.45	458.35	454.50	448.60
.3471 - .3780	.3443	6	1 1/4	3 1/2	382924	382824	516.40	487.15	477.40	472.60	467.60	463.65	458.00
.3781 - .4090	.3755	6	1 3/8	3 3/4	382926	382826	531.60	502.15	492.55	487.70	482.70	478.70	473.05

SOLID CARBIDE CHUCKING REAMERS

TYPE 3804 - STRAIGHT SHANK STRAIGHT FLUTES - SHORT SERIES

For dimensional details for .0591" and above, see Types 3802/3803 on page 50.
For additional solid carbide reamer sizes (including wire #52-70), see page 55-58.
For reamer tolerances, see page 50. For closer tolerance pricing, see page 60.



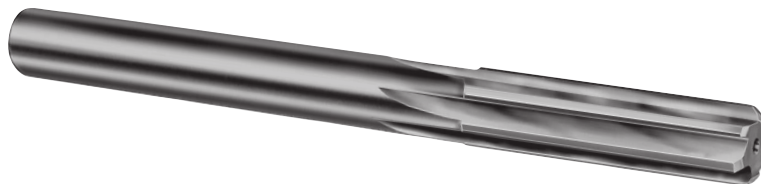
TOOL DIAMETER						TOOL DIAMETER						TOOL DIAMETER					
DECIMAL	FRACTION	WIRE LETTER	mm	EDP NO.	PRICE EACH	DECIMAL	FRACTION	WIRE LETTER	mm	EDP NO.	PRICE EACH	DECIMAL	FRACTION	WIRE LETTER	mm	EDP NO.	PRICE EACH
.0312	*1/32			380402	\$35.55	.1457			3.7	3804037	\$46.25	.2480			6.3	3804063	\$79.30
.0394			*1.0	3804010	34.00	.1470		26		38041470	47.00	.2500	1/4	E		380416	72.10
.0433			*1.1	3804011	37.40	.1495		25		38041495	47.25	.2520			6.4	3804064	87.40
.0469	*3/64			380403	37.65	.1496		3.8		3804038	49.65	.2559			6.5	3804065	87.30
.0472			*1.2	3804012	37.65	.1520		24		38041520	47.25	.2570		F		38042570	87.30
.0512			*1.3	3804013	37.65	.1535		3.9		3804039	49.30	.2598			6.6	3804066	91.65
.0551			*1.4	3804014	37.65	.1540		23		38041540	49.30	.2610		G		38042610	87.30
.0591			1.5	3804015	33.40	.1562	5/32			380410	46.55	.2638			6.7	3804067	91.65
.0625	1/16			380404	34.40	.1570		22		38041570	50.95	.2656	17/64			380417	87.30
.0630			1.6	3804016	37.35	.1575		4.0		3804040	46.55	.2660		H		38042660	87.30
.0669			1.7	3804017	37.80	.1590		21		38041590	52.25	.2677			6.8	3804068	91.65
.0670		51		38040670	37.80	.1610		20		38041610	52.90	.2717			6.9	3804069	91.65
.0700		50		38040700	37.80	.1614		4.1		3804041	52.90	.2720		I		38042720	87.30
.0709			1.8	3804018	37.80	.1654		4.2		3804042	53.20	.2756			7.0	3804070	79.70
.0730		49		38040730	37.80	.1660		19		38041660	53.20	.2770		J		38042770	87.30
.0748			1.9	3804019	37.80	.1693		4.3		3804043	53.75	.2795			7.1	3804071	99.40
.0760		48		38040760	37.80	.1695		18		38041695	53.75	.2810		K		38042810	94.65
.0781	3/64			380405	37.80	.1719	11/64			380411	54.80	.2812	9/32			380418	86.55
.0785		47		38040785	37.90	.1730		17		38041730	54.80	.2835			7.2	3804072	107.45
.0787			2.0	3804020	34.85	.1732		4.4		3804044	54.80	.2874			7.3	3804073	107.45
.0810		46		38040810	37.90	.1770		16		38041770	56.15	.2900		L		38042900	102.50
.0820		45		38040820	38.10	.1772		4.5		3804045	50.95	.2913			7.4	3804074	107.45
.0827			2.1	3804021	38.10	.1800		15		38041800	56.40	.2950		M		38042950	102.50
.0860		44		38040860	38.10	.1811		4.6		3804046	57.15	.2953			7.5	3804075	102.50
.0866			2.2	3804022	38.10	.1820		14		38041820	57.25	.2969	19/64			380419	102.50
.0890		43		38040890	38.70	.1850		13	4.7	3804047	57.60	.2992			7.6	3804076	112.10
.0906			2.3	3804023	38.70	.1875	3/16			380412	55.25	.3020		N		38043020	106.75
.0935		42		38040935	38.85	.1890		12	4.8	3804048	60.70	.3031			7.7	3804077	112.10
.0938	3/32			380406	35.85	.1910		11		38041910	61.45	.3071			7.8	3804078	112.10
.0945			2.4	3804024	38.85	.1929		4.9		3804049	61.45	.3110			7.9	3804079	112.10
.0960		41		38040960	39.70	.1935		10		38041935	61.85	.3125	5/16			380420	97.60
.0980		40		38040980	39.70	.1960		9		38041960	64.05	.3150			8.0	3804080	97.60
.0984			2.5	3804025	36.20	.1969		5.0		3804050	58.45	.3160		O		38043160	112.10
.0995		39		38040995	40.00	.1990		8		38041990	64.35	.3189			8.1	3804081	119.30
.1015		38		38041015	40.00	.2008		5.1		3804051	66.45	.3228			8.2	3804082	119.30
.1024			2.6	3804026	40.15	.2010		7		38042010	66.45	.3230		P		38043230	113.50
.1040		37		38041040	42.50	.2031	13/64			380413	66.45	.3268	21/64		8.3	3804083	136.45
.1063			2.7	3804027	40.35	.2040		6		38042040	66.45	.3281			8.4	380421	129.90
.1065		36		38041065	40.35	.2047		5.2		3804052	66.45	.3307				3804084	136.45
.1094	7/64			380407	41.60	.2055		5		38042055	66.45	.3320		Q		38043320	129.90
.1100		35		38041100	41.60	.2087		5.3		3804053	66.45	.3346			8.5	3804085	129.90
.1102			2.8	3804028	41.60	.2090		4		38042090	69.80	.3386			8.6	3804086	136.45
.1110		34		38041110	42.35	.2126		5.4		3804054	66.45	.3390		R		38043390	129.90
.1130		33		38041130	42.85	.2130		3		38042130	66.45	.3425			8.7	3804087	136.45
.1142			2.9	3804029	42.85	.2165		5.5		3804055	60.70	.3438	11/32			380422	129.90
.1160		32		38041160	42.85	.2188	7/32			380414	60.55	.3465			8.8	3804088	137.05
.1181			3.0	3804030	39.70	.2205		5.6		3804056	74.00	.3480		S		38043480	130.50
.1200		31		38041200	43.00	.2210		2		38042210	74.00	.3504			8.9	3804089	137.05
.1220			3.1	3804031	43.00	.2244		5.7		3804057	76.90	.3543			9.0	3804090	120.00
.1250	1/8			380408	39.70	.2280		1		38042280	77.80	.3580		T		38043580	131.00
.1260			3.2	3804032	43.00	.2283		5.8		3804058	77.80	.3583			9.1	3804091	138.35
.1285		30		38041285	43.10	.2323		5.9		3804059	77.80	.3594	23/64			380423	131.70
.1299			3.3	3804033	43.10	.2340		A		38042340	77.80	.3622			9.2	3804092	140.00
.1339			3.4	3804034	43.10	.2344	15/64			380415	77.80	.3661			9.3	3804093	140.00
.1360		29		38041360	43.10	.2362		6.0		3804060	72.10	.3680		U		38043680	133.35
.1378			3.5	3804035	40.15	.2380		B		38042380	79.30	.3701			9.4	3804094	140.70
.1405		28		38041405	43.70	.2402		6.1		3804061	79.30	.3740			9.5	3804095	134.10
.1406	9/64			380409	45.15	.2420		C		38042420	79.30	.3750	3/8			380424	122.75
.1417			3.6	3804036	45.65	.2441		6.2		3804062	79.30	.3770		V		38043770	159.30
.1440		27		38041440	45.65	.2460		D		38042460	79.30	.3780			9.6	3804096	167.45

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SOLID CARBIDE DECIMAL SIZE CHUCKING REAMERS

**TYPE 3804 - SOLID CARBIDE - STRAIGHT FLUTES - SHORT LENGTH
STANDARD DECIMAL DIAMETER REAMERS (.0005" INCREMENTS)
THIS PAGE .0280" THRU .1475"**

Short length solid carbide head and shank. Tool geometry appropriate for material being machined. For fractional, wire and letter sizes, see page 50.



Tool diameter tolerance thru .2500": +.0002"/-.0000".
over .2500": +.0003"/-.0000".

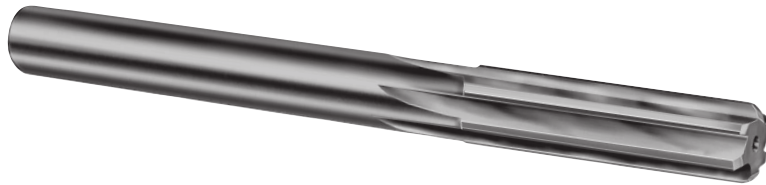
Shank diameter tolerance: +.0000"/-.0010".

DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH
.0280	38040280	\$38.55	.0520	38040520	\$37.65	.0760	38040760	\$37.80	.1000	38041000	\$41.95	.1240	38041240	\$45.30
.0285	38040285	40.75	.0525	38040525	39.70	.0765	38040765	39.70	.1005	38041005	41.95	.1245	38041245	45.30
.0290	38040290	40.75	.0530	38040530	39.70	.0770	38040770	39.70	.1010	38041010	41.95	.1250	380408	39.70
.0295	38040295	38.55	.0535	38040535	39.70	.0775	38040775	39.70	.1015	38041015	40.00	.1255	38041255	45.30
.0300	38040300	40.75	.0540	38040540	39.70	.0780	38040780	39.70	.1020	38041020	42.35	.1260	3804032	43.00
.0305	38040305	40.75	.0545	38040545	39.70	.0785	38040785	37.90	.1025	38041025	42.50	.1265	38041265	45.45
.0310	38040310	38.55	.0550	38040550	37.65	.0790	38040790	39.85	.1030	38041030	42.50	.1270	38041270	45.45
.0315	3804008	38.55	.0555	38040555	39.70	.0795	38040795	39.85	.1035	38041035	42.50	.1275	38041275	45.45
.0320	38040320	38.55	.0560	38040560	39.70	.0800	38040800	39.85	.1040	38041040	42.50	.1280	38041280	43.10
.0325	38040325	40.75	.0565	38040565	39.70	.0805	38040805	39.85	.1045	38041045	42.50	.1285	38041285	43.10
.0330	38040330	38.55	.0570	38040570	39.70	.0810	38040810	37.90	.1050	38041050	42.50	.1290	38041290	45.45
.0335	38040335	38.55	.0575	38040575	39.70	.0815	38040815	40.00	.1055	38041055	42.50	.1295	38041295	45.45
.0340	38040340	39.30	.0580	38040580	39.70	.0820	38040820	38.10	.1060	38041060	42.50	.1300	38041300	45.45
.0345	38040345	39.30	.0585	38040585	39.70	.0825	38040825	40.00	.1065	38041065	40.35	.1305	38041305	45.45
.0350	38040350	37.40	.0590	38040590	34.55	.0830	38040830	40.00	.1070	38041070	43.10	.1310	38041310	45.45
.0355	38040355	39.30	.0595	38040595	36.45	.0835	38040835	40.00	.1075	38041075	43.10	.1315	38041315	45.45
.0360	38040360	37.40	.0600	38040600	39.45	.0840	38040840	40.00	.1080	38041080	43.10	.1320	38041320	45.45
.0365	38040365	39.30	.0605	38040605	39.45	.0845	38040845	40.00	.1085	38041085	43.70	.1325	38041325	45.45
.0370	38040370	37.40	.0610	38040610	37.35	.0850	38040850	40.00	.1090	38041090	43.70	.1330	38041330	45.45
.0375	38040375	39.30	.0615	38040615	39.45	.0855	38040855	40.00	.1095	38041095	43.70	.1335	38041335	45.45
.0380	38040380	37.40	.0620	38040620	39.45	.0860	38040860	38.10	.1100	38041100	41.60	.1340	38041340	45.45
.0385	38040385	39.30	.0625	380404	34.40	.0865	38040865	40.00	.1105	38041105	44.30	.1345	38041345	45.45
.0390	38040390	37.40	.0630	3804016	37.35	.0870	38040870	40.00	.1110	38041110	42.35	.1350	38041350	45.45
.0395	38040395	39.30	.0635	38040635	37.35	.0875	38040875	40.00	.1115	38041115	45.15	.1355	38041355	45.45
.0400	38040400	37.40	.0640	38040640	39.45	.0880	38040880	40.00	.1120	38041120	45.15	.1360	38041360	43.10
.0405	38040405	39.30	.0645	38040645	39.45	.0885	38040885	40.00	.1125	38041125	45.15	.1365	38041365	45.45
.0410	38040410	37.40	.0650	38040650	39.70	.0890	38040890	38.70	.1130	38041130	42.85	.1370	38041370	45.45
.0415	38040415	39.30	.0655	38040655	39.70	.0895	38040895	41.00	.1135	38041135	45.15	.1375	38041375	45.45
.0420	38040420	37.40	.0660	38040660	39.70	.0900	38040900	41.00	.1140	38041140	45.15	.1380	38041380	46.25
.0425	38040425	39.30	.0665	38040665	39.70	.0905	38040905	41.00	.1145	38041145	45.15	.1385	38041385	46.25
.0430	38040430	37.40	.0670	38040670	37.80	.0910	38040910	41.15	.1150	38041150	45.15	.1390	38041390	46.25
.0435	38040435	39.70	.0675	38040675	39.70	.0915	38040915	41.15	.1155	38041155	45.15	.1395	38041395	46.25
.0440	38040440	39.70	.0680	38040680	39.70	.0920	38040920	41.15	.1160	38041160	42.85	.1400	38041400	46.25
.0445	38040445	39.70	.0685	38040685	39.70	.0925	38040925	38.85	.1165	38041165	45.15	.1405	38041405	43.70
.0450	38040450	39.70	.0690	38040690	39.70	.0930	38040930	41.15	.1170	38041170	45.15	.1410	38041410	48.00
.0455	38040455	39.70	.0695	38040695	39.70	.0935	38040935	38.85	.1175	38041175	45.15	.1415	38041415	48.00
.0460	38040460	39.70	.0700	38040700	37.80	.0940	38040940	41.15	.1180	38041180	45.15	.1420	38041420	48.00
.0465	38040465	37.65	.0705	38040705	39.70	.0945	3804024	38.85	.1185	38041185	45.30	.1425	38041425	48.00
.0470	38040470	39.70	.0710	38040710	39.70	.0950	38040950	41.60	.1190	38041190	45.30	.1430	38041430	48.00
.0475	38040475	39.70	.0715	38040715	39.70	.0955	38040955	41.60	.1195	38041195	45.30	.1435	38041435	48.00
.0480	38040480	39.70	.0720	38040720	39.70	.0960	38040960	39.70	.1200	38041200	43.00	.1440	38041440	45.65
.0485	38040485	39.70	.0725	38040725	39.70	.0965	38040965	39.70	.1205	38041205	45.30	.1445	38041445	48.25
.0490	38040490	39.70	.0730	38040730	37.80	.0970	38040970	41.60	.1210	38041210	45.30	.1450	38041450	48.30
.0495	38040495	39.70	.0735	38040735	39.70	.0975	38040975	41.60	.1215	38041215	45.30	.1455	38041455	48.30
.0500	38040500	39.70	.0740	38040740	39.70	.0980	38040980	39.70	.1220	3804031	43.00	.1460	38041460	49.60
.0505	38040505	39.70	.0745	38040745	39.70	.0985	38040985	41.95	.1225	38041225	45.30	.1465	38041465	49.60
.0510	38040510	39.70	.0750	38040750	39.70	.0990	38040990	41.95	.1230	38041230	45.30	.1470	38041470	47.00
.0515	38040515	39.70	.0755	38040755	39.70	.0995	38040995	40.00	.1235	38041235	45.30	.1475	38041475	49.60

SOLID CARBIDE DECIMAL SIZE CHUCKING REAMERS

**TYPE 3804 - SOLID CARBIDE - STRAIGHT FLUTES - SHORT LENGTH
STANDARD DECIMAL DIAMETER REAMERS (.0005" INCREMENTS)
THIS PAGE .1480" THRU .2675"**

Short length solid carbide head and shank. Tool geometry appropriate for material being machined.
For fractional, wire and letter sizes, see page 54.



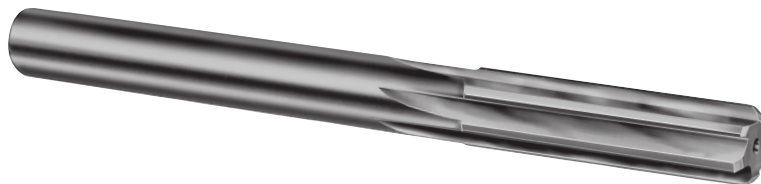
Tool diameter tolerance thru .2500": $\pm .0002$ " / $-.0000$ ".
over .2500": $\pm .0003$ " / $-.0000$ ".
Shank diameter tolerance: $\pm .0000$ " / $-.0010$ ".

DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH
.1480	38041480	\$49.65	.1720	38041720	\$57.60	.1960	38041960	\$64.05	.2200	38042200	\$78.00	.2440	38042440	\$83.30
.1485	38041485	49.65	.1725	38041725	57.60	.1965	38041965	67.05	.2205	3804056	74.00	.2445	38042445	83.30
.1490	38041490	49.65	.1730	38041730	54.80	.1970	38041970	67.80	.2210	38042210	74.00	.2450	38042450	83.30
.1495	38041495	47.25	.1735	38041735	58.45	.1975	38041975	67.80	.2215	38042215	81.10	.2455	38042455	83.30
.1500	38041500	49.65	.1740	38041740	58.45	.1980	38041980	67.80	.2220	38042220	81.10	.2460	38042460	79.30
.1505	38041505	49.65	.1745	38041745	58.45	.1985	38041985	67.80	.2225	38042225	81.10	.2465	38042465	83.30
.1510	38041510	49.65	.1750	38041750	58.45	.1990	38041990	64.35	.2230	38042230	81.10	.2470	38042470	83.30
.1515	38041515	49.65	.1755	38041755	59.05	.1995	38041995	69.80	.2235	38042235	81.10	.2475	38042475	83.30
.1520	38041520	47.25	.1760	38041760	59.05	.2000	38042000	69.80	.2240	38042240	81.10	.2480	3804063	79.30
.1525	38041525	51.85	.1765	38041765	59.05	.2005	38042005	69.80	.2245	38042245	81.10	.2485	38042485	83.30
.1530	38041530	51.85	.1770	38041770	56.15	.2010	38042010	66.45	.2250	38042250	81.10	.2490	38042490	83.30
.1535	3804039	49.30	.1775	38041775	59.20	.2015	38042015	69.80	.2255	38042255	81.10	.2495	38042495	83.30
.1540	38041540	49.30	.1780	38041780	59.20	.2020	38042020	69.80	.2260	38042260	81.10	.2500	380416	72.10
.1545	38041545	51.85	.1785	38041785	59.20	.2025	38042025	69.80	.2265	38042265	81.95	.2505	38042505	83.30
.1550	38041550	51.85	.1790	38041790	59.20	.2030	38042030	69.80	.2270	38042270	81.95	.2510	38042510	83.30
.1555	38041555	49.30	.1795	38041795	59.20	.2035	38042035	69.80	.2275	38042275	81.95	.2515	38042515	83.30
.1560	38041560	51.85	.1800	38041800	56.40	.2040	38042040	66.45	.2280	38042280	77.80	.2520	3804064	87.40
.1565	38041565	53.70	.1805	38041805	59.65	.2045	38042045	69.80	.2285	38042285	81.95	.2525	38042525	87.40
.1570	38041570	50.95	.1810	38041810	59.70	.2050	38042050	69.80	.2290	38042290	81.95	.2530	38042530	83.30
.1575	3804040	46.55	.1815	38041815	60.05	.2055	38042055	66.45	.2295	38042295	81.95	.2535	38042535	92.00
.1580	38041580	54.80	.1820	38041820	57.25	.2060	38042060	69.80	.2300	38042300	81.95	.2540	38042540	92.00
.1585	38041585	54.80	.1825	38041825	60.40	.2065	38042065	69.80	.2305	38042305	81.95	.2545	38042545	92.00
.1590	38041590	52.25	.1830	38041830	60.40	.2070	38042070	69.80	.2310	38042310	81.95	.2550	38042550	92.00
.1595	38041595	55.70	.1835	38041835	60.55	.2075	38042075	69.80	.2315	38042315	81.95	.2555	38042555	92.00
.1600	38041600	55.70	.1840	38041840	60.55	.2080	38042080	69.80	.2320	38042320	81.95	.2560	38042560	92.00
.1605	38041605	55.70	.1845	38041845	60.55	.2085	38042085	69.80	.2325	38042325	81.95	.2565	38042565	92.00
.1610	38041610	52.90	.1850	3804047	57.60	.2090	38042090	69.80	.2330	38042330	81.95	.2570	38042570	87.30
.1615	38041615	55.70	.1855	38041855	63.75	.2095	38042095	69.80	.2335	38042335	81.95	.2575	38042575	92.00
.1620	38041620	55.70	.1860	38041860	63.75	.2100	38042100	69.80	.2340	38042340	77.80	.2580	38042580	92.00
.1625	38041625	55.70	.1865	38041865	63.75	.2105	38042105	69.80	.2345	38042345	81.95	.2585	38042585	92.00
.1630	38041630	55.70	.1870	38041870	60.70	.2110	38042110	69.80	.2350	38042350	81.95	.2590	38042590	92.00
.1635	38041635	55.85	.1875	380412	55.25	.2115	38042115	69.80	.2355	38042355	81.95	.2595	38042595	92.00
.1640	38041640	55.70	.1880	38041880	63.90	.2120	38042120	69.80	.2360	38042360	81.95	.2600	38042600	92.00
.1645	38041645	55.70	.1885	38041885	63.90	.2125	38042125	69.80	.2365	38042365	83.30	.2605	38042605	92.00
.1650	38041650	55.70	.1890	3804048	60.70	.2130	38042130	66.45	.2370	38042370	83.30	.2610	38042610	87.30
.1655	38041655	55.70	.1895	38041895	64.55	.2135	38042135	69.80	.2375	38042375	83.30	.2615	38042615	92.00
.1660	38041660	53.20	.1900	38041900	64.55	.2140	38042140	69.80	.2380	38042380	79.30	.2620	38042620	92.00
.1665	38041665	56.40	.1905	38041905	64.55	.2145	38042145	69.80	.2385	38042385	83.30	.2625	38042625	92.00
.1670	38041670	56.40	.1910	38041910	61.45	.2150	38042150	69.80	.2390	38042390	83.30	.2630	38042630	92.00
.1675	38041675	56.40	.1915	38041915	64.70	.2155	38042155	69.80	.2395	38042395	83.30	.2635	38042635	92.00
.1680	38041680	56.40	.1920	38041920	64.70	.2160	38042160	69.80	.2400	38042400	83.30	.2640	38042640	92.00
.1685	38041685	56.40	.1925	38041925	64.70	.2165	3804055	60.70	.2405	38042405	83.30	.2645	38042645	92.00
.1690	38041690	56.40	.1930	38041930	65.40	.2170	38042170	69.80	.2410	38042410	83.30	.2650	38042650	92.00
.1695	38041695	53.75	.1935	38041935	61.85	.2175	38042175	69.80	.2415	38042415	83.30	.2655	38042655	92.00
.1700	38041700	57.60	.1940	38041940	65.40	.2180	38042180	69.80	.2420	38042420	79.30	.2660	38042660	87.30
.1705	38041705	57.60	.1945	38041945	65.40	.2185	38042185	66.45	.2425	38042425	83.30	.2665	38042665	92.00
.1710	38041710	57.60	.1950	38041950	67.05	.2190	38042190	78.00	.2430	38042430	83.30	.2670	38042670	92.00
.1715	38041715	57.60	.1955	38041955	67.05	.2195	38042195	78.00	.2435	38042435	83.30	.2675	38042675	92.00

SOLID CARBIDE DECIMAL SIZE CHUCKING REAMERS

**TYPE 3804 - SOLID CARBIDE - STRAIGHT FLUTES - SHORT LENGTH
STANDARD DECIMAL DIAMETER REAMERS (.0005" INCREMENTS)
THIS PAGE .2680" THRU .3875"**

Short length solid carbide head and shank. Tool geometry appropriate for material being machined. For fractional, wire and letter sizes, see page 54.



Tool diameter tolerance thru .2500": +.0002"/-.0000".
over .2500": +.0003"/-.0000".

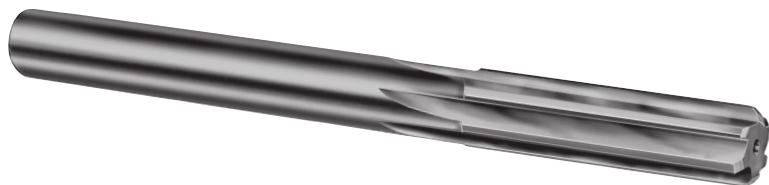
Shank diameter tolerance: +.0000"/-.0010".

DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH
.2680	38042680	\$92.00	.2920	38042920	\$107.80	.3160	38043160	\$112.10	.3400	38043400	\$136.75	.3640	38043640	\$140.25
.2685	38042685	92.00	.2925	38042925	107.80	.3165	38043165	119.35	.3405	38043405	136.75	.3645	38043645	140.25
.2690	38042690	92.00	.2930	38042930	107.80	.3170	38043170	119.35	.3410	38043410	136.75	.3650	38043650	140.25
.2695	38042695	92.00	.2935	38042935	107.80	.3175	38043175	119.35	.3415	38043415	136.75	.3655	38043655	140.25
.2700	38042700	92.00	.2940	38042940	107.80	.3180	38043180	119.35	.3420	38043420	136.75	.3660	38043660	140.25
.2705	38042705	92.00	.2945	38042945	107.80	.3185	38043185	119.35	.3425	3804087	136.45	.3665	38043665	140.25
.2710	38042710	92.00	.2950	38042950	102.50	.3190	38043190	119.35	.3430	38043430	136.75	.3670	38043670	140.25
.2715	38042715	92.00	.2955	38042955	107.80	.3195	38043195	119.35	.3435	38043435	136.75	.3675	38043675	140.25
.2720	38042720	87.30	.2960	38042960	107.80	.3200	38043200	119.35	.3440	38043440	137.05	.3680	38043680	133.35
.2725	38042725	92.00	.2965	38042965	107.80	.3205	38043205	119.35	.3445	38043445	137.05	.3685	38043685	141.60
.2730	38042730	92.00	.2970	38042970	112.10	.3210	38043210	119.35	.3450	38043450	137.05	.3690	38043690	141.90
.2735	38042735	92.00	.2975	38042975	112.10	.3215	38043215	119.35	.3455	38043455	137.05	.3695	38043695	141.60
.2740	38042740	92.00	.2980	38042980	112.10	.3220	38043220	119.35	.3460	38043460	137.05	.3700	38043700	141.60
.2745	38042745	92.00	.2985	38042985	112.10	.3225	38043225	119.35	.3465	3804088	137.05	.3705	38043705	141.60
.2750	38042750	92.00	.2990	38042990	112.10	.3230	38043230	113.50	.3470	38043470	137.05	.3710	38043710	141.60
.2755	38042755	92.00	.2995	38042995	112.10	.3235	38043235	119.35	.3475	38043475	137.05	.3715	38043715	141.60
.2760	38042760	92.00	.3000	38043000	112.10	.3240	38043240	136.75	.3480	38043480	130.50	.3720	38043720	141.60
.2765	38042765	92.00	.3005	38043005	112.10	.3245	38043245	136.75	.3485	38043485	137.05	.3725	38043725	141.60
.2770	38042770	87.30	.3010	38043010	112.10	.3250	38043250	136.75	.3490	38043490	137.05	.3730	38043730	141.60
.2775	38042775	92.00	.3015	38043015	112.10	.3255	38043255	136.75	.3495	38043495	137.05	.3735	38043735	141.60
.2780	38042780	99.55	.3020	38043020	106.75	.3260	38043260	136.75	.3500	38043500	137.05	.3740	3804095	134.10
.2785	38042785	99.55	.3025	38043025	112.10	.3265	38043265	136.75	.3505	38043505	137.05	.3745	38043745	141.60
.2790	38042790	99.55	.3030	38043030	112.10	.3270	38043270	136.75	.3510	38043510	137.05	.3750	380424	122.75
.2795	3804071	99.40	.3035	38043035	112.10	.3275	38043275	136.75	.3515	38043515	137.05	.3755	38043755	167.85
.2800	38042800	99.55	.3040	38043040	112.10	.3280	38043280	136.75	.3520	38043520	137.05	.3760	38043760	168.00
.2805	38042805	99.55	.3045	38043045	112.10	.3285	38043285	136.75	.3525	38043525	137.05	.3765	38043765	167.85
.2810	38042810	94.65	.3050	38043050	112.10	.3290	38043290	136.75	.3530	38043530	137.05	.3770	38043770	159.30
.2815	38042815	99.55	.3055	38043055	112.10	.3295	38043295	136.75	.3535	38043535	137.05	.3775	38043775	167.85
.2820	38042820	107.80	.3060	38043060	112.10	.3300	38043300	136.75	.3540	38043540	137.05	.3780	3804096	167.45
.2825	38042825	107.80	.3065	38043065	112.10	.3305	38043305	136.75	.3545	38043545	137.05	.3785	38043785	167.85
.2830	38042830	107.80	.3070	38043070	112.10	.3310	38043310	132.00	.3550	38043550	137.65	.3790	38043790	167.85
.2835	3804072	107.45	.3075	38043075	112.10	.3315	38043315	136.75	.3555	38043555	137.65	.3795	38043795	167.85
.2840	38042840	107.80	.3080	38043080	112.10	.3320	38043320	129.90	.3560	38043560	137.65	.3800	38043800	167.85
.2845	38042845	107.80	.3085	38043085	112.10	.3325	38043325	136.75	.3565	38043565	137.65	.3805	38043805	167.85
.2850	38042850	107.80	.3090	38043090	112.10	.3330	38043330	136.75	.3570	38043570	137.65	.3810	38043810	167.85
.2855	38042855	107.80	.3095	38043095	112.10	.3335	38043335	136.75	.3575	38043575	137.65	.3815	38043815	167.85
.2860	38042860	107.80	.3100	38043100	112.10	.3340	38043340	136.75	.3580	38043580	131.00	.3820	38043820	167.85
.2865	38042865	107.80	.3105	38043105	112.10	.3345	38043345	136.75	.3585	38043585	137.65	.3825	38043825	167.85
.2870	38042870	107.80	.3110	3804079	112.10	.3350	38043350	136.75	.3590	38043590	138.75	.3830	38043830	167.85
.2875	38042875	107.80	.3115	38043115	112.10	.3355	38043355	136.75	.3595	38043595	140.25	.3835	38043835	167.85
.2880	38042880	107.80	.3120	38043120	112.10	.3360	38043360	136.75	.3600	38043600	140.25	.3840	38043840	167.85
.2885	38042885	107.80	.3125	380420	97.60	.3365	38043365	136.75	.3605	38043605	140.25	.3845	38043845	167.85
.2890	38042890	107.80	.3130	38043130	112.10	.3370	38043370	136.75	.3610	38043610	140.25	.3850	38043850	167.85
.2895	38042895	107.80	.3135	38043135	112.10	.3375	38043375	136.75	.3615	38043615	140.25	.3855	38043855	167.85
.2900	38042900	102.50	.3140	38043140	112.10	.3380	38043380	136.75	.3620	38043620	140.25	.3860	38043860	159.75
.2905	38042905	107.80	.3145	38043145	112.10	.3385	38043385	136.75	.3625	38043625	140.25	.3865	38043865	176.35
.2910	38042910	107.80	.3150	3804080	97.60	.3390	38043390	129.90	.3630	38043630	140.25	.3870	38043870	176.35
.2915	38042915	107.80	.3155	38043155	112.10	.3395	38043395	136.75	.3635	38043635	140.25	.3875	38043875	176.35

SOLID CARBIDE DECIMAL SIZE CHUCKING REAMERS

**TYPE 3804 - SOLID CARBIDE - STRAIGHT FLUTES - SHORT LENGTH
STANDARD DECIMAL DIAMETER REAMERS (.0005" INCREMENTS)
THIS PAGE .3880" THRU .5150"**

Short length solid carbide head and shank. Tool geometry appropriate for material being machined.
For fractional, wire and letter sizes, see page 54.



Tool diameter tolerance thru .2500": +.0002"/-.0000".
over .2500": +.0003"/-.0000".
Shank diameter tolerance: +.0000"/-.0010".

DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH
.3880	38043880	\$176.35	.4135	38044135	\$181.15	.4390	38044390	\$198.35	.4645	38044645	\$198.35	.4910	38044910	\$215.85
.3885	38043885	176.35	.4140	38044140	181.15	.4395	38044395	198.35	.4650	38044650	198.35	.4915	38044915	215.85
.3890	38043890	176.35	.4145	38044145	181.15	.4400	38044400	198.35	.4655	38044655	198.35	.4920	38044920	215.85
.3895	38043895	176.35	.4150	38044150	181.15	.4405	38044405	198.35	.4660	38044660	198.35	.4925	38044925	215.85
.3900	38043900	176.35	.4155	38044155	181.15	.4410	38044410	198.35	.4665	38044665	198.35	.4930	38044930	215.85
.3905	38043905	176.35	.4160	38044160	181.15	.4415	38044415	198.35	.4670	38044670	198.35	.4935	38044935	215.85
.3910	38043910	176.35	.4165	38044165	181.15	.4420	38044420	198.35	.4675	38044675	198.35	.4940	38044940	215.85
.3915	38043915	176.35	.4170	38044170	181.15	.4425	38044425	198.35	.4680	38044680	198.35	.4945	38044945	215.85
.3920	38043920	176.35	.4175	38044175	181.15	.4430	38044430	198.35	.4685	3804119	198.35	.4950	38044950	215.85
.3925	38043925	176.35	.4180	38044180	181.15	.4435	38044435	198.35	.4690	38044690	198.35	.4955	38044955	215.85
.3930	38043930	176.35	.4185	38044185	181.15	.4440	38044440	198.35	.4695	38044695	198.35	.4960	38044960	215.85
.3935	38043935	176.35	.4190	38044190	181.15	.4445	38044445	198.35	.4700	38044700	198.35	.4965	38044965	215.85
.3940	38043940	176.35	.4195	38044195	181.15	.4450	38044450	198.35	.4705	38044705	198.35	.4970	38044970	215.85
.3945	38043945	176.35	.4200	38044200	181.15	.4455	38044455	198.35	.4710	38044710	198.35	.4975	38044975	215.85
.3950	38043950	176.35	.4205	38044205	181.15	.4460	38044460	198.35	.4715	38044715	198.35	.4980	38044980	215.85
.3955	38043955	176.35	.4210	38044210	181.15	.4465	38044465	198.35	.4720	38044720	198.35	.4985	38044985	215.85
.3960	38043960	176.35	.4215	38044215	181.15	.4470	38044470	198.35	.4725	38044725	215.85	.4990	38044990	215.85
.3965	38043965	176.35	.4220	38044220	181.15	.4475	38044475	198.35	.4730	38044730	215.85	.4995	38044995	204.10
.3970	38043970	168.00	.4225	38044225	181.15	.4480	38044480	198.35	.4735	38044735	215.85	.5000	380432	204.10
.3975	38043975	176.35	.4230	38044230	181.15	.4485	38044485	198.35	.4740	38044740	215.85	.5005	38045005	256.20
.3980	38043980	176.35	.4235	38044235	181.15	.4490	38044490	198.35	.4745	38044745	215.85	.5010	38045010	256.20
.3985	38043985	176.35	.4240	38044240	181.15	.4495	38044495	198.35	.4750	38044750	215.85	.5015	38045015	256.20
.3990	38043990	176.35	.4245	38044245	181.15	.4500	38044500	198.35	.4755	38044755	215.85	.5020	38045020	256.20
.3995	38043995	176.35	.4250	38044250	181.15	.4505	38044505	198.35	.4760	38044760	215.85	.5025	38045025	256.20
.4000	38044000	176.35	.4255	38044255	181.15	.4510	38044510	198.35	.4765	38044765	215.85	.5030	38045030	256.20
.4005	38044005	176.35	.4260	38044260	181.15	.4515	38044515	198.35	.4770	38044770	215.85	.5035	38045035	256.20
.4010	38044010	176.35	.4265	38044265	181.15	.4520	38044520	198.35	.4775	38044775	215.85	.5040	38045040	256.20
.4015	38044015	176.35	.4270	38044270	181.15	.4525	38044525	198.35	.4780	38044780	215.85	.5045	38045045	256.20
.4020	38044020	176.35	.4275	38044275	181.15	.4530	38044530	198.35	.4785	38044785	215.85	.5050	38045050	256.20
.4025	38044025	176.35	.4280	38044280	181.15	.4535	38044535	198.35	.4790	38044790	215.85	.5055	38045055	256.20
.4030	38044030	176.35	.4285	38044285	181.15	.4540	38044540	198.35	.4795	38044795	215.85	.5060	38045060	256.20
.4035	38044035	176.35	.4290	38044290	181.15	.4545	38044545	198.35	.4800	38044800	215.85	.5065	38045065	256.20
.4040	38044040	168.00	.4295	38044295	181.15	.4550	38044550	198.35	.4805	38044805	215.85	.5070	38045070	256.20
.4045	38044045	176.35	.4300	38044300	181.15	.4555	38044555	198.35	.4810	38044810	215.85	.5075	38045075	256.20
.4050	38044050	176.35	.4305	38044305	181.15	.4560	38044560	198.35	.4815	38044815	215.85	.5080	38045080	256.20
.4055	3804103	176.35	.4310	38044310	181.15	.4565	38044565	198.35	.4820	38044820	215.85	.5085	38045085	256.20
.4060	38044060	176.35	.4315	38044315	181.15	.4570	38044570	198.35	.4835	38044835	215.85	.5090	38045090	256.20
.4065	38044065	176.35	.4320	38044320	181.15	.4575	38044575	198.35	.4840	38044840	215.85	.5095	38045095	256.20
.4070	38044070	176.35	.4325	38044325	181.15	.4580	38044580	198.35	.4845	38044845	215.85	.5100	38045100	256.20
.4075	38044075	176.35	.4330	38044330	181.15	.4585	38044585	198.35	.4850	38044850	215.85	.5105	38045105	256.20
.4080	38044080	176.35	.4335	38044335	181.15	.4590	38044590	198.35	.4855	38044855	215.85	.5110	38045110	256.20
.4085	38044085	176.35	.4340	38044340	181.15	.4595	38044595	198.35	.4860	38044860	215.85	.5115	38045115	256.20
.4090	38044090	176.35	.4345	38044345	181.15	.4600	38044600	198.35	.4865	38044865	215.85	.5120	38045120	256.20
.4095	38044095	176.35	.4350	38044350	181.15	.4605	38044605	198.35	.4870	38044870	215.85	.5125	38045125	256.20
.4100	38044100	176.35	.4355	38044355	181.15	.4610	38044610	198.35	.4875	38044875	215.85	.5130	38045130	256.20
.4105	38044105	176.35	.4360	38044360	181.15	.4615	38044615	198.35	.4880	38044880	215.85	.5135	38045135	256.20
.4110	38044110	176.35	.4365	38044365	181.15	.4620	38044620	198.35	.4885	38044885	215.85	.5140	38045140	256.20
.4115	38044115	176.35	.4370	3804111	181.15	.4625	38044625	198.35	.4890	38044890	215.85	.5145	38045145	256.20
.4120	38044120	176.35	.4375	380428	172.45	.4630	38044630	198.35	.4895	38044895	215.85	.5150	38045150	256.20
.4125	38044125	176.35	.4380	38044380	198.35	.4635	38044635	198.35	.4900	38044900	215.85	-	-	-
.4130	38044130	168.00	.4385	38044385	198.35	.4640	38044640	198.35	.4905	38044905	215.85	-	-	-

FEEDS & SPEEDS CHARTS FOR REAMERS - CARBIDE TIPPED

Feeds & speeds are a starting recommendation only. Factors such as machine, fixture and tooling rigidity, horsepower available, coolant application and others will affect the performance significantly. Please read machine operators instructions and use all safety shields and glasses before performing these operations.



$$\text{RPM} = \text{IPM} \times \text{IPR}$$

$$\text{RPM} = \text{SFPM} \times 3.82 / \text{Cutter Diameter}$$

CLASSIFICATION	MATERIAL	BRINELL	SPEED IN SFPM	FEED RATE (INCHES PER REVOLUTION)					HOLE DIAMETER IN INCHES			
			GENERAL PURPOSE (G.P.)	1/8	1/4	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2
NON-FERROUS (SOFT)	ALUMINUM ALLOY - CAST WROUGHT	30 - 150*	150 - 250	.004	.006	.008	.011	.012	.013	.016	.019	.020
	MAGNESIUM ALLOY	50 - 90*	130 - 190	.005	.010	.012	.015	.016	.017	.020	.022	.025
	LEAD ALLOY	10 - 20*	150 - 250	.002	.006	.008	.012	.014	.015	.018	.021	.022
	NON-METAL AND PLASTIC	-	90 - 250	.004	.005	.007	.008	.009	.012	.014	.016	.018
	ZINC ALLOY - DIE CAST	80 - 100	140 - 210	.005	.007	.008	.010	.011	.012	.015	.018	.020
NON-FERROUS (HARD)	ALUMINUM BRONZE	40 - 175	50 - 90	.004	.006	.010	.012	.014	.016	.018	.020	.022
	BRASS ALLOY - LEADED AND FREE CUTTING	10 - 100Rb	100 - 250	.005	.008	.011	.015	.017	.018	.020	.022	.025
	NICKEL SILVER	10 - 100Rb	50 - 90	.004	.006	.008	.010	.011	.012	.014	.015	.016
	COPPER ALLOY - TOUGH	40 - 200*	50 - 90	.005	.006	.008	.010	.011	.012	.014	.016	.017
CAST IRON	DUCTILE CAST IRON - AUSTENITIC	120 - 275	45 - 70	.004	.006	.007	.008	.010	.013	.015	.018	.020
	DUCTILE CAST IRON - FERRITIC	140 - 270	50 - 90	.004	.005	.008	.010	.012	.014	.017	.020	.023
	DUCTILE CAST IRON - MARTENSITIC	270 - 400	35 - 60	.004	.006	.007	.008	.009	.010	.012	.014	.016
	GRAY - PEARLITIC	220 - 320	45 - 70	.004	.006	.008	.009	.010	.012	.014	.018	.020
	GRAY - FERRITIC	120 - 220	65 - 135	.005	.008	.010	.011	.013	.016	.020	.022	.025
	MALLEABLE CAST IRON - MARTENSITIC	200 - 320	45 - 70	.004	.006	.008	.010	.012	.013	.015	.018	.025
LOW CARBON STEELS	LOW AND MEDIUM CARBON STEEL - FREE MACHINING	100 - 250	70 - 100	.005	.008	.010	.012	.014	.015	.020	.025	.030
	LOW AND MEDIUM CARBON STEEL - WROUGHT	100 - 375	30 - 85	.004	.008	.009	.011	.013	.015	.018	.020	.022
MEDIUM STRENGTH STEELS	LOW AND MEDIUM CARBON ALLOY STEEL - FREE MACHINING	100 - 275	65 - 100	.005	.008	.010	.015	.017	.018	.022	.025	.027
	LOW AND MEDIUM CARBON ALLOY STEEL	85 - 375	40 - 85	.005	.010	.012	.015	.018	.020	.025	.027	.030
	STAINLESS STEEL - 400 SERIES	135 - 325	40 - 90	.003	.005	.006	.007	.008	.008	.010	.011	.012
	STAINLESS STEEL - 400 SERIES FREE MACHINING	135 - 275	65 - 100	.004	.006	.007	.008	.009	.009	.010	.011	.012
HIGH STRENGTH STEELS	HIGH STRENGTH STEEL - WROUGHT & TOOL STEEL	175 - 400	35 - 70	.004	.006	.007	.008	.009	.010	.011	.012	.013
HIGH TEMP. ALLOYS	HIGH TEMP ALLOYS NICKEL & IRON BASE ALLOY	140 - 300	15 - 85	.003	.005	.005	.005	.006	.007	.008	.010	.012
	STAINLESS STEEL - 300 SERIES	135 - 375	40 - 75	.003	.004	.005	.006	.006	.007	.008	.009	.010
	STAINLESS STEEL - PH SERIES	150 - 440	35 - 70	.003	.004	.004	.005	.006	.007	.008	.009	.010
	TITANIUM ALLOY	110 - 380	30 - 45	.004	.006	.008	.010	.011	.011	.012	.013	.014

CLASSIFICATION	MATERIAL	BRINELL	SPEED IN SFPM	FEED RATE (INCHES PER REVOLUTION)					HOLE DIAMETER IN INCHES			
			COOLANT FED (C.F.)	1/8	1/4	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2
NON-FERROUS (SOFT)	ALUMINUM ALLOY - CAST WROUGHT	30 - 150*	200 - 300	-	.008	.010	.013	.015	.017	.021	.022	.024
	MAGNESIUM ALLOY	50 - 90*	150 - 250	-	.012	.015	.018	.019	.020	.024	.026	.028
	LEAD ALLOY	10 - 20*	200 - 300	-	.008	.010	.016	.017	.018	.022	.024	.026
	NON-METAL AND PLASTIC	-	125 - 300	-	.006	.008	.009	.010	.014	.016	.018	.020
	ZINC ALLOY - DIE CAST	80 - 100	170 - 240	-	.009	.011	.013	.014	.016	.020	.022	.025
NON-FERROUS (HARD)	ALUMINUM BRONZE	40 - 175	70 - 105	-	.008	.013	.015	.016	.018	.021	.024	.028
	BRASS ALLOY - LEADED AND FREE CUTTING	10 - 100Rb	125 - 300	-	.010	.014	.020	.022	.024	.026	.028	.032
	NICKEL SILVER	10 - 100Rb	70 - 190	-	.007	.010	.012	.013	.014	.017	.018	.018
	COPPER ALLOY - TOUGH	40 - 200*	70 - 105	-	.008	.010	.013	.014	.016	.018	.019	.020
CAST IRON	DUCTILE CAST IRON - AUSTENITIC	120 - 275	65 - 100	-	.008	.009	.011	.014	.016	.018	.020	.025
	DUCTILE CAST IRON - FERRITIC	140 - 270	70 - 105	-	.007	.010	.012	.015	.017	.022	.024	.027
	DUCTILE CAST IRON - MARTENSITIC	270 - 400	50 - 85	-	.008	.009	.010	.011	.013	.014	.017	.019
	GRAY - PEARLITIC	220 - 320	55 - 100	-	.008	.010	.012	.014	.015	.018	.020	.026
	GRAY - FERRITIC	120 - 220	95 - 190	-	.010	.013	.014	.017	.020	.024	.028	.030
	MALLEABLE CAST IRON - MARTENSITIC	200 - 320	65 - 100	-	.008	.010	.012	.014	.015	.020	.023	.030
LOW CARBON STEELS	LOW AND MEDIUM CARBON STEEL - FREE MACHINING	100 - 250	100 - 150	-	.012	.014	.016	.018	.020	.025	.030	.035
	LOW AND MEDIUM CARBON STEEL - WROUGHT	100 - 375	40 - 110	-	.009	.011	.013	.015	.017	.022	.024	.026
MEDIUM STRENGTH STEELS	LOW AND MEDIUM CARBON ALLOY STEEL - FREE MACHINING	100 - 275	90 - 135	-	.010	.012	.018	.020	.022	.025	.027	.030
	LOW AND MEDIUM CARBON ALLOY STEEL	85 - 375	65 - 100	-	.012	.015	.018	.022	.024	.028	.030	.033
	STAINLESS STEEL - 400 SERIES	135 - 325	50 - 100	-	.007	.007	.008	.009	.009	.012	.014	.015
	STAINLESS STEEL - 400 SERIES FREE MACHINING	135 - 275	90 - 135	-	.008	.009	.010	.011	.012	.013	.013	.014
HIGH STRENGTH STEELS	HIGH STRENGTH STEEL - WROUGHT & TOOL STEEL	175 - 400	50 - 100	-	.007	.008	.009	.011	.012	.014	.015	.016
HIGH TEMP. ALLOYS	HIGH TEMP ALLOYS NICKEL & IRON BASE ALLOY	140 - 300	20 - 115	-	.006	.007	.007	.008	.008	.010	.012	.015
	STAINLESS STEEL - 300 SERIES	135 - 375	60 - 90	-	.006	.007	.008	.008	.009	.010	.011	.012
	STAINLESS STEEL - PH SERIES	150 - 440	50 - 90	-	.006	.006	.007	.008	.009	.010	.012	.014
	TITANIUM ALLOY	110 - 380	40 - 60	-	.008	.010	.013	.014	.014	.016	.016	.018

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*500kg

Made in U.S.A.

CARBIDE TIPPED JOBBERS DRILL LENGTH REAMERS

TYPE 3401 - STRAIGHT SHANK - STRAIGHT FLUTES

Carbide tips brazed to one piece hardened alloy steel bodies. Straight polished flutes.

Designed and manufactured for maximum tool life. Used for all general types of reaming, including low carbon steel, cast iron, non-ferrous metals and non-metals. These shorter length reamers provide increased rigidity and should be used in applications requiring jobbers length drills.



TOOL DIAMETER		SHANK DIAM.	NO. OF FLUTES	LENGTH			EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL			FLT	CARB	OAL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.1562	5/32	.151	4	1	1/2	3 1/8	340105	\$96.85	.1560 - .1769	\$154.60	\$125.80	\$115.95	\$111.45	\$106.45	\$102.60
.1719	11/64	.151	4	1	1/2	3 1/4	34011719	96.85	-	-	-	-	-	-	-
.1875	3/16	11/64	4	1 1/8	1/2	3 1/2	340106	93.60	.1770 - .2040	149.85	121.70	112.25	107.75	103.05	99.25
.2031	13/64	11/64	4	1 1/8	1/2	3 5/8	34012031	94.25	-	-	-	-	-	-	-
.2188	7/32	13/64	4	1 1/4	1/2	3 3/4	340107	93.60	.2041 - .2210	149.85	121.70	112.25	107.75	103.05	99.25
.2344	15/64	7/32	4	1 1/2	1/2	3 7/8	34012344	94.25	.2211 - .2380	150.60	122.55	112.80	108.40	103.65	99.70
.2500	1/4	15/64	4	1 1/2	1/2	4	340108	93.60	.2381 - .2530	149.85	121.70	112.25	107.75	103.05	99.25
.2656	17/64	15/64	4	1 1/2	1/2	4 1/8	34012656	95.50	-	-	-	-	-	-	-
.2812	9/32	15/64	4	1 1/2	1/2	4 1/4	340109	94.95	.2531 - .2840	151.10	123.00	113.65	109.10	104.25	100.45
.2969	19/64	9/32	4	1 1/2	1/2	4 3/8	34012969	95.50	-	-	-	-	-	-	-
.3125	5/16	9/32	4	1 1/2	1/2	4 1/2	340110	94.95	.2841 - .3150	151.10	123.00	113.65	109.10	104.25	100.45
.3281	21/64	9/32	4	1 1/2	5/8	4 5/8	34013281	98.35	-	-	-	-	-	-	-
.3438	11/32	9/32	4	1 1/2	5/8	4 3/4	340111	97.30	.3151 - .3470	153.40	125.25	115.90	111.45	106.50	102.75
.3594	23/64	5/16	4	1 3/4	5/8	4 7/8	34013594	98.35	-	-	-	-	-	-	-
.3750	3/8	5/16	4	1 3/4	5/8	5	340112	89.35	.3471 - .3780	140.85	115.00	106.20	102.15	97.85	94.25
.3906	25/64	5/16	4	1 3/4	5/8	5 1/8	34013906	102.05	-	-	-	-	-	-	-
.4062	13/32	5/16	4	1 3/4	5/8	5 1/4	340113	100.40	.3781 - .4090	156.65	128.45	119.00	114.70	109.60	105.90
.4219	27/64	3/8	4	1 3/4	5/8	5 3/8	34014219	102.05	-	-	-	-	-	-	-
.4375	7/16	3/8	4	1 3/4	5/8	5 1/2	340114	104.80	.4091 - .4410	161.05	132.85	123.40	118.85	114.00	110.30
.4531	29/64	3/8	4	1 3/4	5/8	5 5/8	34014531	108.85	-	-	-	-	-	-	-
.4688	15/32	3/8	4	1 3/4	5/8	5 3/4	340115	109.45	.4411 - .4720	165.65	137.50	128.05	123.60	118.75	115.00
.4844	31/64	7/16	6	2	5/8	5 7/8	34014844	115.95	-	-	-	-	-	-	-
.5000	1/2	7/16	6	2	5/8	6	340116	122.95	.4721 - .5030	184.75	153.70	143.50	138.55	133.15	128.95
.5156	33/64	7/16	6	2	5/8	6 5/8	34015156	130.65	-	-	-	-	-	-	-
.5312	17/32	7/16	6	2	5/8	6 3/4	340117	130.65	.5031 - .5340	192.50	161.40	151.10	146.20	140.90	136.75
.5469	35/64	7/16	6	2	5/8	6 3/4	34015469	130.65	-	-	-	-	-	-	-
.5625	9/16	7/16	6	2	5/8	6 3/4	340118	130.65	.5341 - .5660	192.50	161.40	151.10	146.20	140.90	136.75
.5781	37/64	7/16	6	2	5/8	6 3/4	34015781	134.20	-	-	-	-	-	-	-
.5938	19/32	7/16	6	2	5/8	7 1/8	340119	134.20	.5661 - .5970	196.25	165.25	154.90	149.85	144.45	140.45
.6094	39/64	9/16	6	2 1/4	5/8	7 1/8	34016094	134.20	-	-	-	-	-	-	-
.6250	5/8	9/16	6	2 1/4	5/8	7 1/8	340120	134.20	.5971 - .6280	196.25	165.25	154.90	149.85	144.45	140.45
.6406	41/64	9/16	6	2 1/4	5/8	7 1/8	34016406	135.95	-	-	-	-	-	-	-
.6562	21/32	9/16	6	2 1/4	5/8	7 1/8	340121	135.95	.6281 - .6590	197.85	166.90	156.50	151.50	146.20	142.00
.6719	43/64	9/16	6	2 1/4	5/8	7 5/8	34016719	135.95	-	-	-	-	-	-	-
.6875	11/16	9/16	6	2 1/4	5/8	7 5/8	340122	135.95	.6591 - .6910	197.85	166.90	156.50	151.50	146.20	142.00
.7031	45/64	9/16	6	2 1/4	5/8	7 5/8	34017031	140.60	-	-	-	-	-	-	-
.7188	23/32	9/16	6	2 1/4	5/8	7 5/8	340123	140.60	.6911 - .7220	202.45	171.60	161.20	156.20	150.90	146.65
.7344	47/64	5/8	6	2 1/2	3/4	7 5/8	34017344	140.60	-	-	-	-	-	-	-
.7500	3/4	5/8	6	2 1/2	3/4	8	340124	140.60	.7221 - .7530	202.45	171.60	161.20	156.20	150.90	146.65

REAMER EXPEDITE FEES

*Quantities of 15 or more: price of fractional size in same size range.

REAMER DIAMETER	SERVICE	FEE
Up to 1.0000"	24 Hour	\$105.00
Up to 1.0000"	48 Hour	70.00
Over 1.0000"	48 Hour	105.00
Over 1.0000"	72 Hour	70.00

Order must be received by 3:00 PM EST (Exceptions may apply)

18 pieces max per diameter, 4 diameters max per order, 1 fee per diameter

Does NOT apply to types 3401, 3431, 3441, 3490, or Variable Length Reamers

Does NOT require air shipment of the product

REAMER TOLERANCES & CLOSER TOLERANCE PRICING

TOOL TYPE	TOOL DIAMETER TOLERANCES			CLOSER TOLERANCE PRICING			TOOL TYPE	SHANK DIAMETER TOLERANCES (BASED ON TOOL DIAMETER)	
				.0001"	.0002"	.0003"			
3480, NAS 897 EXCLUDING COOLANT	.0000" THRU .5000"	+.0002"/-.0000"		\$4.20	-	-	NAS 897 & COOLANT	UP TO 23/32"	+.0000"/-.0010"
	.5001" THRU .7500"	+.0003"/-.0000"		4.20	\$1.40	-		OVER 23/32"	+.0000"/-.0015"
	.7501" AND UP	+.0004"/-.0000"		7.00	4.20	\$1.40			
ALL OTHER REAMERS	.0000" THRU 1.5000"	+.0003"/-.0000"		4.20	1.40	-	ALL OTHER REAMERS	ALL SIZES -.0005"/-.0015"	
	1.5001" AND UP	+.0004"/-.0000"		7.00	4.20	1.40			

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CARBIDE TIPPED OVER & UNDER SIZE REAMERS

TYPE 3479 - JOBBERS DRILL LENGTH STRAIGHT SHANK & FLUTES

These precision ground carbide tipped reamers
are very convenient for finishing accurate
holes in most materials.

Same specifications as Type 3401 (pg. 60).

Tool diameter tolerance: +.0002"/-.0000".

TOOL DIAMETER	SHANK DIAM.	NO. OF FLUTES	LENGTH			TYPE 3479 EDP NO.	PRICE EACH
			FLT	CARB	OAL		
.1865	1 ¹ / ₆₄	4	1 1/8	1/2	3 1/2	347918	\$94.25
.1885	1 ¹ / ₆₄	4	1 1/8	1/2	3 1/2	347919	94.25
.2490	1 ⁵ / ₆₄	4	1 1/2	1/2	4	347924	94.25
.2510	1 ⁵ / ₆₄	4	1 1/2	1/2	4	347925	94.25
.3115	9 ³ / ₃₂	4	1 1/2	1/2	4 1/2	347931	95.50
.3135	9 ³ / ₃₂	4	1 1/2	1/2	4 1/2	347932	95.50
.3740	5 ¹ / ₁₆	4	1 3/4	5/8	5	347937	98.35
.3760	5 ¹ / ₁₆	4	1 3/4	5/8	5	347938	98.35
.4365	3/8	4	1 3/4	5/8	5 1/2	347943	108.85
.4385	3/8	4	1 3/4	5/8	5 1/2	347944	108.85
.4990	7 ¹ / ₁₆	6	2	5/8	6	347949	115.95
.5010	7 ¹ / ₁₆	6	2	5/8	6	347950	115.95

TYPE 3478 - REGULAR LENGTH STRAIGHT SHANK & FLUTES

These precision ground carbide tipped reamers
are very convenient for finishing accurate
holes in most materials.

Same specifications as Type 3400 (pg. 62).

Tool diameter tolerance: +.0002"/-.0000".

TOOL DIAMETER	SHANK DIAM.	NO. OF FLUTES	LENGTH			TYPE 3478 EDP NO.	PRICE EACH
			FLT	CARB	OAL		
.1865	1 ¹ / ₆₄	4	1 1/8	1/2	4 1/2	347818	\$75.75
.1885	1 ¹ / ₆₄	4	1 1/8	1/2	4 1/2	347819	75.75
.2490	1 ⁵ / ₆₄	4	1 1/2	1/2	6	347824	75.75
.2510	1 ⁵ / ₆₄	4	1 1/2	1/2	6	347825	75.75
.3115	9 ³ / ₃₂	4	1 1/2	1/2	6	347831	77.40
.3135	9 ³ / ₃₂	4	1 1/2	1/2	6	347832	77.40
.3740	5 ¹ / ₁₆	4	1 3/4	5/8	7	347837	80.30
.3760	5 ¹ / ₁₆	4	1 3/4	5/8	7	347838	80.30
.4365	3/8	4	1 3/4	5/8	7	347843	89.75
.4385	3/8	4	1 3/4	5/8	7	347844	89.75
.4990	7 ¹ / ₁₆	6	2	5/8	8	347849	98.35
.5010	7 ¹ / ₁₆	6	2	5/8	8	347850	98.35
.6240	9 ¹ / ₁₆	6	2 1/4	5/8	9	347862	117.95
.6260	9 ¹ / ₁₆	6	2 1/4	5/8	9	347863	117.95
.7490	5/8	6	2 1/2	3/4	9 1/2	347874	124.30
.7510	5/8	6	2 1/2	3/4	9 1/2	347875	124.30
.8740	3/4	6	2 5/8	3/4	10	347886	132.05
.8760	3/4	6	2 5/8	3/4	10	347887	137.05
.9990	7/8	8	2 3/4	3/4	10 1/2	347898	162.85
1.0010	7/8	8	2 3/4	3/4	10 1/2	347899	156.05

CARBIDE TIPPED DOWEL PIN SIZE REAMERS

TYPE 3477 - JOBBERS DRILL LENGTH STRAIGHT SHANK & FLUTES

These precision ground carbide tipped reamers
accurately finish holes in most materials
resulting in properly fitting dowel pins.

Should be used in pairs of .0005" and
.0020" under the fractional size.

Note special undersize tolerance.

Same specifications as Type 3401 (pg. 60).

Tool diameter tolerance: +.0000"/-.0002".

TOOL DIAMETER	SHANK DIAM.	NO. OF FLUTES	LENGTH			TYPE 3477 EDP NO.	PRICE EACH
			FLT	CARB	OAL		
.1855	1 ¹ / ₆₄	4	1 1/8	1/2	3 1/2	347717	\$94.25
.1870	1 ¹ / ₆₄	4	1 1/8	1/2	3 1/2	347718	94.25
.2480	1 ⁵ / ₆₄	4	1 1/2	1/2	4	347723	94.25
.2495	1 ⁵ / ₆₄	4	1 1/2	1/2	4	347724	94.25
.3105	9 ³ / ₃₂	4	1 1/2	1/2	4 1/2	347730	95.50
.3120	9 ³ / ₃₂	4	1 1/2	1/2	4 1/2	347731	95.50
.3730	5 ¹ / ₁₆	4	1 3/4	5/8	5	347736	98.35
.3745	5 ¹ / ₁₆	4	1 3/4	5/8	5	347737	98.35
.4355	3/8	4	1 3/4	5/8	5 1/2	347742	108.85
.4370	3/8	4	1 3/4	5/8	5 1/2	347743	108.85
.4980	7 ¹ / ₁₆	6	2	5/8	6	347748	115.95
.4995	7 ¹ / ₁₆	6	2	5/8	6	347749	115.95

TYPE 3476 - REGULAR LENGTH STRAIGHT SHANK & FLUTES

These precision ground carbide tipped reamers
accurately finish holes in most materials
resulting in properly fitting dowel pins.

Should be used in pairs of .0005" and
.0020" under the fractional size.

Note special undersize tolerance.

Same specifications as Type 3400 (pg. 62).

Tool diameter tolerance: +.0000"/-.0002".

TOOL DIAMETER	SHANK DIAM.	NO. OF FLUTES	LENGTH			TYPE 3476 EDP NO.	PRICE EACH
			FLT	CARB	OAL		
.1855	1 ¹ / ₆₄	4	1 1/8	1/2	4 1/2	347617	\$75.75
.1870	1 ¹ / ₆₄	4	1 1/8	1/2	4 1/2	347618	75.75
.2480	1 ⁵ / ₆₄	4	1 1/2	1/2	6	347623	75.75
.2495	1 ⁵ / ₆₄	4	1 1/2	1/2	6	347624	75.75
.3105	9 ³ / ₃₂	4	1 1/2	1/2	6	347630	77.40
.3120	9 ³ / ₃₂	4	1 1/2	1/2	6	347631	77.40
.3730	5 ¹ / ₁₆	4	1 3/4	5/8	7	347636	80.30
.3745	5 ¹ / ₁₆	4	1 3/4	5/8	7	347637	80.30
.4355	3/8	4	1 3/4	5/8	7	347642	89.75
.4370	3/8	4	1 3/4	5/8	7	347643	89.75
.4980	7 ¹ / ₁₆	6	2	5/8	8	347648	98.35
.4995	7 ¹ / ₁₆	6	2	5/8	8	347649	98.35
CASED SET OF ABOVE 12 REAMERS						347600	945.10

CARBIDE TIPPED REGULAR LENGTH CHUCKING REAMERS

TYPE 3400 - STRAIGHT SHANK - STRAIGHT FLUTES

Carbide tips brazed to one piece hardened alloy steel bodies. Straight polished flutes.

Designed and manufactured for maximum tool life. Used for all general types of reaming, including low carbon steels, cast iron, non-ferrous metals and non-metals.



For metric sizes, see page 64.

For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		SHANK DIAM.	NO. OF FLUTES	LENGTH			EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRAC.			FLT	CARB	OAL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.1562	5/32	.151	4	1	1/2	4	340005	\$65.60	.1560 - .1769	\$124.05	\$94.35	\$84.80	\$80.15	\$75.15	\$71.30
.1719	11/64	.151	4	1	1/2	4	34001719	65.60	-	-	-	-	-	-	-
.1875	3/16	11/64	4	1 1/8	1/2	4 1/2	340006	60.20	.1770 - .2040	116.40	88.25	79.00	74.25	69.55	65.70
.1875	3/16	11/64	4	1 1/4	1/2	5	340086	63.75	.1770 - .2040	120.00	91.80	82.65	77.85	73.10	69.35
.2031	13/64	11/64	4	1 1/8	1/2	4 1/2	34002031	63.75	-	-	-	-	-	-	-
.2188	7/32	13/64	4	1 1/4	1/2	5	340007	60.20	.2041 - .2210	116.40	88.25	79.00	74.25	69.55	65.70
.2344	15/64	7/32	4	1 1/2	1/2	6	34002344	63.75	.2211 - .2380	120.00	91.80	82.65	77.85	73.10	69.35
.2500	1/4	15/64	4	1 1/2	1/2	6	340008	60.20	.2381 - .2530	116.40	88.25	79.00	74.25	69.55	65.70
.2656	17/64	15/64	4	1 1/2	1/2	6	34002656	65.15	-	-	-	-	-	-	-
.2812	9/32	15/64	4	1 1/2	1/2	6	340009	61.55	.2531 - .2840	117.70	89.60	80.20	75.70	70.75	67.00
.2969	19/64	9/32	4	1 1/2	1/2	6	34002969	65.15	-	-	-	-	-	-	-
.3125	5/16	9/32	4	1 1/2	1/2	6	340010	61.55	.2841 - .3150	117.70	89.60	80.20	75.70	70.75	67.00
.3281	21/64	9/32	4	1 1/2	5/8	6	34003281	67.60	-	-	-	-	-	-	-
.3438	11/32	9/32	4	1 1/2	5/8	6	340011	63.65	.3151 - .3470	119.90	91.70	82.25	77.80	73.05	69.15
.3594	23/64	5/16	4	1 3/4	5/8	7	34003594	67.60	-	-	-	-	-	-	-
.3750	3/8	5/16	4	1 3/4	5/8	7	340012	63.65	.3471 - .3780	119.90	91.70	82.25	77.80	73.05	69.15
.3906	25/64	5/16	4	1 3/4	5/8	7	34003906	71.05	-	-	-	-	-	-	-
.4062	13/32	5/16	4	1 3/4	5/8	7	340013	66.85	.3781 - .4090	123.00	94.90	85.45	80.90	76.05	72.35
.4219	27/64	3/8	4	1 3/4	5/8	7	34004219	75.60	-	-	-	-	-	-	-
.4375	7/16	3/8	4	1 3/4	5/8	7	340014	71.35	.4091 - .4410	127.55	99.40	89.80	85.45	80.50	76.90
.4531	29/64	3/8	4	1 3/4	5/8	7	34004531	76.80	-	-	-	-	-	-	-
.4688	15/32	3/8	4	1 3/4	5/8	7	340015	72.35	.4411 - .4720	128.60	100.40	90.95	86.40	81.65	77.80
.4844	31/64	7/16	6	2	5/8	8	34004844	82.95	-	-	-	-	-	-	-
.5000	1/2	7/16	6	2	5/8	8	340016	86.05	.4721 - .5030	147.95	117.05	106.50	101.70	96.25	92.10
.5156	33/64	7/16	6	2	5/8	8	34005156	93.60	-	-	-	-	-	-	-
.5312	17/32	7/16	6	2	5/8	8	340017	93.60	.5031 - .5340	155.65	124.65	114.25	109.25	103.85	99.70
.5469	35/64	7/16	6	2	5/8	8	34005469	93.60	-	-	-	-	-	-	-
.5625	9/16	7/16	6	2	5/8	8	340018	93.60	.5341 - .5660	155.65	124.65	114.25	109.25	103.85	99.70
.5781	37/64	7/16	6	2	5/8	8	34005781	97.45	-	-	-	-	-	-	-
.5938	19/32	7/16	6	2	5/8	8	340019	97.45	.5661 - .5970	159.45	128.30	117.95	113.10	107.65	103.65
.6094	39/64	9/16	6	2 1/4	5/8	9	34006094	97.45	-	-	-	-	-	-	-
.6250	5/8	9/16	6	2 1/4	5/8	9	340020	97.45	.5971 - .6280	159.45	128.30	117.95	113.10	107.65	103.65
.6406	41/64	9/16	6	2 1/4	5/8	9	34006406	99.20	-	-	-	-	-	-	-
.6562	21/32	9/16	6	2 1/4	5/8	9	340021	99.20	.6281 - .6590	161.05	129.90	119.60	114.75	109.30	105.25
.6719	43/64	9/16	6	2 1/4	5/8	9	34006719	99.20	-	-	-	-	-	-	-
.6875	11/16	9/16	6	2 1/4	5/8	9	340022	99.20	.6591 - .6910	161.05	129.90	119.60	114.75	109.30	105.25
.7031	45/64	9/16	6	2 1/4	5/8	9	34007031	103.80	-	-	-	-	-	-	-
.7188	23/32	9/16	6	2 1/4	5/8	9	340023	103.80	.6911 - .7220	165.65	134.80	124.30	119.45	114.00	109.90
.7344	47/64	5/8	6	2 1/2	3/4	9 1/2	34007344	103.80	-	-	-	-	-	-	-
.7500	3/4	5/8	6	2 1/2	3/4	9 1/2	340024	103.80	.7221 - .7530	165.65	134.80	124.30	119.45	114.00	109.90

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TOOL DIAMETER		SHANK DIAM.	NO. OF FLUTES	LENGTH			EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL			FLT	CARB	OAL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.7656	$\frac{49}{64}$	$\frac{5}{8}$	6	2 1/2	$\frac{3}{4}$	9 1/2	34007656	\$107.20	-	-	-	-	-	-	-
.7812	$\frac{25}{32}$	$\frac{5}{8}$	6	2 1/2	$\frac{3}{4}$	9 1/2	340025	107.20	.7531 - .7840	\$169.05	\$138.05	\$127.75	\$122.85	\$117.50	\$113.25
.7969	$\frac{51}{64}$	$\frac{5}{8}$	6	2 1/2	$\frac{3}{4}$	9 1/2	34007969	107.20	-	-	-	-	-	-	-
.8125	$\frac{13}{16}$	$\frac{5}{8}$	6	2 1/2	$\frac{3}{4}$	9 1/2	340026	107.20	.7841 - .8160	169.05	138.05	127.75	122.85	117.50	113.25
.8281	$\frac{53}{64}$	$\frac{5}{8}$	6	2 1/2	$\frac{3}{4}$	9 1/2	34008281	111.50	-	-	-	-	-	-	-
.8438	$\frac{27}{32}$	$\frac{5}{8}$	6	2 1/2	$\frac{3}{4}$	9 1/2	340027	111.50	.8161 - .8470	173.45	142.35	132.05	127.10	121.70	117.55
.8594	$\frac{55}{64}$	$\frac{3}{4}$	6	2 5/8	$\frac{3}{4}$	10	34008594	111.50	-	-	-	-	-	-	-
.8750	$\frac{7}{8}$	$\frac{3}{4}$	6	2 5/8	$\frac{3}{4}$	10	340028	115.75	.8471 - .8780	179.85	147.80	137.05	131.90	126.25	121.95
.8906	$\frac{57}{64}$	$\frac{3}{4}$	6	2 5/8	$\frac{3}{4}$	10	34008906	134.80	-	-	-	-	-	-	-
.9062	$\frac{29}{32}$	$\frac{3}{4}$	6	2 5/8	$\frac{3}{4}$	10	340029	134.80	.8781 - .9090	199.00	166.75	156.10	150.95	145.40	141.05
.9219	$\frac{59}{64}$	$\frac{3}{4}$	8	2 5/8	$\frac{3}{4}$	10	34009219	134.80	-	-	-	-	-	-	-
.9375	$\frac{15}{16}$	$\frac{3}{4}$	8	2 5/8	$\frac{3}{4}$	10	340030	134.80	.9091 - .9410	199.00	166.75	156.10	150.95	145.40	141.05
.9531	$\frac{61}{64}$	$\frac{3}{4}$	8	2 5/8	$\frac{3}{4}$	10	34009531	141.20	-	-	-	-	-	-	-
.9688	$\frac{31}{32}$	$\frac{3}{4}$	8	2 5/8	$\frac{3}{4}$	10	340031	141.20	.9411 - .9720	205.55	173.35	162.75	157.55	151.90	147.55
.9844	$\frac{63}{64}$	$\frac{7}{8}$	8	2 3/4	$\frac{3}{4}$	10 1/2	34009844	141.20	-	-	-	-	-	-	-
1.0000	1	$\frac{7}{8}$	8	2 3/4	$\frac{3}{4}$	10 1/2	340032	141.20	.9721 - 1.0030	205.55	173.35	162.75	157.55	151.90	147.55
1.0625	$1 \frac{1}{16}$	$\frac{7}{8}$	8	2 3/4	$\frac{3}{4}$	10 1/2	340034	146.05	1.0031 - 1.0660	207.75	176.90	166.45	161.70	156.35	152.10
1.1250	$1 \frac{1}{8}$	$\frac{7}{8}$	8	2 7/8	$\frac{7}{8}$	11	340036	157.85	1.0661 - 1.1280	219.55	188.70	178.50	173.50	168.05	164.00
1.1875	$1 \frac{3}{16}$	1	8	2 7/8	$\frac{7}{8}$	11	340038	166.10	1.1281 - 1.1905	227.55	196.80	186.45	181.45	176.30	172.00
1.2500	$1 \frac{1}{4}$	1	8	3	$\frac{7}{8}$	11 1/2	340040	175.45	1.1906 - 1.2530	237.15	206.45	195.95	191.10	185.75	181.50
1.3125	$1 \frac{5}{16}$	1	8	3	$\frac{7}{8}$	11 1/2	340042	184.70	1.2531 - 1.3155	246.25	215.40	204.95	200.20	194.80	190.75
1.3750	$1 \frac{3}{8}$	1	8	3 1/4	$\frac{7}{8}$	12	340044	195.95	1.3156 - 1.3780	257.40	226.70	216.45	211.45	206.30	202.15
1.4375	$1 \frac{7}{16}$	$1 \frac{1}{4}$	8	3 1/4	$\frac{7}{8}$	12	340046	218.35	1.3781 - 1.4405	280.00	249.20	238.80	233.90	228.60	224.45
1.5000	$1 \frac{1}{2}$	$1 \frac{1}{4}$	8	3 1/2	$\frac{7}{8}$	12 1/2	340048	230.90	1.4406 - 1.5030	292.40	261.60	251.15	246.40	241.10	236.85
1.5625	$1 \frac{9}{16}$	$1 \frac{1}{4}$	8	3 1/2	$\frac{7}{8}$	12 1/2	340050	342.85	1.5031 - 1.5660	404.40	373.60	363.35	358.35	353.15	348.90
1.6250	$1 \frac{5}{8}$	$1 \frac{1}{4}$	8	3 3/4	$\frac{7}{8}$	13	340052	354.65	1.5661 - 1.6280	416.05	385.35	375.00	370.05	364.75	360.60
1.6875	$1 \frac{11}{16}$	$1 \frac{1}{4}$	8	3 3/4	$\frac{7}{8}$	13	340054	398.80	1.6281 - 1.6910	460.50	429.65	419.30	414.45	409.20	405.00
1.7500	$1 \frac{3}{4}$	$1 \frac{1}{4}$	10	4	$\frac{7}{8}$	13 1/2	340056	398.80	1.6911 - 1.7530	460.50	429.65	419.30	414.45	409.20	405.00
1.8125	$1 \frac{13}{16}$	$1 \frac{1}{2}$	10	4	$\frac{7}{8}$	13 1/2	340058	398.80	1.7531 - 1.8160	460.50	429.65	419.30	414.45	409.20	405.00
1.8750	$1 \frac{7}{8}$	$1 \frac{1}{2}$	10	4 1/4	$\frac{7}{8}$	14	340060	418.00	1.8161 - 1.8780	479.45	448.60	438.20	433.35	428.05	423.80
1.9375	$1 \frac{15}{16}$	$1 \frac{1}{2}$	10	4 1/4	$\frac{7}{8}$	14	340062	418.00	1.8781 - 1.9410	479.45	448.60	438.20	433.35	428.05	423.80
2.0000	2	$1 \frac{1}{2}$	12	4 1/4	$\frac{7}{8}$	14	340064	418.00	1.9411 - 2.0030	479.45	448.60	438.20	433.35	428.05	423.80

*Quantities of 15 or more: price of fractional size in same size range.

WIRE & LETTER SIZES

For reamer tolerances, see page 60.

TOOL DIAMETER		SHANK DIAM.	NO. OF FLUTES	LENGTH			EDP NO.	PRICE EACH
WIRE LETTER	DECIMAL			FLT	CARB	OAL		
22	.1570	.151	4	1	1/2	4	34001570	\$84.80
21	.1590	.151	4	1	1/2	4	34001590	84.80
20	.1610	.151	4	1	1/2	4	34001610	84.80
19	.1660	.151	4	1	1/2	4	34001660	84.80
18	.1695	.151	4	1	1/2	4	34001695	84.80
17	.1730	.151	4	1	1/2	4	34001730	84.80
16	.1770	$\frac{11}{64}$	4	1 1/8	1/2	4 1/2	34001770	79.00
15	.1800	$\frac{11}{64}$	4	1 1/8	1/2	4 1/2	34001800	79.00
14	.1820	$\frac{11}{64}$	4	1 1/8	1/2	4 1/2	34001820	79.00
13	.1850	$\frac{11}{64}$	4	1 1/8	1/2	4 1/2	3400047	79.00
12	.1890	$\frac{11}{64}$	4	1 1/8	1/2	4 1/2	3400048	79.00
11	.1910	$\frac{11}{64}$	4	1 1/8	1/2	4 1/2	34001910	79.00
10	.1935	$\frac{11}{64}$	4	1 1/8	1/2	4 1/2	34001935	79.00
9	.1960	$\frac{11}{64}$	4	1 1/8	1/2	4 1/2	34001960	79.00
8	.1990	$\frac{11}{64}$	4	1 1/8	1/2	4 1/2	34001990	79.00
7	.2010	$\frac{11}{64}$	4	1 1/8	1/2	4 1/2	34002010	79.00
6	.2040	$\frac{11}{64}$	4	1 1/8	1/2	4 1/2	34002040	79.00
5	.2055	$\frac{13}{64}$	4	1 1/4	1/2	5	34002055	79.00
4	.2090	$\frac{13}{64}$	4	1 1/4	1/2	5	34002090	79.00
3	.2130	$\frac{13}{64}$	4	1 1/4	1/2	5	34002130	79.00
2	.2210	$\frac{13}{64}$	4	1 1/4	1/2	5	34002210	79.00
1	.2280	$\frac{7}{32}$	4	1 1/2	1/2	6	34002280	82.65
A	.2340	$\frac{7}{32}$	4	1 1/2	1/2	6	34002340	82.65
B	.2380	$\frac{7}{32}$	4	1 1/2	1/2	6	34002380	82.65
C	.2420	$\frac{15}{64}$	4	1 1/2	1/2	6	34002420	\$79.00
D	.2460	$\frac{15}{64}$	4	1 1/2	1/2	6	34002460	79.00
E	.2500	$\frac{15}{64}$	4	1 1/2	1/2	6	3400008	60.20
F	.2570	$\frac{15}{64}$	4	1 1/2	1/2	6	34002570	80.20
G	.2610	$\frac{15}{64}$	4	1 1/2	1/2	6	34002610	80.20
H	.2660	$\frac{15}{64}$	4	1 1/2	1/2	6	34002660	80.20
I	.2720	$\frac{15}{64}$	4	1 1/2	1/2	6	34002720	80.20
J	.2770	$\frac{15}{64}$	4	1 1/2	1/2	6	34002770	80.20
K	.2810	$\frac{15}{64}$	4	1 1/2	1/2	6	34002810	80.20
L	.2900	$\frac{9}{32}$	4	1 1/2	1/2	6	34002900	80.20
M	.2950	$\frac{9}{32}$	4	1 1/2	1/2	6	34002950	80.20
N	.3020	$\frac{9}{32}$	4	1 1/2	1/2	6	34003020	80.20
O	.3160	$\frac{9}{32}$	4	1 1/2	1/2	6	34003160	82.25
P	.3230	$\frac{9}{32}$	4	1 1/2	1/2	6	34003230	82.25
Q	.3320	$\frac{9}{32}$	4	1 1/2	1/2	6	34003320	82.25
R	.3390	$\frac{9}{32}$	4	1 1/2	1/2	6	34003390	82.25
S	.3480	$\frac{5}{16}$	4	1 3/4	5/8	7	34003480	82.25
T	.3580	$\frac{5}{16}$	4	1 3/4	5/8	7	34003580	82.25
U	.3680	$\frac{5}{16}$	4	1 3/4	5/8	7	34003680	82.25
V	.3770	$\frac{5}{16}$	4	1 3/4	5/8	7	34003770	82.25
W	.3860	$\frac{5}{16}$	4	1 3/4	5/8	7	34003860	85.45
X	.3970	$\frac{5}{16}$	4	1 3/4	5/8	7	34003970	85.45
Y	.4040	$\frac{5}{16}$	4	1 3/4	5/8	7	34004040	85.45
Z	.4130	$\frac{3}{8}$	4	1 3/4	5/8	7	34004130	89.80

CARBIDE TIPPED REGULAR LENGTH CHUCKING REAMERS

TYPE 3400 - STRAIGHT SHANK - STRAIGHT FLUTES

Detailed description and fractional sizes on pages 62 & 63. Tolerances on page 60. Tool diameter in millimeters with all other dimensions in inches.



TOOL DIAMETER		SHANK DIAM.	NO. OF FLUTES	LENGTH			EDP NO.	PRICE EACH	METRIC SIZE RANGE	PRICE EACH - FINISHED TO METRIC SIZE						
mm	INCH			FLT	CARB	OAL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
4.0	.1575	.151	4	1	½	4	3400040	\$84.80	3.962 - 4.493	\$128.15	\$99.40	\$89.65	\$84.90	\$80.15	\$76.00	\$70.55
4.5	.1772	1/64	4	1 ½	½	4 ½	3400045	79.00	4.494 - 5.182	121.20	93.15	83.75	79.15	74.25	70.45	65.10
5.0	.1969	1/64	4	1 ½	½	4 ½	3400050	79.00	-	-	-	-	-	-	-	-
5.5	.2165	13/64	4	1 ¼	½	5	3400055	79.00	5.183 - 5.613	121.20	93.15	83.75	79.15	74.25	70.45	65.10
6.0	.2362	7/32	4	1 ½	½	6	3400060	82.65	5.614 - 6.045	124.80	96.75	87.25	82.70	77.85	74.00	68.55
6.3	.2480	15/64	4	1 ½	½	6	3400063	79.00	6.046 - 6.426	121.20	93.15	83.75	79.15	74.25	70.45	65.10
6.5	.2559	15/64	4	1 ½	½	6	3400065	80.20	6.427 - 7.214	122.60	94.35	85.05	80.35	75.70	71.65	66.30
7.0	.2756	15/64	4	1 ½	½	6	3400070	80.20	-	-	-	-	-	-	-	-
7.5	.2953	9/32	4	1 ½	½	6	3400075	80.20	7.215 - 8.001	122.60	94.35	85.05	80.35	75.70	71.65	66.30
8.0	.3150	9/32	4	1 ½	½	6	3400080	80.20	-	-	-	-	-	-	-	-
8.5	.3346	9/32	4	1 ½	5/8	6	3400085	82.25	8.002 - 8.814	124.75	96.60	87.15	82.65	77.80	73.95	68.50
9.0	.3543	5/16	4	1 ¾	5/8	7	3400090	82.25	8.815 - 9.601	124.75	96.60	87.15	82.65	77.80	73.95	68.50
9.5	.3740	5/16	4	1 ¾	5/8	7	347837	80.30	-	-	-	-	-	-	-	-
10.0	.3937	5/16	4	1 ¾	5/8	7	3400100	85.45	9.602 - 10.389	127.75	99.65	90.25	85.65	80.90	77.05	71.60
10.5	.4134	3/8	4	1 ¾	5/8	7	3400105	89.80	10.390 - 11.201	132.20	104.20	94.80	90.10	85.45	81.55	76.05
11.0	.4331	3/8	4	1 ¾	5/8	7	3400110	89.80	-	-	-	-	-	-	-	-
11.5	.4528	3/8	4	1 ¾	5/8	7	3400115	90.95	11.202 - 11.989	133.20	105.25	95.80	91.25	86.40	82.65	77.20
12.0	.4724	7/16	6	2	5/8	8	3400120	106.50	11.990 - 12.776	153.15	122.15	111.90	106.95	101.70	97.35	91.40
12.5	.4921	7/16	6	2	5/8	8	3400125	106.50	-	-	-	-	-	-	-	-
13.0	.5118	7/16	6	2	5/8	8	3400130	114.25	12.777 - 13.564	160.75	129.80	119.50	114.40	109.25	104.95	99.05
13.5	.5315	7/16	6	2	5/8	8	3400135	114.25	-	-	-	-	-	-	-	-
14.0	.5512	7/16	6	2	5/8	8	3400140	114.25	13.565 - 14.376	160.75	129.80	119.50	114.40	109.25	104.95	99.05
14.5	.5709	7/16	6	2	5/8	8	3400145	117.95	14.377 - 15.164	164.60	133.65	123.25	118.25	113.10	108.80	102.75
15.0	.5906	7/16	6	2	5/8	8	3400150	117.95	-	-	-	-	-	-	-	-
15.5	.6102	9/16	6	2 ¼	5/8	9	3400155	117.95	15.165 - 15.951	164.60	133.65	123.25	118.25	113.10	108.80	102.75
16.0	.6299	9/16	6	2 ¼	5/8	9	3400160	119.60	15.952 - 16.739	166.30	135.30	124.90	119.75	114.75	110.40	104.35
16.5	.6496	9/16	6	2 ¼	5/8	9	3400165	119.60	-	-	-	-	-	-	-	-
17.0	.6693	9/16	6	2 ¼	5/8	9	3400170	119.60	16.740 - 17.551	166.30	135.30	124.90	119.75	114.75	110.40	104.35
17.5	.6890	9/16	6	2 ¼	5/8	9	3400175	119.60	-	-	-	-	-	-	-	-
18.0	.7087	9/16	6	2 ¼	5/8	9	3400180	124.30	17.552 - 18.339	170.85	140.00	129.65	124.65	119.45	115.05	109.10
18.5	.7283	5/8	6	2 ½	3/4	9 ½	3400185	124.30	18.340 - 19.126	170.85	140.00	129.65	124.65	119.45	115.05	109.10
19.0	.7480	5/8	6	2 ½	3/4	9 ½	3400190	124.30	-	-	-	-	-	-	-	-
19.5	.7677	5/8	6	2 ½	3/4	9 ½	3400195	127.75	19.127 - 19.914	174.25	143.50	133.05	127.90	122.85	118.45	112.55
20.0	.7874	5/8	6	2 ½	3/4	9 ½	3400200	127.75	19.915 - 20.726	174.25	143.50	133.05	127.90	122.85	118.45	112.55
20.5	.8071	5/8	6	2 ½	3/4	9 ½	3400205	127.75	-	-	-	-	-	-	-	-
21.0	.8268	5/8	6	2 ½	3/4	9 ½	3400210	132.05	20.727 - 21.514	178.65	147.55	137.35	132.20	127.10	122.85	116.90
21.5	.8465	5/8	6	2 ½	3/4	9 ½	3400215	132.05	-	-	-	-	-	-	-	-
22.0	.8661	3/4	6	2 5/8	3/4	10	3400220	132.05	21.515 - 22.301	178.65	147.55	137.35	132.20	127.10	122.85	116.90
22.5	.8858	3/4	6	2 5/8	3/4	10	3400225	156.10	22.302 - 23.089	204.40	172.30	161.55	156.35	150.95	146.50	140.30
23.0	.9055	3/4	6	2 5/8	3/4	10	3400230	156.10	-	-	-	-	-	-	-	-
23.5	.9252	3/4	8	2 5/8	3/4	10	3400235	156.10	23.090 - 23.901	204.40	172.30	161.55	156.35	150.95	146.50	140.30
24.0	.9449	3/4	8	2 5/8	3/4	10	3400240	162.75	23.902 - 24.689	211.00	178.80	168.05	162.90	157.55	153.10	146.90
24.5	.9646	3/4	8	2 5/8	3/4	10	3400245	162.75	-	-	-	-	-	-	-	-
25.0	.9843	7/8	8	2 ¾	3/4	10 ½	3400250	162.75	24.690 - 25.476	211.00	178.80	168.05	162.90	157.55	153.10	146.90
25.5	1.0039	7/8	8	2 ¾	3/4	10 ½	3400255	166.45	25.477 - 27.076	212.95	182.10	171.85	166.75	161.70	157.45	151.35
26.0	1.0236	7/8	8	2 ¾	3/4	10 ½	3400260	166.45	-	-	-	-	-	-	-	-
27.0	1.0630	7/8	8	2 ¾	3/4	10 ½	3400270	166.45	-	-	-	-	-	-	-	-
28.0	1.1024	7/8	8	2 7/8	7/8	11	3400280	178.50	27.077 - 28.651	224.70	194.00	183.65	178.65	173.50	169.20	163.20
29.0	1.1417	1	8	2 7/8	7/8	11	3400290	186.45	28.652 - 30.239	232.70	202.15	191.55	186.65	181.45	177.20	171.30
30.0	1.1811	1	8	2 7/8	7/8	11	3400300	186.45	-	-	-	-	-	-	-	-
31.0	1.2205	1	8	3	7/8	11 ½	3400310	195.95	30.240 - 31.826	242.30	211.55	201.25	196.25	191.10	186.80	181.00
32.0	1.2598	1	8	3	7/8	11 ½	3400320	204.95	31.827 - 33.414	251.45	220.75	210.30	205.40	200.20	195.80	189.85
33.0	1.2992	1	8	3	7/8	11 ½	3400330	204.95	-	-	-	-	-	-	-	-
34.0	1.3386	1	8	3 ¼	7/8	12	3400340	216.45	33.415 - 35.001	262.65	232.00	221.60	216.65	211.45	207.15	201.25
35.0	1.3780	1	8	3 ¼	7/8	12	3400350	216.45	-	-	-	-	-	-	-	-
36.0	1.4173	1 ¼	8	3 ¼	7/8	12	3400360	238.80	35.002 - 36.589	285.15	254.40	244.10	238.95	233.90	229.50	223.70
37.0	1.4567	1 ¼	8	3 ½	7/8	12 ½	3400370	251.15	36.590 - 38.176	297.65	266.85	256.50	251.50	246.40	242.05	236.15

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CARBIDE TIPPED DECIMAL SIZE CHUCKING REAMERS

TYPE 3400 - STRAIGHT SHANK - STRAIGHT FLUTES
STANDARD DECIMAL DIAMETER REAMERS (.0005" INCREMENTS)
THIS PAGE .1560" THRU .3055"

For fractional, wire, letter sizes and dimensions, see pages 62 & 63.

DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH
.1560	34001560	\$84.80	.1860	34001860	\$79.00	.2160	34002160	\$79.00	.2460	34002460	\$79.00	.2760	34002760	\$80.20
.1565	34001565	84.80	.1865	347818	75.75	.2165	3400055	79.00	.2465	34002465	79.00	.2765	34002765	80.20
.1570	34001570	84.80	.1870	34001870	79.00	.2170	34002170	79.00	.2470	34002470	79.00	.2770	34002770	80.20
.1575	3400040	84.80	.1875	340006	60.20	.2175	34002175	79.00	.2475	34002475	79.00	.2775	34002775	80.20
.1580	34001580	84.80	.1880	34001880	79.00	.2180	34002180	79.00	.2480	3400063	79.00	.2780	34002780	80.20
.1585	34001585	84.80	.1885	347819	75.75	.2185	34002185	79.00	.2485	34002485	79.00	.2785	34002785	80.20
.1590	34001590	84.80	.1890	3400048	79.00	.2190	34002190	79.00	.2490	347824	75.75	.2790	34002790	80.20
.1595	34001595	84.80	.1895	34001895	79.00	.2195	34002195	79.00	.2495	34002495	79.00	.2795	3400071	80.20
.1600	34001600	84.80	.1900	34001900	79.00	.2200	34002200	79.00	.2500	340008	60.20	.2800	34002800	80.20
.1605	34001605	84.80	.1905	34001905	79.00	.2205	3400056	79.00	.2505	34002505	79.00	.2805	34002805	80.20
.1610	34001610	84.80	.1910	34001910	79.00	.2210	34002210	79.00	.2510	347825	75.75	.2810	34002810	80.20
.1615	34001615	84.80	.1915	34001915	79.00	.2215	34002215	82.65	.2515	34002515	79.00	.2815	34002815	80.20
.1620	34001620	84.80	.1920	34001920	79.00	.2220	34002220	82.65	.2520	3400064	79.00	.2820	34002820	80.20
.1625	34001625	84.80	.1925	34001925	79.00	.2225	34002225	82.65	.2525	34002525	79.00	.2825	34002825	80.20
.1630	34001630	84.80	.1930	34001930	79.00	.2230	34002230	82.65	.2530	34002530	79.00	.2830	34002830	80.20
.1635	34001635	84.80	.1935	34001935	79.00	.2235	34002235	82.65	.2535	34002535	80.20	.2835	3400072	80.20
.1640	34001640	84.80	.1940	34001940	79.00	.2240	34002240	82.65	.2540	34002540	80.20	.2840	34002840	80.20
.1645	34001645	84.80	.1945	34001945	79.00	.2245	34002245	82.65	.2545	34002545	80.20	.2845	34002845	80.20
.1650	34001650	84.80	.1950	34001950	79.00	.2250	34002250	82.65	.2550	34002550	80.20	.2850	34002850	80.20
.1655	34001655	84.80	.1955	34001955	79.00	.2255	34002255	82.65	.2555	34002555	80.20	.2855	34002855	80.20
.1660	34001660	84.80	.1960	34001960	79.00	.2260	34002260	82.65	.2560	34002560	80.20	.2860	34002860	80.20
.1665	34001665	84.80	.1965	34001965	79.00	.2265	34002265	82.65	.2565	34002565	80.20	.2865	34002865	80.20
.1670	34001670	84.80	.1970	34001970	79.00	.2270	34002270	82.65	.2570	34002570	80.20	.2870	34002870	80.20
.1675	34001675	84.80	.1975	34001975	79.00	.2275	34002275	82.65	.2575	34002575	80.20	.2875	34002875	80.20
.1680	34001680	84.80	.1980	34001980	79.00	.2280	34002280	82.65	.2580	34002580	80.20	.2880	34002880	80.20
.1685	34001685	84.80	.1985	34001985	79.00	.2285	34002285	82.65	.2585	34002585	80.20	.2885	34002885	80.20
.1690	34001690	84.80	.1990	34001990	79.00	.2290	34002290	82.65	.2590	34002590	80.20	.2890	34002890	80.20
.1695	34001695	84.80	.1995	34001995	79.00	.2295	34002295	82.65	.2595	34002595	80.20	.2895	34002895	80.20
.1700	34001700	84.80	.2000	34002000	79.00	.2300	34002300	82.65	.2600	34002600	80.20	.2900	34002900	80.20
.1705	34001705	84.80	.2005	34002005	79.00	.2305	34002305	82.65	.2605	34002605	80.20	.2905	34002905	80.20
.1710	34001710	84.80	.2010	34002010	79.00	.2310	34002310	82.65	.2610	34002610	80.20	.2910	34002910	80.20
.1715	34001715	84.80	.2015	34002015	79.00	.2315	34002315	82.65	.2615	34002615	80.20	.2915	34002915	80.20
.1720	34001720	84.80	.2020	34002020	79.00	.2320	34002320	82.65	.2620	34002620	80.20	.2920	34002920	80.20
.1725	34001725	84.80	.2025	34002025	79.00	.2325	34002325	82.65	.2625	34002625	80.20	.2925	34002925	80.20
.1730	34001730	84.80	.2030	34002030	79.00	.2330	34002330	82.65	.2630	34002630	80.20	.2930	34002930	80.20
.1735	34001735	84.80	.2035	34002035	79.00	.2335	34002335	82.65	.2635	34002635	80.20	.2935	34002935	80.20
.1740	34001740	84.80	.2040	34002040	79.00	.2340	34002340	82.65	.2640	34002640	80.20	.2940	34002940	80.20
.1745	34001745	84.80	.2045	34002045	79.00	.2345	34002345	82.65	.2645	34002645	80.20	.2945	34002945	80.20
.1750	34001750	84.80	.2050	34002050	79.00	.2350	34002350	82.65	.2650	34002650	80.20	.2950	34002950	80.20
.1755	34001755	84.80	.2055	34002055	79.00	.2355	34002355	82.65	.2655	34002655	80.20	.2955	34002955	80.20
.1760	34001760	84.80	.2060	34002060	79.00	.2360	34002360	82.65	.2660	34002660	80.20	.2960	34002960	80.20
.1765	34001765	84.80	.2065	34002065	79.00	.2365	34002365	82.65	.2665	34002665	80.20	.2965	34002965	80.20
.1770	34001770	79.00	.2070	34002070	79.00	.2370	34002370	82.65	.2670	34002670	80.20	.2970	34002970	80.20
.1775	34001775	79.00	.2075	34002075	79.00	.2375	34002375	82.65	.2675	34002675	80.20	.2975	34002975	80.20
.1780	34001780	79.00	.2080	34002080	79.00	.2380	34002380	82.65	.2680	34002680	80.20	.2980	34002980	80.20
.1785	34001785	79.00	.2085	34002085	79.00	.2385	34002385	79.00	.2685	34002685	80.20	.2985	34002985	80.20
.1790	34001790	79.00	.2090	34002090	79.00	.2390	34002390	79.00	.2690	34002690	80.20	.2990	34002990	80.20
.1795	34001795	79.00	.2095	34002095	79.00	.2395	34002395	79.00	.2695	34002695	80.20	.2995	34002995	80.20
.1800	34001800	79.00	.2100	34002100	79.00	.2400	34002400	79.00	.2700	34002700	80.20	.3000	34003000	80.20
.1805	34001805	79.00	.2105	34002105	79.00	.2405	34002405	79.00	.2705	34002705	80.20	.3005	34003005	80.20
.1810	34001810	79.00	.2110	34002110	79.00	.2410	34002410	79.00	.2710	34002710	80.20	.3010	34003010	80.20
.1815	34001815	79.00	.2115	34002115	79.00	.2415	34002415	79.00	.2715	34002715	80.20	.3015	34003015	80.20
.1820	34001820	79.00	.2120	34002120	79.00	.2420	34002420	79.00	.2720	34002720	80.20	.3020	34003020	80.20
.1825	34001825	79.00	.2125	34002125	79.00	.2425	34002425	79.00	.2725	34002725	80.20	.3025	34003025	80.20
.1830	34001830	79.00	.2130	34002130	79.00	.2430	34002430	79.00	.2730	34002730	80.20	.3030	34003030	80.20
.1835	34001835	79.00	.2135	34002135	79.00	.2435	34002435	79.00	.2735	34002735	80.20	.3035	34003035	80.20
.1840	34001840	79.00	.2140	34002140	79.00	.2440	34002440	79.00	.2740	34002740	80.20	.3040	34003040	80.20
.1845	34001845	79.00	.2145	34002145	79.00	.2445	34002445	79.00	.2745	34002745	80.20	.3045	34003045	80.20
.1850	3400047	79.00	.2150	34002150	79.00	.2450	34002450	79.00	.2750	34002750	80.20	.3050	34003050	80.20
.1855	34001855	79.00	.2155	34002155	79.00	.2455	34002455	79.00	.2755	34002755	80.20	.3055	34003055	80.20

CARBIDE TIPPED DECIMAL SIZE CHUCKING REAMERS

TYPE 3400 - STRAIGHT SHANK - STRAIGHT FLUTES
STANDARD DECIMAL DIAMETER REAMERS (.0005" INCREMENTS)
THIS PAGE .3060" THRU .4555"

For fractional, wire, letter sizes and dimensions, see pages 62 & 63.

DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH
.3060	34003060	\$80.20	.3360	34003360	\$82.25	.3660	34003660	\$82.25	.3960	34003960	\$85.45	.4260	34004260	\$89.80
.3065	34003065	80.20	.3365	34003365	82.25	.3665	34003665	82.25	.3965	34003965	85.45	.4265	34004265	89.80
.3070	34003070	80.20	.3370	34003370	82.25	.3670	34003670	82.25	.3970	34003970	85.45	.4270	34004270	89.80
.3075	34003075	80.20	.3375	34003375	82.25	.3675	34003675	82.25	.3975	34003975	85.45	.4275	34004275	89.80
.3080	34003080	80.20	.3380	34003380	82.25	.3680	34003680	82.25	.3980	34003980	85.45	.4280	34004280	89.80
.3085	34003085	80.20	.3385	34003385	82.25	.3685	34003685	82.25	.3985	34003985	85.45	.4285	34004285	89.80
.3090	34003090	80.20	.3390	34003390	82.25	.3690	34003690	82.25	.3990	34003990	85.45	.4290	34004290	89.80
.3095	34003095	80.20	.3395	34003395	82.25	.3695	34003695	82.25	.3995	34003995	85.45	.4295	34004295	89.80
.3100	34003100	80.20	.3400	34003400	82.25	.3700	34003700	82.25	.4000	34004000	85.45	.4300	34004300	89.80
.3105	34003105	80.20	.3405	34003405	82.25	.3705	34003705	82.25	.4005	34004005	85.45	.4305	34004305	89.80
.3110	34000079	80.20	.3410	34003410	82.25	.3710	34003710	82.25	.4010	34004010	85.45	.4310	34004310	89.80
.3115	347831	77.40	.3415	34003415	82.25	.3715	34003715	82.25	.4015	34004015	85.45	.4315	34004315	89.80
.3120	34003120	80.20	.3420	34003420	82.25	.3720	34003720	82.25	.4020	34004020	85.45	.4320	34004320	89.80
.3125	340010	61.55	.3425	34000087	82.25	.3725	34003725	82.25	.4025	34004025	85.45	.4325	34004325	89.80
.3130	34003130	80.20	.3430	34003430	82.25	.3730	34003730	82.25	.4030	34004030	85.45	.4330	34004330	89.80
.3135	347832	77.40	.3435	34003435	82.25	.3735	34003735	82.25	.4035	34004035	85.45	.4335	34004335	89.80
.3140	34003140	80.20	.3440	34003440	82.25	.3740	347837	80.30	.4040	34004040	85.45	.4340	34004340	89.80
.3145	34003145	80.20	.3445	34003445	82.25	.3745	34003745	82.25	.4045	34004045	85.45	.4345	34004345	89.80
.3150	34000080	80.20	.3450	34003450	82.25	.3750	340012	63.65	.4050	34004050	85.45	.4350	34004350	89.80
.3155	34003155	82.25	.3455	34003455	82.25	.3755	34003755	82.25	.4055	3400103	85.45	.4355	34004355	89.80
.3160	34003160	82.25	.3460	34003460	82.25	.3760	347838	80.30	.4060	34004060	85.45	.4360	34004360	89.80
.3165	34003165	82.25	.3465	34000088	82.25	.3765	34003765	82.25	.4065	34004065	85.45	.4365	347843	89.75
.3170	34003170	82.25	.3470	34003470	82.25	.3770	34003770	82.25	.4070	34004070	85.45	.4370	3400111	89.80
.3175	34003175	82.25	.3475	34003475	82.25	.3775	34003775	82.25	.4075	34004075	85.45	.4375	340014	71.35
.3180	34003180	82.25	.3480	34003480	82.25	.3780	34000096	82.25	.4080	34004080	85.45	.4380	34004380	89.80
.3185	34003185	82.25	.3485	34003485	82.25	.3785	34003785	85.45	.4085	34004085	85.45	.4385	347844	89.75
.3190	34003190	82.25	.3490	34003490	82.25	.3790	34003790	85.45	.4090	34004090	85.45	.4390	34004390	89.80
.3195	34003195	82.25	.3495	34003495	82.25	.3795	34003795	85.45	.4095	34004095	89.80	.4395	34004395	89.80
.3200	34003200	82.25	.3500	34003500	82.25	.3800	34003800	85.45	.4100	34004100	89.80	.4400	34004400	89.80
.3205	34003205	82.25	.3505	34003505	82.25	.3805	34003805	85.45	.4105	34004105	89.80	.4405	34004405	89.80
.3210	34003210	82.25	.3510	34003510	82.25	.3810	34003810	85.45	.4110	34004110	89.80	.4410	34004410	89.80
.3215	34003215	82.25	.3515	34003515	82.25	.3815	34003815	85.45	.4115	34004115	89.80	.4415	34004415	90.95
.3220	34003220	82.25	.3520	34003520	82.25	.3820	34003820	85.45	.4120	34004120	89.80	.4420	34004420	90.95
.3225	34003225	82.25	.3525	34003525	82.25	.3825	34003825	85.45	.4125	34004125	89.80	.4425	34004425	90.95
.3230	34003230	82.25	.3530	34003530	82.25	.3830	34003830	85.45	.4130	34004130	89.80	.4430	34004430	90.95
.3235	34003235	82.25	.3535	34003535	82.25	.3835	34003835	85.45	.4135	34004135	89.80	.4435	34004435	90.95
.3240	34003240	82.25	.3540	34003540	82.25	.3840	34003840	85.45	.4140	34004140	89.80	.4440	34004440	90.95
.3245	34003245	82.25	.3545	34003545	82.25	.3845	34003845	85.45	.4145	34004145	89.80	.4445	34004445	90.95
.3250	34003250	82.25	.3550	34003550	82.25	.3850	34003850	85.45	.4150	34004150	89.80	.4450	34004450	90.95
.3255	34003255	82.25	.3555	34003555	82.25	.3855	34003855	85.45	.4155	34004155	89.80	.4455	34004455	90.95
.3260	34003260	82.25	.3560	34003560	82.25	.3860	34003860	85.45	.4160	34004160	89.80	.4460	34004460	90.95
.3265	34003265	82.25	.3565	34003565	82.25	.3865	34003865	85.45	.4165	34004165	89.80	.4465	34004465	90.95
.3270	34003270	82.25	.3570	34003570	82.25	.3870	34003870	85.45	.4170	34004170	89.80	.4470	34004470	90.95
.3275	34003275	82.25	.3575	34003575	82.25	.3875	34003875	85.45	.4175	34004175	89.80	.4475	34004475	90.95
.3280	34003280	82.25	.3580	34003580	82.25	.3880	34003880	85.45	.4180	34004180	89.80	.4480	34004480	90.95
.3285	34003285	82.25	.3585	34003585	82.25	.3885	34003885	85.45	.4185	34004185	89.80	.4485	34004485	90.95
.3290	34003290	82.25	.3590	34003590	82.25	.3890	34003890	85.45	.4190	34004190	89.80	.4490	34004490	90.95
.3295	34003295	82.25	.3595	34003595	82.25	.3895	34003895	85.45	.4195	34004195	89.80	.4495	34004495	90.95
.3300	34003300	82.25	.3600	34003600	82.25	.3900	34003900	85.45	.4200	34004200	89.80	.4500	34004500	90.95
.3305	34003305	82.25	.3605	34003605	82.25	.3905	34003905	85.45	.4205	34004205	89.80	.4505	34004505	90.95
.3310	34003310	82.25	.3610	34003610	82.25	.3910	34003910	85.45	.4210	34004210	89.80	.4510	34004510	90.95
.3315	34003315	82.25	.3615	34003615	82.25	.3915	34003915	85.45	.4215	34004215	89.80	.4515	34004515	90.95
.3320	34003320	82.25	.3620	34003620	82.25	.3920	34003920	85.45	.4220	34004220	89.80	.4520	34004520	90.95
.3325	34003325	82.25	.3625	34003625	82.25	.3925	34003925	85.45	.4225	34004225	89.80	.4525	34004525	90.95
.3330	34003330	82.25	.3630	34003630	82.25	.3930	34003930	85.45	.4230	34004230	89.80	.4530	34004530	90.95
.3335	34003335	82.25	.3635	34003635	82.25	.3935	34003935	85.45	.4235	34004235	89.80	.4535	34004535	90.95
.3340	34003340	82.25	.3640	34003640	82.25	.3940	34003940	85.45	.4240	34004240	89.80	.4540	34004540	90.95
.3345	34003345	82.25	.3645	34003645	82.25	.3945	34003945	85.45	.4245	34004245	89.80	.4545	34004545	90.95
.3350	34003350	82.25	.3650	34003650	82.25	.3950	34003950	85.45	.4250	34004250	89.80	.4550	34004550	90.95
.3355	34003355	82.25	.3655	34003655	82.25	.3955	34003955	85.45	.4255	34004255	89.80	.4555	34004555	90.95

LEXINGTON CUTTER, INC. • sales@lexingtoncutter.com • Phone 800-882-2627 • Fax 800-882-3637

CARBIDE TIPPED DECIMAL SIZE CHUCKING REAMERS

TYPE 3400 - STRAIGHT SHANK - STRAIGHT FLUTES
STANDARD DECIMAL DIAMETER REAMERS (.0005" INCREMENTS)
THIS PAGE .4560" THRU .6055"

For fractional, wire and letter sizes, see pages 62 & 63.

DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH
.4560	34004560	\$90.95	.4860	34004860	\$106.50	.5160	34005160	\$114.25	.5460	34005460	\$114.25	.5760	34005760	\$117.95
.4565	34004565	90.95	.4865	34004865	106.50	.5165	34005165	114.25	.5465	34005465	114.25	.5765	34005765	117.95
.4570	34004570	90.95	.4870	34004870	106.50	.5170	34005170	114.25	.5470	34005470	114.25	.5770	34005770	117.95
.4575	34004575	90.95	.4875	34004875	106.50	.5175	34005175	114.25	.5475	34005475	114.25	.5775	34005775	117.95
.4580	34004580	90.95	.4880	34004880	106.50	.5180	34005180	114.25	.5480	34005480	114.25	.5780	34005780	117.95
.4585	34004585	90.95	.4885	34004885	106.50	.5185	34005185	114.25	.5485	34005485	114.25	.5785	34005785	117.95
.4590	34004590	90.95	.4890	34004890	106.50	.5190	34005190	114.25	.5490	34005490	114.25	.5790	34005790	117.95
.4595	34004595	90.95	.4895	34004895	106.50	.5195	34005195	114.25	.5495	34005495	114.25	.5795	34005795	117.95
.4600	34004600	90.95	.4900	34004900	106.50	.5200	34005200	114.25	.5500	34005500	114.25	.5800	34005800	117.95
.4605	34004605	90.95	.4905	34004905	106.50	.5205	34005205	114.25	.5505	34005505	114.25	.5805	34005805	117.95
.4610	34004610	90.95	.4910	34004910	106.50	.5210	34005210	114.25	.5510	34005510	114.25	.5810	34005810	117.95
.4615	34004615	90.95	.4915	34004915	106.50	.5215	34005215	114.25	.5515	34005515	114.25	.5815	34005815	117.95
.4620	34004620	90.95	.4920	34004920	106.50	.5220	34005220	114.25	.5520	34005520	114.25	.5820	34005820	117.95
.4625	34004625	90.95	.4925	34004925	106.50	.5225	34005225	114.25	.5525	34005525	114.25	.5825	34005825	117.95
.4630	34004630	90.95	.4930	34004930	106.50	.5230	34005230	114.25	.5530	34005530	114.25	.5830	34005830	117.95
.4635	34004635	90.95	.4935	34004935	106.50	.5235	34005235	114.25	.5535	34005535	114.25	.5835	34005835	117.95
.4640	34004640	90.95	.4940	34004940	106.50	.5240	34005240	114.25	.5540	34005540	114.25	.5840	34005840	117.95
.4645	34004645	90.95	.4945	34004945	106.50	.5245	34005245	114.25	.5545	34005545	114.25	.5845	34005845	117.95
.4650	34004650	90.95	.4950	34004950	106.50	.5250	34005250	114.25	.5550	34005550	114.25	.5850	34005850	117.95
.4655	34004655	90.95	.4955	34004955	106.50	.5255	34005255	114.25	.5555	34005555	114.25	.5855	34005855	117.95
.4660	34004660	90.95	.4960	34004960	106.50	.5260	34005260	114.25	.5560	34005560	114.25	.5860	34005860	117.95
.4665	34004665	90.95	.4965	34004965	106.50	.5265	34005265	114.25	.5565	34005565	114.25	.5865	34005865	117.95
.4670	34004670	90.95	.4970	34004970	106.50	.5270	34005270	114.25	.5570	34005570	114.25	.5870	34005870	117.95
.4675	34004675	90.95	.4975	34004975	106.50	.5275	34005275	114.25	.5575	34005575	114.25	.5875	34005875	117.95
.4680	34004680	90.95	.4980	34004980	106.50	.5280	34005280	114.25	.5580	34005580	114.25	.5880	34005880	117.95
.4685	3400119	90.95	.4985	34004985	106.50	.5285	34005285	114.25	.5585	34005585	114.25	.5885	34005885	117.95
.4690	34004690	90.95	.4990	347849	98.35	.5290	34005290	114.25	.5590	34005590	114.25	.5890	34005890	117.95
.4695	34004695	90.95	.4995	34004995	106.50	.5295	34005295	114.25	.5595	34005595	114.25	.5895	34005895	117.95
.4700	34004700	90.95	.5000	340016	86.05	.5300	34005300	114.25	.5600	34005600	114.25	.5900	34005900	117.95
.4705	34004705	90.95	.5005	34005005	106.50	.5305	34005305	114.25	.5605	34005605	114.25	.5905	34005905	117.95
.4710	34004710	90.95	.5010	347850	98.35	.5310	34005310	114.25	.5610	34005610	114.25	.5910	34005910	117.95
.4715	34004715	90.95	.5015	34005015	106.50	.5315	3400135	114.25	.5615	34005615	114.25	.5915	34005915	117.95
.4720	34004720	90.95	.5020	34005020	106.50	.5320	34005320	114.25	.5620	34005620	114.25	.5920	34005920	117.95
.4725	34004725	106.50	.5025	34005025	106.50	.5325	34005325	114.25	.5625	340018	93.60	.5925	34005925	117.95
.4730	34004730	106.50	.5030	34005030	106.50	.5330	34005330	114.25	.5630	3400143	114.25	.5930	34005930	117.95
.4735	34004735	106.50	.5035	34005035	114.25	.5335	34005335	114.25	.5635	34005635	114.25	.5935	34005935	117.95
.4740	34004740	106.50	.5040	34005040	114.25	.5340	34005340	114.25	.5640	34005640	114.25	.5940	34005940	117.95
.4745	34004745	106.50	.5045	34005045	114.25	.5345	34005345	114.25	.5645	34005645	114.25	.5945	3400151	117.95
.4750	34004750	106.50	.5050	34005050	114.25	.5350	34005350	114.25	.5650	34005650	114.25	.5950	34005950	117.95
.4755	34004755	106.50	.5055	34005055	114.25	.5355	34005355	114.25	.5655	34005655	114.25	.5955	34005955	117.95
.4760	34004760	106.50	.5060	34005060	114.25	.5360	34005360	114.25	.5660	34005660	114.25	.5960	34005960	117.95
.4765	34004765	106.50	.5065	34005065	114.25	.5365	34005365	114.25	.5665	34005665	117.95	.5965	34005965	117.95
.4770	34004770	106.50	.5070	34005070	114.25	.5370	34005370	114.25	.5670	34005670	117.95	.5970	34005970	117.95
.4775	34004775	106.50	.5075	34005075	114.25	.5375	34005375	114.25	.5675	34005675	117.95	.5975	34005975	117.95
.4780	34004780	106.50	.5080	34005080	114.25	.5380	34005380	114.25	.5680	34005680	117.95	.5980	34005980	117.95
.4785	34004785	106.50	.5085	34005085	114.25	.5385	34005385	114.25	.5685	34005685	117.95	.5985	34005985	117.95
.4790	34004790	106.50	.5090	34005090	114.25	.5390	34005390	114.25	.5690	34005690	117.95	.5990	34005990	117.95
.4795	34004795	106.50	.5095	34005095	114.25	.5395	34005395	114.25	.5695	34005695	117.95	.5995	34005995	117.95
.4800	34004800	106.50	.5100	34005100	114.25	.5400	34005400	114.25	.5700	34005700	117.95	.6000	34006000	117.95
.4805	34004805	106.50	.5105	34005105	114.25	.5405	34005405	114.25	.5705	34005705	117.95	.6005	34006005	117.95
.4810	34004810	106.50	.5110	34005110	114.25	.5410	34005410	114.25	.5710	34005710	117.95	.6010	34006010	117.95
.4815	34004815	106.50	.5115	34005115	114.25	.5415	34005415	114.25	.5715	34005715	117.95	.6015	34006015	117.95
.4820	34004820	106.50	.5120	34005120	114.25	.5420	34005420	114.25	.5720	34005720	117.95	.6020	34006020	117.95
.4825	34004825	106.50	.5125	34005125	114.25	.5425	34005425	114.25	.5725	34005725	117.95	.6025	34006025	117.95
.4830	34004830	106.50	.5130	34005130	114.25	.5430	34005430	114.25	.5730	34005730	117.95	.6030	34006030	117.95
.4835	34004835	106.50	.5135	34005135	114.25	.5435	34005435	114.25	.5735	34005735	117.95	.6035	34006035	117.95
.4840	34004840	106.50	.5140	34005140	114.25	.5440	34005440	114.25	.5740	34005740	117.95	.6040	34006040	117.95
.4845	34004845	106.50	.5145	34005145	114.25	.5445	34005445	114.25	.5745	34005745	117.95	.6045	34006045	117.95
.4850	34004850	106.50	.5150	34005150	114.25	.5450	34005450	114.25	.5750	34005750	117.95	.6050	34006050	117.95
.4855	34004855	106.50	.5155	34005155	114.25	.5455	34005455	114.25	.5755	34005755	117.95	.6055	34006055	117.95

CARBIDE TIPPED DECIMAL SIZE CHUCKING REAMERS

TYPE 3400 - STRAIGHT SHANK - STRAIGHT FLUTES
STANDARD DECIMAL DIAMETER REAMERS (.0005" INCREMENTS)
THIS PAGE .6060" THRU .7555"

For fractional, wire and letter sizes, see pages 62 & 63.

DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH
.6060	34006060	\$117.95	.6360	34006360	\$119.60	.6660	34006660	\$119.60	.6960	34006960	\$124.30	.7260	34007260	\$124.30
.6065	34006065	117.95	.6365	34006365	119.60	.6665	34006665	119.60	.6965	34006965	124.30	.7265	34007265	124.30
.6070	34006070	117.95	.6370	34006370	119.60	.6670	34006670	119.60	.6970	34006970	124.30	.7270	34007270	124.30
.6075	34006075	117.95	.6375	34006375	119.60	.6675	34006675	119.60	.6975	34006975	124.30	.7275	34007275	124.30
.6080	34006080	117.95	.6380	34006380	119.60	.6680	34006680	119.60	.6980	34006980	124.30	.7280	34007280	124.30
.6085	34006085	117.95	.6385	34006385	119.60	.6685	34006685	119.60	.6985	34006985	124.30	.7285	34007285	124.30
.6090	34006090	117.95	.6390	34006390	119.60	.6690	34006690	119.60	.6990	34006990	124.30	.7290	34007290	124.30
.6095	34006095	117.95	.6395	34006395	119.60	.6695	34006695	119.60	.6995	34006995	124.30	.7295	34007295	124.30
.6100	34006100	117.95	.6400	34006400	119.60	.6700	34006700	119.60	.7000	34007000	124.30	.7300	34007300	124.30
.6105	34006105	117.95	.6405	34006405	119.60	.6705	34006705	119.60	.7005	34007005	124.30	.7305	34007305	124.30
.6110	34006110	117.95	.6410	34006410	119.60	.6710	34006710	119.60	.7010	34007010	124.30	.7310	34007310	124.30
.6115	34006115	117.95	.6415	34006415	119.60	.6715	34006715	119.60	.7015	34007015	124.30	.7315	34007315	124.30
.6120	34006120	117.95	.6420	34006420	119.60	.6720	34006720	119.60	.7020	34007020	124.30	.7320	34007320	124.30
.6125	34006125	117.95	.6425	34006425	119.60	.6725	34006725	119.60	.7025	34007025	124.30	.7325	34007325	124.30
.6130	34006130	117.95	.6430	34006430	119.60	.6730	34006730	119.60	.7030	34007030	124.30	.7330	34007330	124.30
.6135	34006135	117.95	.6435	34006435	119.60	.6735	34006735	119.60	.7035	34007035	124.30	.7335	34007335	124.30
.6140	34006140	117.95	.6440	34006440	119.60	.6740	34006740	119.60	.7040	34007040	124.30	.7340	34007340	124.30
.6145	34006145	117.95	.6445	34006445	119.60	.6745	34006745	119.60	.7045	34007045	124.30	.7345	34007345	124.30
.6150	34006150	117.95	.6450	34006450	119.60	.6750	34006750	119.60	.7050	34007050	124.30	.7350	34007350	124.30
.6155	34006155	117.95	.6455	34006455	119.60	.6755	34006755	119.60	.7055	34007055	124.30	.7355	34007355	124.30
.6160	34006160	117.95	.6460	34006460	119.60	.6760	34006760	119.60	.7060	34007060	124.30	.7360	34007360	124.30
.6165	34006165	117.95	.6465	34006465	119.60	.6765	34006765	119.60	.7065	34007065	124.30	.7365	34007365	124.30
.6170	34006170	117.95	.6470	34006470	119.60	.6770	34006770	119.60	.7070	34007070	124.30	.7370	34007370	124.30
.6175	34006175	117.95	.6475	34006475	119.60	.6775	34006775	119.60	.7075	34007075	124.30	.7375	34007375	124.30
.6180	34006180	117.95	.6480	34006480	119.60	.6780	34006780	119.60	.7080	34007080	124.30	.7380	34007380	124.30
.6185	34006185	117.95	.6485	34006485	119.60	.6785	34006785	119.60	.7085	34007085	124.30	.7385	34007385	124.30
.6190	34006190	117.95	.6490	34006490	119.60	.6790	34006790	119.60	.7090	34007090	124.30	.7390	34007390	124.30
.6195	34006195	117.95	.6495	34006495	119.60	.6795	34006795	119.60	.7095	34007095	124.30	.7395	34007395	124.30
.6200	34006200	117.95	.6500	34006500	119.60	.6800	34006800	119.60	.7100	34007100	124.30	.7400	34007400	124.30
.6205	34006205	117.95	.6505	34006505	119.60	.6805	34006805	119.60	.7105	34007105	124.30	.7405	34007405	124.30
.6210	34006210	117.95	.6510	34006510	119.60	.6810	34006810	119.60	.7110	34007110	124.30	.7410	34007410	124.30
.6215	34006215	117.95	.6515	34006515	119.60	.6815	34006815	119.60	.7115	34007115	124.30	.7415	34007415	124.30
.6220	3400158	117.95	.6520	34006520	119.60	.6820	34006820	119.60	.7120	34007120	124.30	.7420	34007420	124.30
.6225	34006225	117.95	.6525	34006525	119.60	.6825	34006825	119.60	.7125	34007125	124.30	.7425	34007425	124.30
.6230	34006230	117.95	.6530	34006530	119.60	.6830	34006830	119.60	.7130	34007130	124.30	.7430	34007430	124.30
.6235	34006235	117.95	.6535	3400166	119.60	.6835	34006835	119.60	.7135	34007135	124.30	.7435	34007435	124.30
.6240	347862	117.95	.6540	34006540	119.60	.6840	34006840	119.60	.7140	34007140	124.30	.7440	34007440	124.30
.6245	34006245	117.95	.6545	34006545	119.60	.6845	34006845	119.60	.7145	34007145	124.30	.7445	34007445	124.30
.6250	340020	97.45	.6550	34006550	119.60	.6850	3400174	119.60	.7150	34007150	124.30	.7450	34007450	124.30
.6255	34006255	117.95	.6555	34006555	119.60	.6855	34006855	119.60	.7155	34007155	124.30	.7455	34007455	124.30
.6260	347863	117.95	.6560	34006560	119.60	.6860	34006860	119.60	.7160	34007160	124.30	.7460	34007460	124.30
.6265	34006265	117.95	.6565	34006565	119.60	.6865	34006865	119.60	.7165	3400182	124.30	.7465	34007465	124.30
.6270	34006270	117.95	.6570	34006570	119.60	.6870	34006870	119.60	.7170	34007170	124.30	.7470	34007470	124.30
.6275	34006275	117.95	.6575	3400167	119.60	.6875	340022	99.20	.7175	34007175	124.30	.7475	34007475	124.30
.6280	34006280	117.95	.6580	34006580	119.60	.6880	34006880	119.60	.7180	34007180	124.30	.7480	3400190	124.30
.6285	34006285	119.60	.6585	34006585	119.60	.6885	34006885	119.60	.7185	34007185	124.30	.7485	34007485	124.30
.6290	34006290	119.60	.6590	34006590	119.60	.6890	3400175	119.60	.7190	34007190	124.30	.7490	347874	124.30
.6295	34006295	119.60	.6595	34006595	119.60	.6895	34006895	119.60	.7195	34007195	124.30	.7495	34007495	124.30
.6300	34006300	119.60	.6600	34006600	119.60	.6900	34006900	119.60	.7200	34007200	124.30	.7500	340024	103.80
.6305	34006305	119.60	.6605	34006605	119.60	.6905	34006905	119.60	.7205	3400183	124.30	.7505	34007505	124.30
.6310	34006310	119.60	.6610	34006610	119.60	.6910	34006910	119.60	.7210	34007210	124.30	.7510	347875	124.30
.6315	34006315	119.60	.6615	34006615	119.60	.6915	34006915	124.30	.7215	34007215	124.30	.7515	34007515	124.30
.6320	34006320	119.60	.6620	34006620	119.60	.6920	34006920	124.30	.7220	34007220	124.30	.7520	3400191	124.30
.6325	34006325	119.60	.6625	34006625	119.60	.6925	34006925	124.30	.7225	34007225	124.30	.7525	34007525	124.30
.6330	34006330	119.60	.6630	34006630	119.60	.6930	34006930	124.30	.7230	34007230	124.30	.7530	34007530	124.30
.6335	34006335	119.60	.6635	34006635	119.60	.6935	34006935	124.30	.7235	34007235	124.30	.7535	34007535	127.75
.6340	34006340	119.60	.6640	34006640	119.60	.6940	34006940	124.30	.7240	34007240	124.30	.7540	34007540	127.75
.6345	34006345	119.60	.6645	34006645	119.60	.6945	34006945	124.30	.7245	34007245	124.30	.7545	34007545	127.75
.6350	34006350	119.60	.6650	34006650	119.60	.6950	34006950	124.30	.7250	34007250	124.30	.7550	34007550	127.75
.6355	34006355	119.60	.6655	34006655	119.60	.6955	34006955	124.30	.7255	34007255	124.30	.7555	34007555	127.75

LEXINGTON CUTTER, INC. • sales@lexingtoncutter.com • Phone 800-882-2627 • Fax 800-882-3637

CARBIDE TIPPED SEMI-FINISHED REAMERS

Semi-finished reamers are furnished with a tool diameter above the largest diameter indicated in the size range column below.

Before semi-finished reamers can be used, the tool diameter must be finished ground and relieved. The reamer end must be faced and chamfered.

Semi-finished reamers are used by regrind shops or distributors and users with regrind facilities.

For detailed description of each specific type, see page indicated in table below.

Call for pricing on Types 3420 & 3467 semi-finished reamers.



SEMI-FINISHED TOOL DIAMETER RANGE	TYPE 3400 PAGE 62		TYPE 3402 PAGE 70		TYPE 3410 PAGE 82		TYPE 3430 PAGE 90	TYPE 3440 PAGE 90	BOTH TYPES PRICE	TYPE 3450 PAGE 72		TYPE 3465 PAGE 86	
	EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	EDP NO.	EDP NO.		EDP NO.	PRICE EACH	EDP NO.	PRICE EACH
.1770 - .2040	340006SF	\$51.25	-	-	341006SF	\$72.20	343006SF	344006SF	\$66.85	345006SF	\$61.30	-	-
.2041 - .2210	340007SF	51.25	-	-	341007SF	72.20	343007SF	344007SF	66.85	345007SF	61.30	-	-
.2211 - .2380	34002344SF	54.15	-	-	34102344SF	72.20	34302344SF	34402344SF	66.85	34502344SF	61.30	-	-
.2381 - .2530	340008SF	51.25	340208SF	\$59.10	341008SF	72.20	343008SF	344008SF	66.85	345008SF	61.30	-	-
.2531 - .2840	340009SF	52.25	340209SF	60.05	341009SF	72.35	343009SF	344009SF	66.85	345009SF	62.75	-	-
.2841 - .3150	340010SF	52.25	340210SF	60.05	341010SF	72.35	343010SF	344010SF	77.55	345010SF	62.75	346510SF	\$94.65
.3151 - .3470	340011SF	54.05	340211SF	62.20	341011SF	79.55	343011SF	344011SF	78.40	345011SF	64.85	346511SF	94.65
.3471 - .3780	340012SF	49.60	340212SF	57.25	341012SF	80.30	343012SF	344012SF	84.90	345012SF	64.85	346512SF	88.55
.3781 - .4090	340013SF	56.70	340213SF	65.25	341013SF	83.90	343013SF	344013SF	86.05	345013SF	68.05	346513SF	93.90
.4091 - .4410	340014SF	60.40	340214SF	69.55	341014SF	87.25	343014SF	344014SF	102.05	345014SF	73.70	346514SF	93.90
.4411 - .4720	340015SF	61.55	340215SF	71.50	341015SF	92.70	343015SF	344015SF	102.05	345015SF	79.55	346515SF	99.55
.4721 - .5030	340016SF	73.25	340216SF	84.15	341016SF	96.15	343016SF	344016SF	111.60	345016SF	85.35	346516SF	99.55
.5031 - .5340	340017SF	79.55	340217SF	90.95	341017SF	99.20	343017SF	344017SF	111.60	345017SF	87.45	346517SF	102.05
.5341 - .5660	340018SF	79.55	340218SF	90.95	341018SF	99.20	343018SF	344018SF	117.70	345018SF	87.45	346518SF	102.05
.5661 - .5970	340019SF	82.80	340219SF	95.10	341019SF	102.05	343019SF	344019SF	117.70	345019SF	91.15	346519SF	106.50
.5971 - .6280	340020SF	82.80	340220SF	95.10	341020SF	102.05	343020SF	344020SF	120.90	345020SF	91.15	346520SF	106.50
.6281 - .6590	340021SF	84.20	340221SF	96.90	341021SF	104.95	343021SF	344021SF	120.90	345021SF	92.70	346521SF	116.60
.6591 - .6910	340022SF	84.20	340222SF	96.90	341022SF	111.80	343022SF	344022SF	126.40	345022SF	92.70	346522SF	116.60
.6911 - .7220	340023SF	88.15	340223SF	101.40	341023SF	113.30	343023SF	344023SF	126.40	345023SF	96.90	346523SF	121.05
.7221 - .7530	340024SF	88.15	340224SF	101.40	341024SF	115.15	343024SF	344024SF	129.65	345024SF	96.90	346524SF	121.05
.7531 - .7840	340025SF	91.25	340225SF	104.40	341025SF	118.00	343025SF	344025SF	129.65	345025SF	100.15	346525SF	130.50
.7841 - .8160	340026SF	91.25	340226SF	104.40	341026SF	118.00	343026SF	344026SF	140.85	345026SF	100.15	346526SF	130.50
.8161 - .8470	340027SF	94.90	340227SF	109.00	341027SF	124.45	343027SF	344027SF	140.85	345027SF	104.25	346527SF	135.40
.8471 - .8780	340028SF	98.35	340228SF	113.10	341028SF	129.20	343028SF	344028SF	153.90	345028SF	108.25	346528SF	140.55
.8781 - .9090	340029SF	114.85	340229SF	132.70	341029SF	150.60	343029SF	344029SF	153.90	345029SF	126.05	346529SF	149.60
.9091 - .9410	340030SF	114.85	340230SF	132.70	341030SF	150.60	343030SF	344030SF	169.40	345030SF	126.05	346530SF	149.60
.9411 - .9720	340031SF	120.20	340231SF	138.05	341031SF	157.80	343031SF	344031SF	169.40	345031SF	132.05	346531SF	155.35
.9721 - 1.0030	340032SF	120.20	340232SF	138.05	341032SF	157.80	343032SF	344032SF	177.90	345032SF	132.05	346532SF	155.35
1.0031 - 1.0660	340034SF	124.15	340234SF	189.85	341034SF	169.35	343034SF	344034SF	177.90	345034SF	136.70	346534SF	170.40
1.0661 - 1.1280	340036SF	134.35	340236SF	202.25	341036SF	174.55	343036SF	344036SF	208.15	345036SF	147.80	346536SF	170.40
1.1281 - 1.1905	340038SF	141.05	340238SF	214.35	341038SF	183.35	343038SF	344038SF	216.95	345038SF	154.55	346538SF	185.80
1.1906 - 1.2530	340040SF	149.10	340240SF	238.05	341040SF	194.20	343040SF	344040SF	254.30	345040SF	180.55	346540SF	185.80
1.2531 - 1.3155	340042SF	156.85	340242SF	256.80	341042SF	214.70	343042SF	344042SF	254.30	345042SF	180.55	346542SF	206.15
1.3156 - 1.3780	340044SF	166.45	340244SF	267.00	341044SF	235.40	343044SF	344044SF	257.80	345044SF	183.10	346544SF	215.75
1.3781 - 1.4405	340046SF	185.65	340246SF	272.70	341046SF	249.35	343046SF	344046SF	300.60	345046SF	202.30	346546SF	254.75
1.4406 - 1.5030	340048SF	196.25	340248SF	286.15	341048SF	263.40	343048SF	344048SF	361.00	345048SF	243.00	346548SF	262.40

CARBIDE TIPPED CHUCKING REAMERS

TYPE 3402 - TAPER SHANK - STRAIGHT FLUTES

Carbide tips brazed to one piece hardened alloy steel bodies. Straight polished flutes.

Designed and manufactured for maximum tool life. Used for all general types of reaming including low carbon steels, cast iron, non-ferrous metals and non-metals.



For metric sizes, see page 71.

For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MORSE TAPER	NO. OF FLUTES	LENGTH			EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRAC.			FLT	CARB	OAL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.2500	1/4	1	4	1 1/2	1/2	6	340208	\$69.40	.2381 - .2530	\$125.50	\$97.45	\$88.05	\$83.60	\$78.95	\$75.05
.2812	9/32	1	4	1 1/2	1/2	6	340209	70.70	.2531 - .2840	126.95	98.75	89.45	84.80	80.15	76.15
.3125	5/16	1	4	1 1/2	1/2	6	340210	70.70	.2841 - .3150	126.95	98.75	89.45	84.80	80.15	76.15
.3438	11/32	1	4	1 1/2	5/8	6	340211	73.35	.3151 - .3470	129.60	101.40	91.85	87.40	82.70	79.00
.3750	3/8	1	4	1 3/4	5/8	7	340212	67.30	.3471 - .3780	118.85	93.05	84.30	80.30	75.85	72.35
.4062	13/32	1	4	1 3/4	5/8	7	340213	76.95	.3781 - .4090	133.15	104.95	95.50	91.15	86.25	82.50
.4375	7/16	1	4	1 3/4	5/8	7	340214	81.85	.4091 - .4410	138.05	109.90	100.45	96.00	91.25	87.30
.4688	15/32	1	4	1 3/4	5/8	7	340215	84.00	.4411 - .4720	140.30	112.10	102.65	98.20	93.35	89.60
.5000	1/2	1	6	2	5/8	8	340216	99.05	.4721 - .5030	160.90	129.80	119.50	114.70	109.25	105.15
.5312	17/32	1	6	2	5/8	8	340217	106.95	.5031 - .5340	168.80	137.65	127.30	122.55	117.10	112.80
.5625	9/16	1	6	2	5/8	8	340218	106.95	.5341 - .5660	168.80	137.65	127.30	122.55	117.10	112.80
.5938	19/32	1	6	2	5/8	8	340219	112.05	.5661 - .5970	173.95	142.90	132.55	127.60	122.15	118.15
.6250	5/8	2	6	2 1/4	5/8	9	340220	112.05	.5971 - .6280	173.95	142.90	132.55	127.60	122.15	118.15
.6562	21/32	2	6	2 1/4	5/8	9	340221	114.00	.6281 - .6590	175.85	144.95	134.55	129.65	124.30	120.05
.6875	11/16	2	6	2 1/4	5/8	9	340222	114.00	.6591 - .6910	175.85	144.95	134.55	129.65	124.30	120.05
.7188	23/32	2	6	2 1/4	5/8	9	340223	119.20	.6911 - .7220	181.15	150.00	139.65	134.85	129.60	125.25
.7500	3/4	2	6	2 1/2	3/4	9 1/2	340224	119.20	.7221 - .7530	181.15	150.00	139.65	134.85	129.60	125.25
.7812	25/32	2	6	2 1/2	3/4	9 1/2	340225	122.95	.7531 - .7840	184.75	153.70	143.50	138.55	133.15	128.95
.8125	13/16	2	6	2 1/2	3/4	9 1/2	340226	122.95	.7841 - .8160	184.75	153.70	143.50	138.55	133.15	128.95
.8438	27/32	2	6	2 1/2	3/4	9 1/2	340227	128.20	.8161 - .8470	190.05	159.00	148.80	143.80	138.55	134.20
.8750	7/8	2	6	2 5/8	3/4	10	340228	133.15	.8471 - .8780	197.15	165.20	154.40	149.10	143.70	139.35
.9062	29/32	2	6	2 5/8	3/4	10	340229	156.10	.8781 - .9090	220.20	188.00	177.30	172.15	166.70	162.30
.9375	15/16	3	8	2 5/8	3/4	10	340230	156.10	.9091 - .9410	220.20	188.00	177.30	172.15	166.70	162.30
.9688	31/32	3	8	2 5/8	3/4	10	340231	162.75	.9411 - .9720	226.80	194.60	183.80	178.70	173.30	168.90
1.0000	1	3	8	2 3/4	3/4	10 1/2	340232	162.75	.9721 - 1.0030	226.80	194.60	183.80	178.70	173.30	168.90
1.0625	1 1/16	3	8	2 3/4	3/4	10 1/2	340234	223.30	1.0031 - 1.0660	284.95	254.15	243.90	238.90	233.55	229.35
1.1250	1 1/8	3	8	2 7/8	7/8	11	340236	238.00	1.0661 - 1.1280	299.55	268.55	258.35	253.35	248.20	244.05
1.1875	1 3/16	3	8	2 7/8	7/8	11	340238	252.05	1.1281 - 1.1905	313.75	282.65	272.55	267.40	262.20	258.10
1.2500	1 1/4	4	8	3	7/8	11 1/2	340240	280.10	1.1906 - 1.2530	341.65	310.80	300.50	295.45	290.30	286.05
1.3125	1 3/16	4	8	3	7/8	11 1/2	340242	302.00	1.2531 - 1.3155	363.50	332.70	322.35	317.45	312.15	308.00
1.3750	1 3/8	4	8	3 1/4	7/8	12	340244	314.20	1.3156 - 1.3780	375.75	344.90	334.60	329.70	324.30	320.40
1.4375	1 7/16	4	8	3 1/4	7/8	12	340246	320.70	1.3781 - 1.4405	382.30	351.55	341.05	336.25	330.85	326.75
1.5000	1 1/2	4	8	3 1/2	7/8	12 1/2	340248	336.65	1.4406 - 1.5030	398.25	367.55	357.15	352.20	346.85	342.70
1.5625	1 9/16	4	8	3 1/2	7/8	12 1/2	340250	363.40	1.5031 - 1.5660	424.95	394.20	383.75	378.90	373.60	369.45
1.6250	1 5/8	4	8	3 3/4	7/8	13	340252	375.90	1.5661 - 1.6280	437.55	406.80	396.35	391.45	386.25	382.00
1.6875	1 11/16	4	8	3 3/4	7/8	13	340254	422.75	1.6281 - 1.6910	484.35	453.45	443.30	438.20	433.10	428.95
1.7500	1 3/4	4	10	4	7/8	13 1/2	340256	422.75	1.6911 - 1.7530	484.35	453.45	443.30	438.20	433.10	428.95
1.8125	1 13/16	4	10	4	7/8	13 1/2	340258	422.75	1.7531 - 1.8160	484.35	453.45	443.30	438.20	433.10	428.95
1.8750	1 7/8	4	10	4 1/4	7/8	14	340260	443.00	1.8161 - 1.8780	504.50	473.70	463.35	458.35	453.20	449.00
1.9375	1 15/16	4	10	4 1/4	7/8	14	340262	443.00	1.8781 - 1.9410	504.50	473.70	463.35	458.35	453.20	449.00
2.0000	2	4	12	4 1/4	7/8	14	340264	443.00	1.9411 - 2.0030	504.50	473.70	463.35	458.35	453.20	449.00

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CARBIDE TIPPED CHUCKING REAMERS

METRIC



TYPE 3402 - TAPER SHANK - STRAIGHT FLUTES

Detailed description and fractional sizes on page 70.
Tolerances on page 60. Tool diameter in millimeters with all other dimensions in inches.

TOOL DIAMETER		MORSE TAPER	NO. OF FLTS.	LENGTH			EDP NO.	PRICE EACH	METRIC SIZE RANGE	PRICE EACH - FINISHED TO METRIC SIZE						
mm	INCH			FLT	CARB	OAL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
6.0	.2362	1	4	1 ½	½	6	3402060	\$88.05	6.000 - 6.426	\$130.50	\$102.30	\$93.00	\$88.25	\$83.60	\$79.55	\$74.15
6.5	.2559	1	4	1 ½	½	6	3402065	89.45	6.427 - 7.214	131.60	103.65	94.20	89.60	84.80	80.90	75.60
7.0	.2756	1	4	1 ½	½	6	3402070	89.45	-	-	-	-	-	-	-	-
7.5	.2953	1	4	1 ½	½	6	3402075	89.45	7.215 - 8.001	131.60	103.65	94.20	89.60	84.80	80.90	75.60
8.0	.3150	1	4	1 ½	½	6	3402080	89.45	-	-	-	-	-	-	-	-
8.5	.3346	1	4	1 ½	¾	6	3402085	91.85	8.002 - 8.814	134.20	106.15	96.85	92.10	87.40	83.60	78.10
9.0	.3543	1	4	1 ¾	¾	7	3402090	84.30	8.815 - 9.601	123.15	97.45	88.90	84.60	80.30	76.80	71.65
9.5	.3740	1	4	1 ¾	¾	7	3402095	84.30	-	-	-	-	-	-	-	-
10.0	.3937	1	4	1 ¾	¾	7	3402100	95.50	9.602 - 10.389	137.75	109.70	100.40	95.80	91.15	87.15	81.80
10.5	.4134	1	4	1 ¾	¾	7	3402105	100.45	10.390 - 11.201	142.80	114.85	105.30	100.75	96.00	92.00	86.80
11.0	.4331	1	4	1 ¾	¾	7	3402110	100.45	-	-	-	-	-	-	-	-
11.5	.4528	1	4	1 ¾	¾	7	3402115	102.65	11.202 - 11.989	144.95	117.05	107.45	102.95	98.20	94.25	89.00
12.0	.4724	1	6	2	¾	8	3402120	119.50	11.990 - 12.776	165.85	135.25	124.80	119.65	114.70	110.30	104.25
12.5	.4921	1	6	2	¾	8	3402125	119.50	-	-	-	-	-	-	-	-
13.0	.5118	1	6	2	¾	8	3402130	127.30	12.777 - 13.564	173.95	143.05	132.70	127.60	122.55	118.15	112.10
13.5	.5315	1	6	2	¾	8	3402135	127.30	-	-	-	-	-	-	-	-
14.0	.5512	1	6	2	¾	8	3402140	127.30	13.565 - 14.376	173.95	143.05	132.70	127.60	122.55	118.15	112.10
14.5	.5709	1	6	2	¾	8	3402145	132.55	14.377 - 15.164	179.00	148.20	137.75	132.85	127.60	123.25	117.35
15.0	.5906	1	6	2	¾	8	3402150	132.55	-	-	-	-	-	-	-	-
15.5	.6102	2	6	2 ¼	¾	9	3402155	132.55	15.165 - 15.951	179.00	148.20	137.75	132.85	127.60	123.25	117.35
16.0	.6299	2	6	2 ¼	¾	9	3402160	134.55	15.952 - 16.739	181.15	150.05	139.95	134.85	129.65	125.25	119.45
16.5	.6496	2	6	2 ¼	¾	9	3402165	134.55	-	-	-	-	-	-	-	-
17.0	.6693	2	6	2 ¼	¾	9	3402170	134.55	16.740 - 17.551	181.15	150.05	139.95	134.85	129.65	125.25	119.45
17.5	.6890	2	6	2 ¼	¾	9	3402175	134.55	-	-	-	-	-	-	-	-
18.0	.7087	2	6	2 ¼	¾	9	3402180	139.65	17.552 - 18.339	186.35	155.35	145.15	140.00	134.85	130.55	124.65
18.5	.7283	2	6	2 ½	¾	9 ½	3402185	139.65	18.340 - 19.126	186.35	155.35	145.15	140.00	134.85	130.55	124.65
19.0	.7480	2	6	2 ½	¾	9 ½	3402190	139.65	-	-	-	-	-	-	-	-
19.5	.7677	2	6	2 ½	¾	9 ½	3402195	143.50	19.127 - 19.914	189.90	159.00	148.80	143.70	138.55	134.10	128.20
20.0	.7874	2	6	2 ½	¾	9 ½	3402200	143.50	19.915 - 20.726	189.90	159.00	148.80	143.70	138.55	134.10	128.20
20.5	.8071	2	6	2 ½	¾	9 ½	3402205	143.50	-	-	-	-	-	-	-	-
21.0	.8268	2	6	2 ½	¾	9 ½	3402210	148.80	20.727 - 21.514	195.35	164.50	154.00	148.95	143.80	139.40	133.60
21.5	.8465	2	6	2 ½	¾	9 ½	3402215	148.80	-	-	-	-	-	-	-	-
22.0	.8661	2	6	2 ¾	¾	10	3402220	148.80	21.515 - 22.301	195.35	164.50	154.00	148.95	143.80	139.40	133.60
22.5	.8858	2	6	2 ¾	¾	10	3402225	177.30	22.302 - 23.089	225.65	193.60	182.90	177.50	172.15	167.60	161.55
23.0	.9055	2	6	2 ¾	¾	10	3402230	177.30	-	-	-	-	-	-	-	-
23.5	.9252	3	8	2 ¾	¾	10	3402235	177.30	23.090 - 23.901	225.65	193.60	182.90	177.50	172.15	167.60	161.55
24.0	.9449	3	8	2 ¾	¾	10	3402240	183.80	23.902 - 24.689	232.30	200.25	189.30	184.10	178.70	174.25	168.05
24.5	.9646	3	8	2 ¾	¾	10	3402245	183.80	-	-	-	-	-	-	-	-
25.0	.9843	3	8	2 ¾	¾	10 ½	3402250	183.80	24.690 - 25.476	232.30	200.25	189.30	184.10	178.70	174.25	168.05
25.5	1.0039	3	8	2 ¾	¾	10 ½	3402255	243.90	25.477 - 27.076	290.25	259.40	249.20	244.10	238.90	234.65	228.85
26.0	1.0236	3	8	2 ¾	¾	10 ½	3402260	243.90	-	-	-	-	-	-	-	-
27.0	1.0630	3	8	2 ¾	¾	10 ½	3402270	243.90	-	-	-	-	-	-	-	-
28.0	1.1024	3	8	2 ¾	¾	11	3402280	258.35	27.077 - 28.651	304.65	273.80	263.55	258.55	253.35	249.20	243.20
29.0	1.1417	3	8	2 ¾	¾	11	3402290	272.55	28.652 - 30.239	318.75	288.05	277.85	272.70	267.40	263.30	257.25
30.0	1.1811	3	8	2 ¾	¾	11	3402300	272.55	-	-	-	-	-	-	-	-
31.0	1.2205	4	8	3	¾	11 ½	3402310	300.50	30.240 - 31.826	346.80	316.15	305.80	300.65	295.45	291.20	285.30
32.0	1.2598	4	8	3	¾	11 ½	3402320	322.35	31.827 - 33.414	368.65	338.00	327.55	322.60	317.45	313.05	307.30
33.0	1.2992	4	8	3	¾	11 ½	3402330	322.35	-	-	-	-	-	-	-	-
34.0	1.3386	4	8	3 ¼	¾	12	3402340	334.60	33.415 - 35.001	380.85	350.20	339.90	334.85	329.70	325.40	319.55
35.0	1.3780	4	8	3 ¼	¾	12	3402350	334.60	-	-	-	-	-	-	-	-
36.0	1.4173	4	8	3 ¼	¾	12	3402360	341.05	35.002 - 36.589	387.55	356.70	346.45	341.50	336.25	331.95	326.00
37.0	1.4567	4	8	3 ½	¾	12 ½	3402370	357.15	36.590 - 38.176	403.50	372.80	362.35	357.45	352.20	347.90	342.15
38.0	1.4961	4	8	3 ½	¾	12 ½	3402380	357.15	-	-	-	-	-	-	-	-
39.0	1.5354	4	8	3 ½	¾	12 ½	3402390	383.75	38.177 - 39.776	430.15	399.40	389.05	384.10	378.90	374.50	368.65
40.0	1.5748	4	8	3 ¾	¾	13	3402400	396.35	39.777 - 41.351	442.70	412.00	401.65	396.60	391.45	387.15	381.20
41.0	1.6142	4	8	3 ¾	¾	13	3402410	396.35	-	-	-	-	-	-	-	-

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Diameters up to 50mm - call us for price & availability.

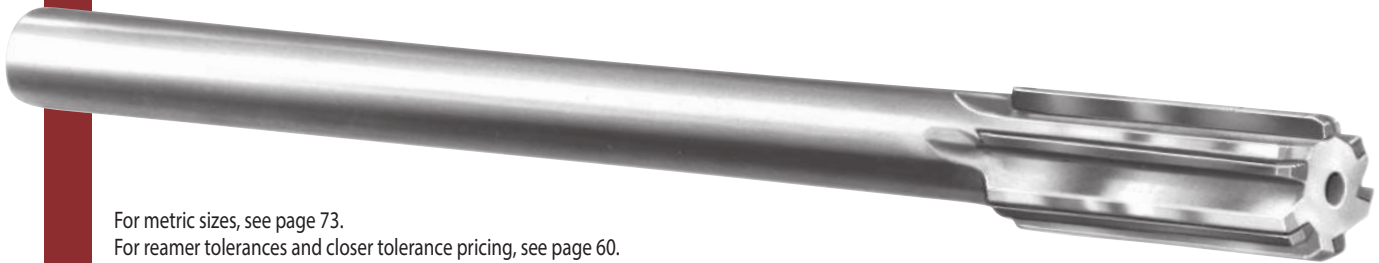
Made in U.S.A.

CARBIDE TIPPED CHUCKING REAMERS

TYPE 3450 - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE

Flute long carbide tips brazed to one piece hardened alloy steel bodies.
Straight polished flutes.

Designed and manufactured for maximum tool life. Used for all general types of reaming including low carbon steels, cast iron, non-ferrous metals and non-metals. Designed with flute long carbide for deep hole reaming. Smaller sizes available in solid carbide. See pages 50 through 56.



For metric sizes, see page 73.

For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		SHANK DIAM.	NO. OF FLUTES	LENGTH		EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL			FLUTE	OVERALL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.1875	3/16	1/64	4	1 1/2	6	345006	\$72.05	.1770 - .2040	\$129.80	\$100.85	\$91.40	\$86.65	\$81.65	\$77.70
.2188	7/32	13/64	4	1 1/2	6	345007	72.05	.2041 - .2210	129.80	100.85	91.40	86.65	81.65	77.70
.2344	15/64	7/32	4	1 1/2	6	34502344	72.05	.2211 - .2380	129.80	100.85	91.40	86.65	81.65	77.70
.2500	1/4	15/64	4	1 1/2	6	345008	72.05	.2381 - .2530	129.80	100.85	91.40	86.65	81.65	77.70
.2812	9/32	15/64	4	1 1/2	6	345009	73.70	.2531 - .2840	131.40	102.45	92.75	88.15	83.10	79.30
.3125	5/16	9/32	4	1 1/2	6	345010	73.70	.2841 - .3150	131.40	102.45	92.75	88.15	83.10	79.30
.3438	11/32	9/32	4	1 1/2	6	345011	76.20	.3151 - .3470	134.05	105.25	95.35	90.85	85.90	81.95
.3750	3/8	5/16	4	1 3/4	7	345012	76.20	.3471 - .3780	134.05	105.25	95.35	90.85	85.90	81.95
.4062	13/32	5/16	4	1 3/4	7	345013	80.15	.3781 - .4090	137.75	109.00	99.25	94.75	89.65	85.75
.4375	7/16	3/8	4	1 3/4	7	345014	86.65	.4091 - .4410	144.40	115.35	105.70	101.25	96.15	92.30
.4688	15/32	3/8	4	1 3/4	7	345015	93.50	.4411 - .4720	151.35	122.55	112.65	108.05	103.10	99.25
.5000	1/2	7/16	6	2	8	345016	100.15	.4721 - .5030	162.10	131.10	120.90	115.80	110.60	106.20
.5312	17/32	7/16	6	2	8	345017	103.05	.5031 - .5340	164.95	133.95	123.60	118.55	113.25	109.10
.5625	9/16	7/16	6	2	8	345018	103.05	.5341 - .5660	164.95	133.95	123.60	118.55	113.25	109.10
.5938	19/32	7/16	6	2	8	345019	107.15	.5661 - .5970	168.95	137.80	127.60	122.75	117.35	113.15
.6250	5/8	9/16	6	2	9	345020	107.15	.5971 - .6280	168.95	137.80	127.60	122.75	117.35	113.15
.6562	21/32	9/16	6	2	9	345021	109.00	.6281 - .6590	170.85	139.95	129.60	124.65	119.20	115.05
.6875	11/16	9/16	6	2	9	345022	109.00	.6591 - .6910	170.85	139.95	129.60	124.65	119.20	115.05
.7188	23/32	9/16	6	2	9	345023	114.00	.6911 - .7220	175.85	144.95	134.55	129.65	124.30	120.05
.7500	3/4	5/8	6	2	9 1/2	345024	114.00	.7221 - .7530	175.85	144.95	134.55	129.65	124.30	120.05
.7812	25/32	5/8	6	2	9 1/2	345025	117.95	.7531 - .7840	179.80	148.85	138.55	133.60	128.20	124.05
.8125	13/16	5/8	6	2	9 1/2	345026	117.95	.7841 - .8160	179.80	148.85	138.55	133.60	128.20	124.05
.8438	27/32	5/8	6	2	9 1/2	345027	122.75	.8161 - .8470	184.60	153.45	143.10	138.20	133.00	128.65
.8750	7/8	3/4	6	2 1/4	10	345028	127.30	.8471 - .8780	191.50	159.45	148.65	143.40	137.80	133.60
.9062	29/32	3/4	6	2 1/4	10	345029	148.20	.8781 - .9090	212.35	180.25	169.40	164.35	158.85	154.45
.9375	15/16	3/4	8	2 1/4	10	345030	148.20	.9091 - .9410	212.35	180.25	169.40	164.35	158.85	154.45
.9688	31/32	3/4	8	2 1/4	10	345031	155.20	.9411 - .9720	219.45	187.35	176.60	171.45	165.85	161.55
1.0000	1	7/8	8	2 1/4	10 1/2	345032	155.20	.9721 - 1.0030	219.45	187.35	176.60	171.45	165.85	161.55
1.0625	1 1/16	7/8	8	2 1/4	10 1/2	345034	160.65	1.0031 - 1.0660	222.25	191.35	181.05	176.05	170.85	166.70
1.1250	1 1/8	7/8	8	2 1/4	11	345036	173.90	1.0661 - 1.1280	235.35	204.65	194.20	189.30	183.95	179.80
1.1875	1 3/16	1	8	2 1/4	11	345038	181.90	1.1281 - 1.1905	243.35	212.60	202.30	197.30	192.00	187.95
1.2500	1 1/4	1	8	2 1/2	11 1/2	345040	212.35	1.1906 - 1.2530	273.80	243.15	232.70	227.80	222.50	218.35
1.3125	1 5/16	1	8	2 1/2	11 1/2	345042	212.35	1.2531 - 1.3155	273.80	243.15	232.70	227.80	222.50	218.35
1.3750	1 3/8	1	8	2 1/2	12	345044	215.45	1.3156 - 1.3780	277.00	246.25	235.80	230.95	225.65	221.45
1.4375	1 7/16	1 1/4	8	2 1/2	12	345046	238.05	1.3781 - 1.4405	299.70	268.60	258.50	253.55	248.25	244.10
1.5000	1 1/2	1 1/4	8	2 1/2	12 1/2	345048	285.75	1.4406 - 1.5030	347.30	316.40	306.20	301.25	295.95	291.90
1.5625	1 9/16	1 1/4	8	2 1/2	12 1/2	345050	377.25	1.5031 - 1.5660	438.80	407.85	397.60	392.65	387.45	383.30
1.6250	1 5/8	1 1/4	8	2 3/4	13	345052	390.10	1.5661 - 1.6280	451.65	420.65	410.45	405.65	400.25	396.15
1.6875	1 11/16	1 1/4	8	2 3/4	13	345054	428.20	1.6281 - 1.6910	489.90	459.10	448.85	443.75	438.55	434.45
1.7500	1 3/4	1 1/4	10	3	13 1/2	345056	428.20	1.6911 - 1.7530	489.90	459.10	448.85	443.75	438.55	434.45
1.8125	1 13/16	1 1/2	10	3	13 1/2	345058	438.20	1.7531 - 1.8160	499.95	469.10	458.60	453.85	448.45	444.40
1.8750	1 7/8	1 1/2	10	3 1/4	14	345060	459.55	1.8161 - 1.8780	521.10	490.25	480.05	475.05	469.70	465.60
1.9375	1 15/16	1 1/2	10	3 1/4	14	345062	487.30	1.8781 - 1.9410	548.80	517.85	507.65	502.75	497.50	493.30
2.0000	2	1 1/2	12	3 1/4	14	345064	487.30	1.9411 - 2.0030	548.80	517.85	507.65	502.75	497.50	493.30

CARBIDE TIPPED CHUCKING REAMERS

METRIC

TYPE 3450 - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE

Detailed description and fractional sizes on page 72. Tolerances on page 60.
Tool diameter in millimeters with all other dimensions in inches.



TOOL DIAMETER		SHANK DIAM.	NO. OF FLTS.	LENGTH		EDP NO.	PRICE EACH	METRIC SIZE RANGE	PRICE EACH - FINISHED TO METRIC SIZE						
mm	INCH			FLUTE	OVERALL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
4.5	.1772	1/64	4	1 1/2	6	3450045	\$91.40	4.494 - 5.182	\$134.80	\$105.90	\$96.15	\$91.50	\$86.65	\$82.65	\$77.05
5.0	.1969	1/64	4	1 1/2	6	3450050	91.40	-	-	-	-	-	-	-	-
5.5	.2165	1/64	4	1 1/2	6	3450055	91.40	5.183 - 5.613	134.80	105.90	96.15	91.50	86.65	82.65	77.05
6.0	.2362	7/32	4	1 1/2	6	3450060	91.40	5.614 - 6.045	134.80	105.90	96.15	91.50	86.65	82.65	77.05
6.3	.2480	15/64	4	1 1/2	6	3450063	91.40	6.046 - 6.426	134.80	105.90	96.15	91.50	86.65	82.65	77.05
6.5	.2559	15/64	4	1 1/2	6	3450065	92.75	6.427 - 7.214	136.10	107.35	97.70	93.00	88.15	84.00	78.60
7.0	.2756	15/64	4	1 1/2	6	3450070	92.75	-	-	-	-	-	-	-	-
7.5	.2953	9/32	4	1 1/2	6	3450075	92.75	7.215 - 8.001	136.10	107.35	97.70	93.00	88.15	84.00	78.60
8.0	.3150	9/32	4	1 1/2	6	3450080	92.75	-	-	-	-	-	-	-	-
8.5	.3346	9/32	4	1 1/2	6	3450085	95.35	8.002 - 8.814	138.90	110.15	100.40	95.70	90.85	86.85	81.25
9.0	.3543	5/16	4	1 3/4	7	3450090	95.35	8.815 - 9.601	138.90	110.15	100.40	95.70	90.85	86.85	81.25
9.5	.3740	5/16	4	1 3/4	7	3450095	95.35	-	-	-	-	-	-	-	-
10.0	.3937	5/16	4	1 3/4	7	3450100	99.25	9.602 - 10.389	142.75	113.95	104.20	99.50	94.75	90.65	85.05
10.5	.4134	3/8	4	1 3/4	7	3450105	105.70	10.390 - 11.201	149.30	120.30	110.70	106.00	101.25	97.05	91.55
11.0	.4331	3/8	4	1 3/4	7	3450110	105.70	-	-	-	-	-	-	-	-
11.5	.4528	3/8	4	1 3/4	7	3450115	112.65	11.202 - 11.989	156.20	127.30	117.70	113.00	108.05	104.05	98.50
12.0	.4724	7/16	6	2	8	3450120	120.90	11.990 - 12.776	167.30	136.55	126.10	121.05	115.80	111.50	105.55
12.5	.4921	7/16	6	2	8	3450125	120.90	-	-	-	-	-	-	-	-
13.0	.5118	7/16	6	2	8	3450130	123.60	12.777 - 13.564	170.20	139.25	128.90	123.75	118.55	114.25	108.35
13.5	.5315	7/16	6	2	8	3450135	123.60	-	-	-	-	-	-	-	-
14.0	.5512	7/16	6	2	8	3450140	123.60	13.565 - 14.376	170.20	139.25	128.90	123.75	118.55	114.25	108.35
14.5	.5709	7/16	6	2	8	3450145	127.60	14.377 - 15.164	174.20	143.20	133.00	127.85	122.75	118.30	112.40
15.0	.5906	7/16	6	2	8	3450150	127.60	-	-	-	-	-	-	-	-
15.5	.6102	9/16	6	2	9	3450155	127.60	15.165 - 15.951	174.20	143.20	133.00	127.85	122.75	118.30	112.40
16.0	.6299	9/16	6	2	9	3450160	129.60	15.952 - 16.739	175.90	145.25	134.85	129.75	124.65	120.20	114.25
16.5	.6496	9/16	6	2	9	3450165	129.60	-	-	-	-	-	-	-	-
17.0	.6693	9/16	6	2	9	3450170	129.60	16.740 - 17.551	175.90	145.25	134.85	129.75	124.65	120.20	114.25
17.5	.6890	9/16	6	2	9	3450175	129.60	-	-	-	-	-	-	-	-
18.0	.7087	9/16	6	2	9	3450180	134.55	17.552 - 18.339	181.15	150.05	139.95	134.85	129.65	125.25	119.45
18.5	.7283	5/8	6	2	9 1/2	3450185	134.55	18.340 - 19.126	181.15	150.05	139.95	134.85	129.65	125.25	119.45
19.0	.7480	5/8	6	2	9 1/2	3450190	134.55	-	-	-	-	-	-	-	-
19.5	.7677	5/8	6	2	9 1/2	3450195	138.55	19.127 - 19.914	185.00	154.30	143.80	138.75	133.60	129.20	123.25
20.0	.7874	5/8	6	2	9 1/2	3450200	138.55	19.915 - 20.726	185.00	154.30	143.80	138.75	133.60	129.20	123.25
20.5	.8071	5/8	6	2	9 1/2	3450205	138.55	-	-	-	-	-	-	-	-
21.0	.8268	5/8	6	2	9 1/2	3450210	143.10	20.727 - 21.514	189.75	158.85	148.50	143.50	138.20	133.95	127.90
21.5	.8465	5/8	6	2	9 1/2	3450215	143.10	-	-	-	-	-	-	-	-
22.0	.8661	3/4	6	2 1/4	10	3450220	143.10	21.515 - 22.301	189.75	158.85	148.50	143.50	138.20	133.95	127.90
22.5	.8858	3/4	6	2 1/4	10	3450225	169.40	22.302 - 23.089	217.80	185.75	175.00	169.65	164.35	159.75	153.55
23.0	.9055	3/4	6	2 1/4	10	3450230	169.40	-	-	-	-	-	-	-	-
23.5	.9252	3/4	8	2 1/4	10	3450235	169.40	23.090 - 23.901	217.80	185.75	175.00	169.65	164.35	159.75	153.55
24.0	.9449	3/4	8	2 1/4	10	3450240	176.60	23.902 - 24.689	224.75	192.85	181.95	176.75	171.45	167.00	160.90
24.5	.9646	3/4	8	2 1/4	10	3450245	176.60	-	-	-	-	-	-	-	-
25.0	.9843	7/8	8	2 1/4	10 1/2	3450250	176.60	24.690 - 25.476	224.75	192.85	181.95	176.75	171.45	167.00	160.90
25.5	1.0039	7/8	8	2 1/4	10 1/2	3450255	181.05	25.477 - 27.076	227.35	196.70	186.35	181.30	176.05	171.85	165.85
26.0	1.0236	7/8	8	2 1/4	10 1/2	3450260	181.05	-	-	-	-	-	-	-	-
27.0	1.0630	7/8	8	2 1/4	10 1/2	3450270	181.05	-	-	-	-	-	-	-	-
28.0	1.1024	7/8	8	2 1/4	11	3450280	194.20	27.077 - 28.651	240.55	209.85	199.45	194.50	189.30	185.00	179.00
29.0	1.1417	1	8	2 1/4	11	3450290	202.30	28.652 - 30.239	248.50	217.95	207.50	202.45	197.30	193.10	187.25
30.0	1.1811	1	8	2 1/4	11	3450300	202.30	-	-	-	-	-	-	-	-
31.0	1.2205	1	8	2 1/2	11 1/2	3450310	232.70	30.240 - 31.826	279.10	248.35	238.05	233.15	227.80	223.40	217.65
32.0	1.2598	1	8	2 1/2	11 1/2	3450320	232.70	31.827 - 33.414	279.10	248.35	238.05	233.15	227.80	223.40	217.65
33.0	1.2992	1	8	2 1/2	11 1/2	3450330	232.70	-	-	-	-	-	-	-	-
34.0	1.3386	1	8	2 1/2	12	3450340	235.80	33.415 - 35.001	282.30	251.50	241.15	236.15	230.95	226.70	220.85
35.0	1.3780	1	8	2 1/2	12	3450350	235.80	-	-	-	-	-	-	-	-
36.0	1.4173	1 1/4	8	2 1/2	12	3450360	258.50	35.002 - 36.589	304.75	274.15	263.70	258.65	253.55	249.25	243.30
37.0	1.4567	1 1/4	8	2 1/2	12 1/2	3450370	306.20	36.590 - 38.176	352.35	321.75	311.40	306.40	301.25	296.95	291.00
38.0	1.4961	1 1/4	8	2 1/2	12 1/2	3450380	306.20	-	-	-	-	-	-	-	-

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CARBIDE TIPPED DECIMAL SIZE CHUCKING REAMERS

**TYPE 3450 - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE
STANDARD DECIMAL DIAMETER REAMERS (.0005" INCREMENTS)
THIS PAGE .1770" THRU .3265"**

For fractional, wire, letter sizes and dimensions, see pages 72.

DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH
.1770	34501770	\$91.40	.2070	34502070	\$91.40	.2370	34502370	\$91.40	.2670	34502670	\$92.75	.2970	34502970	\$92.75
.1775	34501775	91.40	.2075	34502075	91.40	.2375	34502375	91.40	.2675	34502675	92.75	.2975	34502975	92.75
.1780	34501780	91.40	.2080	34502080	91.40	.2380	34502380	91.40	.2680	34502680	92.75	.2980	34502980	92.75
.1785	34501785	91.40	.2085	34502085	91.40	.2385	34502385	91.40	.2685	34502685	92.75	.2985	34502985	92.75
.1790	34501790	91.40	.2090	34502090	91.40	.2390	34502390	91.40	.2690	34502690	92.75	.2990	34502990	92.75
.1795	34501795	91.40	.2095	34502095	91.40	.2395	34502395	91.40	.2695	34502695	92.75	.2995	34502995	92.75
.1800	34501800	91.40	.2100	34502100	91.40	.2400	34502400	91.40	.2700	34502700	92.75	.3000	34503000	92.75
.1805	34501805	91.40	.2105	34502105	91.40	.2405	34502405	91.40	.2705	34502705	92.75	.3005	34503005	92.75
.1810	34501810	91.40	.2110	34502110	91.40	.2410	34502410	91.40	.2710	34502710	92.75	.3010	34503010	92.75
.1815	34501815	91.40	.2115	34502115	91.40	.2415	34502415	91.40	.2715	34502715	92.75	.3015	34503015	92.75
.1820	34501820	91.40	.2120	34502120	91.40	.2420	34502420	91.40	.2720	34502720	92.75	.3020	34503020	92.75
.1825	34501825	91.40	.2125	34502125	91.40	.2425	34502425	91.40	.2725	34502725	92.75	.3025	34503025	92.75
.1830	34501830	91.40	.2130	34502130	91.40	.2430	34502430	91.40	.2730	34502730	92.75	.3030	34503030	92.75
.1835	34501835	91.40	.2135	34502135	91.40	.2435	34502435	91.40	.2735	34502735	92.75	.3035	34503035	92.75
.1840	34501840	91.40	.2140	34502140	91.40	.2440	34502440	91.40	.2740	34502740	92.75	.3040	34503040	92.75
.1845	34501845	91.40	.2145	34502145	91.40	.2445	34502445	91.40	.2745	34502745	92.75	.3045	34503045	92.75
.1850	3450047	91.40	.2150	34502150	91.40	.2450	34502450	91.40	.2750	34502750	92.75	.3050	34503050	92.75
.1855	34501855	91.40	.2155	34502155	91.40	.2455	34502455	91.40	.2755	34502755	92.75	.3055	34503055	92.75
.1860	34501860	91.40	.2160	34502160	91.40	.2460	34502460	91.40	.2760	34502760	92.75	.3060	34503060	92.75
.1865	34501865	91.40	.2165	3450055	91.40	.2465	34502465	91.40	.2765	34502765	92.75	.3065	34503065	92.75
.1870	34501870	91.40	.2170	34502170	91.40	.2470	34502470	91.40	.2770	34502770	92.75	.3070	34503070	92.75
.1875	345006	72.05	.2175	34502175	91.40	.2475	34502475	91.40	.2775	34502775	92.75	.3075	34503075	92.75
.1880	34501880	91.40	.2180	34502180	91.40	.2480	3450063	91.40	.2780	34502780	92.75	.3080	34503080	92.75
.1885	34501885	91.40	.2185	34502185	91.40	.2485	34502485	91.40	.2785	34502785	92.75	.3085	34503085	92.75
.1890	3450048	91.40	.2190	34502190	91.40	.2490	34502490	91.40	.2790	34502790	92.75	.3090	34503090	92.75
.1895	34501895	91.40	.2195	34502195	91.40	.2495	34502495	91.40	.2795	3450071	92.75	.3095	34503095	92.75
.1900	34501900	91.40	.2200	34502200	91.40	.2500	345008	72.05	.2800	34502800	92.75	.3100	34503100	92.75
.1905	34501905	91.40	.2205	3450056	91.40	.2505	34502505	91.40	.2805	34502805	92.75	.3105	34503105	92.75
.1910	34501910	91.40	.2210	34502210	91.40	.2510	34502510	91.40	.2810	34502810	92.75	.3110	3450079	92.75
.1915	34501915	91.40	.2215	34502215	91.40	.2515	34502515	91.40	.2815	34502815	92.75	.3115	34503115	92.75
.1920	34501920	91.40	.2220	34502220	91.40	.2520	3450064	91.40	.2820	34502820	92.75	.3120	34503120	92.75
.1925	34501925	91.40	.2225	34502225	91.40	.2525	34502525	91.40	.2825	34502825	92.75	.3125	345010	73.70
.1930	34501930	91.40	.2230	34502230	91.40	.2530	34502530	91.40	.2830	34502830	92.75	.3130	34503130	92.75
.1935	34501935	91.40	.2235	34502235	91.40	.2535	34502535	92.75	.2835	3450072	92.75	.3135	34503135	92.75
.1940	34501940	91.40	.2240	34502240	91.40	.2540	34502540	92.75	.2840	34502840	92.75	.3140	34503140	92.75
.1945	34501945	91.40	.2245	34502245	91.40	.2545	34502545	92.75	.2845	34502845	92.75	.3145	34503145	92.75
.1950	34501950	91.40	.2250	34502250	91.40	.2550	34502550	92.75	.2850	34502850	92.75	.3150	3450080	92.75
.1955	34501955	91.40	.2255	34502255	91.40	.2555	34502555	92.75	.2855	34502855	92.75	.3155	34503155	95.35
.1960	34501960	91.40	.2260	34502260	91.40	.2560	34502560	92.75	.2860	34502860	92.75	.3160	34503160	95.35
.1965	34501965	91.40	.2265	34502265	91.40	.2565	34502565	92.75	.2865	34502865	92.75	.3165	34503165	95.35
.1970	34501970	91.40	.2270	34502270	91.40	.2570	34502570	92.75	.2870	34502870	92.75	.3170	34503170	95.35
.1975	34501975	91.40	.2275	34502275	91.40	.2575	34502575	92.75	.2875	34502875	92.75	.3175	34503175	95.35
.1980	34501980	91.40	.2280	34502280	91.40	.2580	34502580	92.75	.2880	34502880	92.75	.3180	34503180	95.35
.1985	34501985	91.40	.2285	34502285	91.40	.2585	34502585	92.75	.2885	34502885	92.75	.3185	34503185	95.35
.1990	34501990	91.40	.2290	34502290	91.40	.2590	34502590	92.75	.2890	34502890	92.75	.3190	34503190	95.35
.1995	34501995	91.40	.2295	34502295	91.40	.2595	34502595	92.75	.2895	34502895	92.75	.3195	34503195	95.35
.2000	34502000	91.40	.2300	34502300	91.40	.2600	34502600	92.75	.2900	34502900	92.75	.3200	34503200	95.35
.2005	34502005	91.40	.2305	34502305	91.40	.2605	34502605	92.75	.2905	34502905	92.75	.3205	34503205	95.35
.2010	34502010	91.40	.2310	34502310	91.40	.2610	34502610	92.75	.2910	34502910	92.75	.3210	34503210	95.35
.2015	34502015	91.40	.2315	34502315	91.40	.2615	34502615	92.75	.2915	34502915	92.75	.3215	34503215	95.35
.2020	34502020	91.40	.2320	34502320	91.40	.2620	34502620	92.75	.2920	34502920	92.75	.3220	34503220	95.35
.2025	34502025	91.40	.2325	34502325	91.40	.2625	34502625	92.75	.2925	34502925	92.75	.3225	34503225	95.35
.2030	34502030	91.40	.2330	34502330	91.40	.2630	34502630	92.75	.2930	34502930	92.75	.3230	34503230	95.35
.2035	34502035	91.40	.2335	34502335	91.40	.2635	34502635	92.75	.2935	34502935	92.75	.3235	34503235	95.35
.2040	34502040	91.40	.2340	34502340	91.40	.2640	34502640	92.75	.2940	34502940	92.75	.3240	34503240	95.35
.2045	34502045	91.40	.2345	34502345	91.40	.2645	34502645	92.75	.2945	34502945	92.75	.3245	34503245	95.35
.2050	34502050	91.40	.2350	34502350	91.40	.2650	34502650	92.75	.2950	34502950	92.75	.3250	34503250	95.35
.2055	34502055	91.40	.2355	34502355	91.40	.2655	34502655	92.75	.2955	34502955	92.75	.3255	34503255	95.35
.2060	34502060	91.40	.2360	34502360	91.40	.2660	34502660	92.75	.2960	34502960	92.75	.3260	34503260	95.35
.2065	34502065	91.40	.2365	34502365	91.40	.2665	34502665	92.75	.2965	34502965	92.75	.3265	34503265	95.35

CARBIDE TIPPED DECIMAL SIZE CHUCKING REAMERS

**TYPE 3450 - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE
STANDARD DECIMAL DIAMETER REAMERS (.0005" INCREMENTS)
THIS PAGE .3270" THRU .4765"**

For fractional, wire, letter sizes and dimensions, see pages 72.

DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH
.3270	34503270	\$95.35	.3570	34503570	\$95.35	.3870	34503870	\$99.25	.4170	34504170	\$105.70	.4470	34504470	\$112.80
.3275	34503275	95.35	.3575	34503575	95.35	.3875	34503875	99.25	.4175	34504175	105.70	.4475	34504475	112.80
.3280	34503280	95.35	.3580	34503580	95.35	.3880	34503880	99.25	.4180	34504180	105.70	.4480	34504480	112.80
.3285	34503285	95.35	.3585	34503585	95.35	.3885	34503885	99.25	.4185	34504185	105.70	.4485	34504485	112.80
.3290	34503290	95.35	.3590	34503590	95.35	.3890	34503890	99.25	.4190	34504190	105.70	.4490	34504490	112.80
.3295	34503295	95.35	.3595	34503595	95.35	.3895	34503895	99.25	.4195	34504195	105.70	.4495	34504495	112.80
.3300	34503300	95.35	.3600	34503600	95.35	.3900	34503900	99.25	.4200	34504200	105.70	.4500	34504500	112.80
.3305	34503305	95.35	.3605	34503605	95.35	.3905	34503905	99.25	.4205	34504205	105.70	.4505	34504505	112.80
.3310	34503310	95.35	.3610	34503610	95.35	.3910	34503910	99.25	.4210	34504210	105.70	.4510	34504510	112.80
.3315	34503315	95.35	.3615	34503615	95.35	.3915	34503915	99.25	.4215	34504215	105.70	.4515	34504515	112.80
.3320	34503320	95.35	.3620	34503620	95.35	.3920	34503920	99.25	.4220	34504220	105.70	.4520	34504520	112.80
.3325	34503325	95.35	.3625	34503625	95.35	.3925	34503925	99.25	.4225	34504225	105.70	.4525	34504525	112.80
.3330	34503330	95.35	.3630	34503630	95.35	.3930	34503930	99.25	.4230	34504230	105.70	.4530	34504530	112.80
.3335	34503335	95.35	.3635	34503635	95.35	.3935	34503935	99.25	.4235	34504235	105.70	.4535	34504535	112.80
.3340	34503340	95.35	.3640	34503640	95.35	.3940	34503940	99.25	.4240	34504240	105.70	.4540	34504540	112.80
.3345	34503345	95.35	.3645	34503645	95.35	.3945	34503945	99.25	.4245	34504245	105.70	.4545	34504545	112.80
.3350	34503350	95.35	.3650	34503650	95.35	.3950	34503950	99.25	.4250	34504250	105.70	.4550	34504550	112.80
.3355	34503355	95.35	.3655	34503655	95.35	.3955	34503955	99.25	.4255	34504255	105.70	.4555	34504555	112.80
.3360	34503360	95.35	.3660	34503660	95.35	.3960	34503960	99.25	.4260	34504260	105.70	.4560	34504560	112.80
.3365	34503365	95.35	.3665	34503665	95.35	.3965	34503965	99.25	.4265	34504265	105.70	.4565	34504565	112.80
.3370	34503370	95.35	.3670	34503670	95.35	.3970	34503970	99.25	.4270	34504270	105.70	.4570	34504570	112.80
.3375	34503375	95.35	.3675	34503675	95.35	.3975	34503975	99.25	.4275	34504275	105.70	.4575	34504575	112.80
.3380	34503380	95.35	.3680	34503680	95.35	.3980	34503980	99.25	.4280	34504280	105.70	.4580	34504580	112.80
.3385	34503385	95.35	.3685	34503685	95.35	.3985	34503985	99.25	.4285	34504285	105.70	.4585	34504585	112.80
.3390	34503390	95.35	.3690	34503690	95.35	.3990	34503990	99.25	.4290	34504290	105.70	.4590	34504590	112.80
.3395	34503395	95.35	.3695	34503695	95.35	.3995	34503995	99.25	.4295	34504295	105.70	.4595	34504595	112.80
.3400	34503400	95.35	.3700	34503700	95.35	.4000	34504000	99.25	.4300	34504300	105.70	.4600	34504600	112.80
.3405	34503405	95.35	.3705	34503705	95.35	.4005	34504005	99.25	.4305	34504305	105.70	.4605	34504605	112.80
.3410	34503410	95.35	.3710	34503710	95.35	.4010	34504010	99.25	.4310	34504310	105.70	.4610	34504610	112.80
.3415	34503415	95.35	.3715	34503715	95.35	.4015	34504015	99.25	.4315	34504315	105.70	.4615	34504615	112.80
.3420	34503420	95.35	.3720	34503720	95.35	.4020	34504020	99.25	.4320	34504320	105.70	.4620	34504620	112.80
.3425	3450087	95.35	.3725	34503725	95.35	.4025	34504025	99.25	.4325	34504325	105.70	.4625	34504625	112.80
.3430	34503430	95.35	.3730	34503730	95.35	.4030	34504030	99.25	.4330	34504330	105.70	.4630	34504630	112.80
.3435	34503435	95.35	.3735	34503735	95.35	.4035	34504035	99.25	.4335	34504335	105.70	.4635	34504635	112.80
.3440	34503440	95.35	.3740	3450095	95.35	.4040	34504040	99.25	.4340	34504340	105.70	.4640	34504640	112.80
.3445	34503445	95.35	.3745	34503745	95.35	.4045	34504045	99.25	.4345	34504345	105.70	.4645	34504645	112.80
.3450	34503450	95.35	.3750	345012	76.20	.4050	34504050	99.25	.4350	34504350	105.70	.4650	34504650	112.80
.3455	34503455	95.35	.3755	34503755	95.35	.4055	3450103	99.25	.4355	34504355	105.70	.4655	34504655	112.80
.3460	34503460	95.35	.3760	34503760	95.35	.4060	34504060	99.25	.4360	34504360	105.70	.4660	34504660	112.80
.3465	3450088	95.35	.3765	34503765	95.35	.4065	34504065	99.25	.4365	34504365	105.70	.4665	34504665	112.80
.3470	34503470	95.35	.3770	34503770	95.35	.4070	34504070	99.25	.4370	3450111	105.70	.4670	34504670	112.80
.3475	34503475	95.35	.3775	34503775	95.35	.4075	34504075	99.25	.4375	345014	86.65	.4675	34504675	112.80
.3480	34503480	95.35	.3780	3450096	95.35	.4080	34504080	99.25	.4380	34504380	105.70	.4680	34504680	112.80
.3485	34503485	95.35	.3785	34503785	99.25	.4085	34504085	99.25	.4385	34504385	105.70	.4685	3450119	112.80
.3490	34503490	95.35	.3790	34503790	99.25	.4090	34504090	99.25	.4390	34504390	105.70	.4690	34504690	112.80
.3495	34503495	95.35	.3795	34503795	99.25	.4095	34504095	105.70	.4395	34504395	105.70	.4695	34504695	112.80
.3500	34503500	95.35	.3800	34503800	99.25	.4100	34504100	105.70	.4400	34504400	105.70	.4700	34504700	112.80
.3505	34503505	95.35	.3805	34503805	99.25	.4105	34504105	105.70	.4405	34504405	105.70	.4705	34504705	112.80
.3510	34503510	95.35	.3810	34503810	99.25	.4110	34504110	105.70	.4410	34504410	105.70	.4710	34504710	112.80
.3515	34503515	95.35	.3815	34503815	99.25	.4115	34504115	105.70	.4415	34504415	112.80	.4715	34504715	112.80
.3520	34503520	95.35	.3820	34503820	99.25	.4120	34504120	105.70	.4420	34504420	112.80	.4720	34504720	112.80
.3525	34503525	95.35	.3825	34503825	99.25	.4125	34504125	105.70	.4425	34504425	112.80	.4725	34504725	120.95
.3530	34503530	95.35	.3830	34503830	99.25	.4130	34504130	105.70	.4430	34504430	112.80	.4730	34504730	120.95
.3535	34503535	95.35	.3835	34503835	99.25	.4135	34504135	105.70	.4435	34504435	112.80	.4735	34504735	120.95
.3540	34503540	95.35	.3840	34503840	99.25	.4140	34504140	105.70	.4440	34504440	112.80	.4740	34504740	120.95
.3545	34503545	95.35	.3845	34503845	99.25	.4145	34504145	105.70	.4445	34504445	112.80	.4745	34504745	120.95
.3550	34503550	95.35	.3850	34503850	99.25	.4150	34504150	105.70	.4450	34504450	112.80	.4750	34504750	120.95
.3555	34503555	95.35	.3855	34503855	99.25	.4155	34504155	105.70	.4455	34504455	112.80	.4755	34504755	120.95
.3560	34503560	95.35	.3860	34503860	99.25	.4160	34504160	105.70	.4460	34504460	112.80	.4760	34504760	120.95
.3565	34503565	95.35	.3865	34503865	99.25	.4165	34504165	105.70	.4465	34504465	112.80	.4765	34504765	120.95

CARBIDE TIPPED DECIMAL SIZE CHUCKING REAMERS

**TYPE 3450 - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE
STANDARD DECIMAL DIAMETER REAMERS (.0005" INCREMENTS)
THIS PAGE .4770" THRU .6265"**

For fractional, wire, letter sizes and dimensions, see pages 72.

DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH	DECIMAL SIZE	EDP NO.	PRICE EACH
.4770	34504770	\$120.95	.5070	34505070	\$123.60	.5370	34505370	\$123.60	.5670	34505670	\$127.60	.5970	34505970	\$127.60
.4775	34504775	120.95	.5075	34505075	123.60	.5375	34505375	123.60	.5675	34505675	127.60	.5975	34505975	127.60
.4780	34504780	120.95	.5080	34505080	123.60	.5380	34505380	123.60	.5680	34505680	127.60	.5980	34505980	127.60
.4785	34504785	120.95	.5085	34505085	123.60	.5385	34505385	123.60	.5685	34505685	127.60	.5985	34505985	127.60
.4790	34504790	120.95	.5090	34505090	123.60	.5390	34505390	123.60	.5690	34505690	127.60	.5990	34505990	127.60
.4795	34504795	120.95	.5095	34505095	123.60	.5395	34505395	123.60	.5695	34505695	127.60	.5995	34505995	127.60
.4800	34504800	120.95	.5100	34505100	123.60	.5400	34505400	123.60	.5700	34505700	127.60	.6000	34506000	127.60
.4805	34504805	120.95	.5105	34505105	123.60	.5405	34505405	123.60	.5705	34505705	127.60	.6005	34506005	127.60
.4810	34504810	120.95	.5110	34505110	123.60	.5410	34505410	123.60	.5710	34505710	127.60	.6010	34506010	127.60
.4815	34504815	120.95	.5115	34505115	123.60	.5415	34505415	123.60	.5715	34505715	127.60	.6015	34506015	127.60
.4820	34504820	120.95	.5120	34505120	123.60	.5420	34505420	123.60	.5720	34505720	127.60	.6020	34506020	127.60
.4825	34504825	120.95	.5125	34505125	123.60	.5425	34505425	123.60	.5725	34505725	127.60	.6025	34506025	127.60
.4830	34504830	120.95	.5130	34505130	123.60	.5430	34505430	123.60	.5730	34505730	127.60	.6030	34506030	127.60
.4835	34504835	120.95	.5135	34505135	123.60	.5435	34505435	123.60	.5735	34505735	127.60	.6035	34506035	127.60
.4840	34504840	120.95	.5140	34505140	123.60	.5440	34505440	123.60	.5740	34505740	127.60	.6040	34506040	127.60
.4845	34504845	120.95	.5145	34505145	123.60	.5445	34505445	123.60	.5745	34505745	127.60	.6045	34506045	127.60
.4850	34504850	120.95	.5150	34505150	123.60	.5450	34505450	123.60	.5750	34505750	127.60	.6050	34506050	127.60
.4855	34504855	120.95	.5155	34505155	123.60	.5455	34505455	123.60	.5755	34505755	127.60	.6055	34506055	127.60
.4860	34504860	120.95	.5160	34505160	123.60	.5460	34505460	123.60	.5760	34505760	127.60	.6060	34506060	127.60
.4865	34504865	120.95	.5165	34505165	123.60	.5465	34505465	123.60	.5765	34505765	127.60	.6065	34506065	127.60
.4870	34504870	120.95	.5170	34505170	123.60	.5470	34505470	123.60	.5770	34505770	127.60	.6070	34506070	127.60
.4875	34504875	120.95	.5175	34505175	123.60	.5475	34505475	123.60	.5775	34505775	127.60	.6075	34506075	127.60
.4880	34504880	120.95	.5180	34505180	123.60	.5480	34505480	123.60	.5780	34505780	127.60	.6080	34506080	127.60
.4885	34504885	120.95	.5185	34505185	123.60	.5485	34505485	123.60	.5785	34505785	127.60	.6085	34506085	127.60
.4890	34504890	120.95	.5190	34505190	123.60	.5490	34505490	123.60	.5790	34505790	127.60	.6090	34506090	127.60
.4895	34504895	120.95	.5195	34505195	123.60	.5495	34505495	123.60	.5795	34505795	127.60	.6095	34506095	127.60
.4900	34504900	120.95	.5200	34505200	123.60	.5500	34505500	123.60	.5800	34505800	127.60	.6100	34506100	127.60
.4905	34504905	120.95	.5205	34505205	123.60	.5505	34505505	123.60	.5805	34505805	127.60	.6105	34506105	127.60
.4910	34504910	120.95	.5210	34505210	123.60	.5510	34505510	123.60	.5810	34505810	127.60	.6110	34506110	127.60
.4915	34504915	120.95	.5215	34505215	123.60	.5515	34505515	123.60	.5815	34505815	127.60	.6115	34506115	127.60
.4920	34504920	120.95	.5220	34505220	123.60	.5520	34505520	123.60	.5820	34505820	127.60	.6120	34506120	127.60
.4925	34504925	120.95	.5225	34505225	123.60	.5525	34505525	123.60	.5825	34505825	127.60	.6125	34506125	127.60
.4930	34504930	120.95	.5230	34505230	123.60	.5530	34505530	123.60	.5830	34505830	127.60	.6130	34506130	127.60
.4935	34504935	120.95	.5235	34505235	123.60	.5535	34505535	123.60	.5835	34505835	127.60	.6135	34506135	127.60
.4940	34504940	120.95	.5240	34505240	123.60	.5540	34505540	123.60	.5840	34505840	127.60	.6140	34506140	127.60
.4945	34504945	120.95	.5245	34505245	123.60	.5545	34505545	123.60	.5845	34505845	127.60	.6145	34506145	127.60
.4950	34504950	120.95	.5250	34505250	123.60	.5550	34505550	123.60	.5850	34505850	127.60	.6150	34506150	127.60
.4955	34504955	120.95	.5255	34505255	123.60	.5555	34505555	123.60	.5855	34505855	127.60	.6155	34506155	127.60
.4960	34504960	120.95	.5260	34505260	123.60	.5560	34505560	123.60	.5860	34505860	127.60	.6160	34506160	127.60
.4965	34504965	120.95	.5265	34505265	123.60	.5565	34505565	123.60	.5865	34505865	127.60	.6165	34506165	127.60
.4970	34504970	120.95	.5270	34505270	123.60	.5570	34505570	123.60	.5870	34505870	127.60	.6170	34506170	127.60
.4975	34504975	120.95	.5275	34505275	123.60	.5575	34505575	123.60	.5875	34505875	127.60	.6175	34506175	127.60
.4980	34504980	120.95	.5280	34505280	123.60	.5580	34505580	123.60	.5880	34505880	127.60	.6180	34506180	127.60
.4985	34504985	120.95	.5285	34505285	123.60	.5585	34505585	123.60	.5885	34505885	127.60	.6185	34506185	127.60
.4990	34504990	120.95	.5290	34505290	123.60	.5590	34505590	123.60	.5890	34505890	127.60	.6190	34506190	127.60
.4995	34504995	120.95	.5295	34505295	123.60	.5595	34505595	123.60	.5895	34505895	127.60	.6195	34506195	127.60
.5000	345016	100.15	.5300	34505300	123.60	.5600	34505600	123.60	.5900	34505900	127.60	.6200	34506200	127.60
.5005	34505005	120.95	.5305	34505305	123.60	.5605	34505605	123.60	.5905	34505905	127.60	.6205	34506205	127.60
.5010	34505010	120.95	.5310	34505310	123.60	.5610	34505610	123.60	.5910	34505910	127.60	.6210	34506210	127.60
.5015	34505015	120.95	.5315	3450135	123.60	.5615	34505615	123.60	.5915	34505915	127.60	.6215	34506215	127.60
.5020	34505020	120.95	.5320	34505320	123.60	.5620	34505620	123.60	.5920	34505920	127.60	.6220	3450158	127.60
.5025	34505025	120.95	.5325	34505325	123.60	.5625	345018	103.05	.5925	34505925	127.60	.6225	34506225	127.60
.5030	34505030	120.95	.5330	34505330	123.60	.5630	3450143	123.60	.5930	34505930	127.60	.6230	34506230	127.60
.5035	34505035	123.60	.5335	34505335	123.60	.5635	34505635	123.60	.5935	34505935	127.60	.6235	34506235	127.60
.5040	34505040	123.60	.5340	34505340	123.60	.5640	34505640	123.60	.5940	34505940	127.60	.6240	34506240	127.60
.5045	34505045	123.60	.5345	34505345	123.60	.5645	34505645	123.60	.5945	3450151	127.60	.6245	34506245	127.60
.5050	34505050	123.60	.5350	34505350	123.60	.5650	34505650	123.60	.5950	34505950	127.60	.6250	345020	107.15
.5055	34505055	123.60	.5355	34505355	123.60	.5655	34505655	123.60	.5955	34505955	127.60	.6255	34506255	127.60
.5060	34505060	123.60	.5360	34505360	123.60	.5660	34505660	123.60	.5960	34505960	127.60	.6260	3450159	127.60
.5065	34505065	123.60	.5365	34505365	123.60	.5665	34505665	127.60	.5965	34505965	127.60	.6265	34506265	127.60

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CARBIDE TIPPED CHUCKING REAMERS FOR STEEL

METRIC

TYPE 3480 - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE

Detailed description and fractional sizes on page 78. Tolerances on page 60.
Tool diameter in millimeters with all other dimensions in inches.



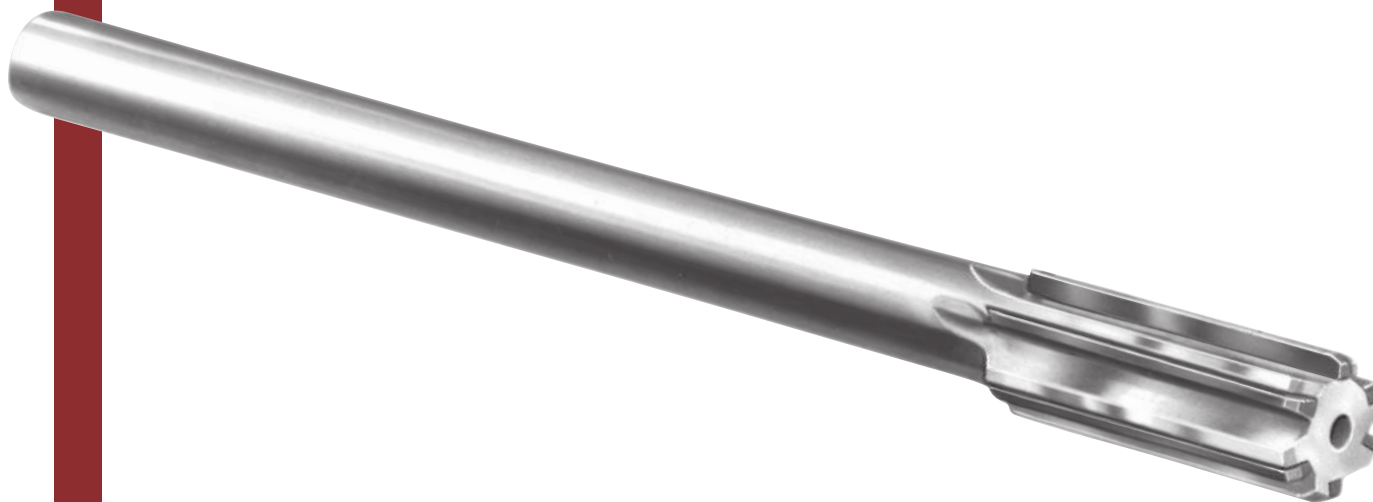
TOOL DIAMETER		MAX. SHANK DIAM.	NO. OF FLTS.	LENGTH		EDP NO.	PRICE EACH	METRIC SIZE RANGE	PRICE EACH - FINISHED TO METRIC SIZE						
mm	INCH			FLUTE	OVERALL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
4.5	.1772	.1704	4	1 1/8	4 1/2	3480045	\$105.55	4.494 - 4.696	\$149.00	\$120.20	\$110.60	\$105.90	\$101.00	\$97.00	\$91.50
5.0	.1969	.1805	4	1 1/8	4 1/2	3480050	105.55	4.697 - 5.182	149.00	120.20	110.60	105.90	101.00	97.00	91.50
5.5	.2165	.2075	4	1 1/4	5	3480055	105.55	5.183 - 5.613	149.00	120.20	110.60	105.90	101.00	97.00	91.50
6.0	.2362	.2265	4	1 1/2	6	3480060	105.55	5.614 - 6.045	149.00	120.20	110.60	105.90	101.00	97.00	91.50
-	.2480	.2405	4	1 1/2	6	3480063	-	6.046 - 6.426	149.00	120.20	110.60	105.90	101.00	97.00	91.50
6.5	.2559	.2485	4	1 1/2	6	3480065	107.45	6.427 - 7.214	150.95	122.00	112.40	107.65	102.95	98.80	93.35
7.0	.2756	.2485	4	1 1/2	6	3480070	107.45	-	-	-	-	-	-	-	-
7.5	.2953	.2792	4	1 1/2	6	3480075	107.45	7.215 - 8.001	150.95	122.00	112.40	107.65	102.95	98.80	93.35
8.0	.3150	.2792	4	1 1/2	6	3480080	107.45	-	-	-	-	-	-	-	-
8.5	.3346	.2792	4	1 1/2	6	3480085	110.70	8.002 - 8.814	154.30	125.25	115.60	110.90	106.05	102.05	96.45
9.0	.3543	.3105	4	1 3/4	7	3480090	110.70	8.815 - 9.601	154.30	125.25	115.60	110.90	106.05	102.05	96.45
9.5	.3740	.3105	4	1 3/4	7	3480095	110.70	-	-	-	-	-	-	-	-
10.0	.3937	.3105	4	1 3/4	7	3480100	115.20	9.602 - 10.389	158.60	129.80	120.05	115.35	110.60	106.50	101.00
10.5	.4134	.3730	6	1 3/4	7	3480105	130.50	10.390 - 11.201	173.95	145.15	135.40	130.70	125.85	121.80	116.20
11.0	.4331	.3730	6	1 3/4	7	3480110	130.50	-	-	-	-	-	-	-	-
11.5	.4528	.3730	6	1 3/4	7	3480115	131.55	11.202 - 11.989	175.10	146.05	136.55	131.70	126.95	122.95	117.35
12.0	.4724	.4355	6	2	8	3480120	140.90	11.990 - 12.776	187.50	156.55	146.20	141.05	135.95	131.60	125.80
12.5	.4921	.4355	6	2	8	3480125	140.90	-	-	-	-	-	-	-	-
13.0	.5118	.4355	6	2	8	3480130	144.15	12.777 - 13.564	190.95	159.95	149.60	144.45	139.35	135.00	129.10
13.5	.5315	.4355	6	2	8	3480135	144.15	-	-	-	-	-	-	-	-
14.0	.5512	.4355	6	2	8	3480140	144.15	13.565 - 14.376	190.95	159.95	149.60	144.45	139.35	135.00	129.10
14.5	.5709	.4355	6	2	8	3480145	148.95	14.377 - 15.164	195.50	164.65	154.40	149.30	144.00	139.65	133.80
15.0	.5906	.4355	6	2	8	3480150	148.95	-	-	-	-	-	-	-	-
15.5	.6102	.5615	6	2 1/4	9	3480155	148.95	15.165 - 15.951	195.50	164.65	154.40	149.30	144.00	139.65	133.80
16.0	.6299	.5615	6	2 1/4	9	3480160	151.35	15.952 - 16.739	198.00	167.15	156.70	151.65	146.45	142.15	136.10
16.5	.6496	.5615	6	2 1/4	9	3480165	151.35	-	-	-	-	-	-	-	-
17.0	.6693	.5615	6	2 1/4	9	3480170	151.35	16.740 - 17.551	198.00	167.15	156.70	151.65	146.45	142.15	136.10
17.5	.6890	.5615	6	2 1/4	9	3480175	151.35	-	-	-	-	-	-	-	-
18.0	.7087	.5615	6	2 1/4	9	3480180	157.45	17.552 - 18.339	203.80	172.90	162.75	157.65	152.50	148.00	142.15
18.5	.7283	.6245	6	2 1/2	9 1/2	3480185	157.45	18.340 - 19.126	203.80	172.90	162.75	157.65	152.50	148.00	142.15
19.0	.7480	.6245	6	2 1/2	9 1/2	3480190	157.45	-	-	-	-	-	-	-	-
19.5	.7677	.6245	6	2 1/2	9 1/2	3480195	162.00	19.127 - 19.914	208.65	177.75	167.30	162.25	156.95	152.80	146.90
20.0	.7874	.6245	6	2 1/2	9 1/2	3480200	162.00	19.915 - 20.726	208.65	177.75	167.30	162.25	156.95	152.80	146.90
20.5	.8071	.6245	6	2 1/2	9 1/2	3480205	162.00	-	-	-	-	-	-	-	-
21.0	.8268	.6245	6	2 1/2	9 1/2	3480210	167.60	20.727 - 21.514	214.40	183.35	172.90	167.90	162.85	158.45	152.65
21.5	.8465	.6245	6	2 1/2	9 1/2	3480215	167.60	-	-	-	-	-	-	-	-
22.0	.8661	.7495	6	2 5/8	10	3480220	167.60	21.515 - 22.301	214.40	183.35	172.90	167.90	162.85	158.45	152.65
22.5	.8858	.7495	6	2 5/8	10	3480225	199.05	22.302 - 23.089	247.45	215.40	204.70	199.35	194.00	189.60	183.25
23.0	.9055	.7495	6	2 5/8	10	3480230	199.05	-	-	-	-	-	-	-	-
23.5	.9252	.7495	8	2 5/8	10	3480235	199.05	23.090 - 23.901	247.45	215.40	204.70	199.35	194.00	189.60	183.25
24.0	.9449	.7495	8	2 5/8	10	3480240	207.60	23.902 - 24.689	256.05	224.00	213.25	208.00	202.45	198.05	191.80
24.5	.9646	.7495	8	2 5/8	10	3480245	207.60	-	-	-	-	-	-	-	-
25.0	.9843	.8745	8	2 3/4	10 1/2	3480250	207.60	24.690 - 25.476	256.05	224.00	213.25	208.00	202.45	198.05	191.80
25.5	1.0039	.8745	8	2 3/4	10 1/2	3480255	213.20	25.477 - 27.076	259.40	228.85	218.35	213.35	208.20	203.80	198.00
26.0	1.0236	.8745	8	2 3/4	10 1/2	3480260	213.20	-	-	-	-	-	-	-	-
27.0	1.0630	.8745	8	2 3/4	10 1/2	3480270	213.20	-	-	-	-	-	-	-	-
28.0	1.1024	.8745	8	2 7/8	11	3480280	229.05	27.077 - 28.651	275.35	244.80	234.35	229.20	224.25	219.85	213.85
29.0	1.1417	.9995	8	2 7/8	11	3480290	249.05	28.652 - 30.239	295.30	264.70	254.30	249.25	244.10	239.80	233.90
30.0	1.1811	.9995	8	2 7/8	11	3480300	249.05	-	-	-	-	-	-	-	-
31.0	1.2205	.9995	8	3	11 1/2	3480310	275.10	30.240 - 31.826	321.60	290.75	280.50	275.35	270.25	265.95	260.20
32.0	1.2598	.9995	8	3	11 1/2	3480320	275.10	31.827 - 33.414	321.60	290.75	280.50	275.35	270.25	265.95	260.20
33.0	1.2992	.9995	8	3	11 1/2	3480330	275.10	-	-	-	-	-	-	-	-
34.0	1.3386	.9995	8	3 1/4	12	3480340	278.95	33.415 - 35.001	325.25	294.55	284.25	279.20	274.15	269.75	263.85
35.0	1.3780	.9995	8	3 1/4	12	3480350	278.95	-	-	-	-	-	-	-	-
36.0	1.4173	.9995	8	3 1/4	12	3480360	306.10	35.002 - 36.589	352.30	321.70	311.15	306.35	301.10	296.90	290.90
37.0	1.4567	1.2495	8	3 1/2	12 1/2	3480370	363.40	36.590 - 38.176	409.70	379.00	368.65	363.55	358.40	354.25	348.35
38.0	1.4961	1.2495	8	3 1/2	12 1/2	3480380	363.40	-	-	-	-	-	-	-	-

CARBIDE TIPPED CHUCKING REAMERS FOR STEEL

TYPE 3480 - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE

Flute long carbide tips brazed to one piece hardened alloy steel bodies.
Straight polished flutes.

Designed and manufactured for reaming accurate holes in steel, tough steel alloys and cast steels. Steel grade carbide is used in a full flute design with special steel cutting geometry that results in excellent performance and maximum tool life. Fast cutting to close tolerance.



For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MAX SHANK DIAM.	NO. OF FLUTES	LENGTH		EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL			FLUTE	OVERALL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.1875	3/16	.1805	4	1 1/8	4 1/2	348006	\$86.40	.1770 - .2040	\$144.15	\$115.30	\$105.55	\$101.00	\$96.10	\$92.10
.2031	13/64	.1805	4	1 1/8	4 1/2	34802031	86.40	-	-	-	-	-	-	-
.2188	7/32	.2075	4	1 1/4	5	348007	86.40	.2041 - .2210	144.15	115.30	105.55	101.00	96.10	92.10
.2344	15/64	.2265	4	1 1/2	6	34802344	86.40	.2211 - .2380	144.15	115.30	105.55	101.00	96.10	92.10
.2500	1/4	.2405	4	1 1/2	6	348008	86.40	.2381 - .2530	144.15	115.30	105.55	101.00	96.10	92.10
.2656	17/64	.2485	4	1 1/2	6	34802656	88.30	-	-	-	-	-	-	-
.2812	9/32	.2485	4	1 1/2	6	348009	88.30	.2531 - .2840	146.05	117.25	107.45	102.95	97.90	94.10
.2969	19/64	.2792	4	1 1/2	6	34802969	88.30	-	-	-	-	-	-	-
.3125	5/16	.2792	4	1 1/2	6	348010	88.30	.2841 - .3150	146.05	117.25	107.45	102.95	97.90	94.10
.3281	21/64	.2792	4	1 1/2	6	34803281	91.55	-	-	-	-	-	-	-
.3438	11/32	.2792	4	1 1/2	6	348011	91.55	.3151 - .3470	149.40	120.30	110.70	106.05	101.25	97.30
.3594	23/64	.3105	4	1 3/4	7	34803594	91.55	-	-	-	-	-	-	-
.3750	3/8	.3105	4	1 3/4	7	348012	91.55	.3471 - .3780	149.40	120.30	110.70	106.05	101.25	97.30
.3906	25/64	.3105	4	1 3/4	7	34803906	96.10	-	-	-	-	-	-	-
.4062	13/32	.3105	4	1 3/4	7	348013	96.10	.3781 - .4090	153.70	124.90	115.20	110.60	105.55	101.70
.4219	27/64	.3730	6	1 3/4	7	34804219	111.30	-	-	-	-	-	-	-
.4375	7/16	.3730	6	1 3/4	7	348014	111.30	.4091 - .4410	169.05	140.10	130.50	125.85	120.95	117.05
.4531	29/64	.3730	6	1 3/4	7	34804531	112.25	-	-	-	-	-	-	-
.4688	15/32	.3730	6	1 3/4	7	348015	112.25	.4411 - .4720	170.20	141.05	131.55	126.95	121.85	118.00
.4844	31/64	.4355	6	2	8	34804844	120.30	-	-	-	-	-	-	-
.5000	1/2	.4355	6	2	8	348016	120.30	.4721 - .5030	182.25	151.30	140.90	135.95	130.65	126.50
.5156	33/64	.4355	6	2	8	34805156	123.75	-	-	-	-	-	-	-
.5312	17/32	.4355	6	2	8	348017	123.75	.5031 - .5340	185.65	154.60	144.15	139.35	134.05	129.80
.5469	35/64	.4355	6	2	8	34805469	123.75	-	-	-	-	-	-	-
.5625	9/16	.4355	6	2	8	348018	123.75	.5341 - .5660	185.65	154.60	144.15	139.35	134.05	129.80
.5781	37/64	.4355	6	2	8	34805781	128.45	-	-	-	-	-	-	-
.5938	19/32	.4355	6	2	8	348019	128.45	.5661 - .5970	190.35	159.45	148.95	144.00	138.75	134.55
.6094	39/64	.5615	6	2 1/4	9	34806094	128.45	-	-	-	-	-	-	-
.6250	5/8	.5615	6	2 1/4	9	348020	128.45	.5971 - .6280	190.35	159.45	148.95	144.00	138.75	134.55
.6406	41/64	.5615	6	2 1/4	9	34806406	130.85	-	-	-	-	-	-	-
.6562	21/32	.5615	6	2 1/4	9	348021	130.85	.6281 - .6590	192.85	161.80	151.35	146.45	141.05	137.00
.6719	43/64	.5615	6	2 1/4	9	34806719	130.85	-	-	-	-	-	-	-

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TOOL DIAMETER		MAX SHANK DIAM.	NO. OF FLUTES	LENGTH		EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL			FLUTE	OVERALL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.6875	11/16	.5615	6	2 1/4	9	348022	\$130.85	.6591 - .6910	\$192.85	\$161.80	\$151.35	\$146.45	141.05	\$137.00
.7031	45/64	.5615	6	2 1/4	9	34807031	136.85	-	-	-	-	-	-	-
.7188	23/32	.5615	6	2 1/4	9	348023	136.85	.6911 - .7220	198.75	167.60	157.45	152.50	147.10	142.90
.7344	47/64	.6245	6	2 1/2	9 1/2	34807344	136.85	-	-	-	-	-	-	-
.7500	3/4	.6245	6	2 1/2	9 1/2	348024	136.85	.7221 - .7530	198.75	167.60	157.45	152.50	147.10	142.90
.7656	49/64	.6245	6	2 1/2	9 1/2	34807656	141.65	-	-	-	-	-	-	-
.7812	25/32	.6245	6	2 1/2	9 1/2	348025	141.65	.7531 - .7840	203.35	172.35	162.00	156.95	151.75	147.50
.7969	51/64	.6245	6	2 1/2	9 1/2	34807969	141.65	-	-	-	-	-	-	-
.8125	13/16	.6245	6	2 1/2	9 1/2	348026	141.65	.7841 - .8160	203.35	172.35	162.00	156.95	151.75	147.50
.8281	53/64	.6245	6	2 1/2	9 1/2	34808281	147.25	-	-	-	-	-	-	-
.8438	27/32	.6245	6	2 1/2	9 1/2	348027	147.25	.8161 - .8470	209.05	177.95	167.60	162.85	157.55	153.25
.8594	55/64	.7495	6	2 5/8	10	34808594	147.25	-	-	-	-	-	-	-
.8750	7/8	.7495	6	2 5/8	10	348028	152.85	.8471 - .8780	216.90	184.75	174.05	168.90	163.30	159.00
.8906	57/64	.7495	6	2 5/8	10	34808906	177.90	-	-	-	-	-	-	-
.9062	29/32	.7495	6	2 5/8	10	348029	177.90	.8781 - .9090	242.15	210.00	199.05	194.00	188.45	184.10
.9219	59/64	.7495	8	2 5/8	10	34809219	177.90	-	-	-	-	-	-	-
.9375	15/16	.7495	8	2 5/8	10	348030	177.90	.9091 - .9410	242.15	210.00	199.05	194.00	188.45	184.10
.9531	61/64	.7495	8	2 5/8	10	34809531	186.45	-	-	-	-	-	-	-
.9688	31/32	.7495	8	2 5/8	10	348031	186.45	.9411 - .9720	250.70	218.55	207.60	202.45	197.00	192.65
.9844	63/64	.8745	8	2 3/4	10 1/2	34809844	186.45	-	-	-	-	-	-	-
1.0000	1	.8745	8	2 3/4	10 1/2	348032	186.45	.9721 - 1.0030	250.70	218.55	207.60	202.45	197.00	192.65
1.0625	1 1/16	.8745	8	2 3/4	10 1/2	348034	192.70	1.0031 - 1.0660	254.30	223.30	213.20	208.20	202.90	198.85
1.1250	1 1/8	.8745	8	2 7/8	11	348036	208.80	1.0661 - 1.1280	270.25	239.45	229.05	224.25	218.95	214.70
1.1875	1 3/16	.9995	8	2 7/8	11	348038	228.60	1.1281 - 1.1905	290.25	259.30	249.05	244.10	238.80	234.65
1.2500	1 1/4	.9995	8	3	11 1/2	348040	254.75	1.1906 - 1.2530	316.30	285.45	275.10	270.25	265.00	260.75
1.3125	1 5/16	.9995	8	3	11 1/2	348042	254.75	1.2531 - 1.3155	316.30	285.45	275.10	270.25	265.00	260.75
1.3750	1 3/8	.9995	8	3 1/4	12	348044	258.55	1.3156 - 1.3780	320.00	289.25	278.95	274.15	268.60	264.70
1.4375	1 7/16	.9995	8	3 1/4	12	348046	285.70	1.3781 - 1.4405	347.15	316.30	306.10	301.10	295.75	291.80
1.5000	1 1/2	1.2495	8	3 1/2	12 1/2	348048	343.00	1.4406 - 1.5030	404.55	373.70	363.40	358.40	353.30	349.05

*Quantities of 15 or more: price of fractional size in same size range.

CARBIDE TIPPED OVER & UNDER SIZE REAMERS FOR STEEL

TYPE 3488 - STRAIGHT SHANK STRAIGHT FLUTE LONG CARBIDE

These precision ground carbide tipped reamers are very convenient for finishing accurate holes in most steels.

Tool diameter tolerance: +.0002"/-.0000".

TOOL DIAMETER	MAX SHANK DIAM.	NO. OF FLUTES	LENGTH		TYPE 3488 EDP NO.	PRICE EACH
			FLUTE	OVERALL		
.1865	.1805	4	1 1/8	4 1/2	348818	\$108.05
.1885	.1805	4	1 1/8	4 1/2	348819	108.05
.2490	.2405	4	1 1/2	6	348824	108.05
.2510	.2405	4	1 1/2	6	348825	108.05
.3115	.2792	4	1 1/2	6	348831	110.00
.3135	.2792	4	1 1/2	6	348832	110.00
.3740	.3105	4	1 3/4	7	348837	113.15
.3760	.3105	4	1 3/4	7	348838	113.15
.4365	.3730	6	1 3/4	7	348843	133.00
.4385	.3730	6	1 3/4	7	348844	133.00
.4990	.4355	6	2	8	348849	143.55
.5010	.4355	6	2	8	348850	143.55
CASED SET OF ABOVE 12 REAMERS					348800	1360.10

CARBIDE TIPPED DOWEL PIN SIZE REAMERS FOR STEEL

TYPE 3486 - STRAIGHT SHANK STRAIGHT FLUTE LONG CARBIDE

These precision ground carbide tipped reamers accurately finish dowel pin holes in most steels. Should be used in pairs .0005" and .0020" under the fractional size. Note special undersize tolerance.

Tool diameter tolerance: +.0000"/-.0002".

TOOL DIAMETER	MAX SHANK DIAM.	NO. OF FLUTES	LENGTH		TYPE 3486 EDP NO.	PRICE EACH
			FLUTE	OVERALL		
.1855	.1805	4	1 1/8	4 1/2	348617	\$108.05
.1870	.1805	4	1 1/8	4 1/2	348618	108.05
.2480	.2405	4	1 1/2	6	348623	108.05
.2495	.2405	4	1 1/2	6	348624	108.05
.3105	.2792	4	1 1/2	6	348630	110.00
.3120	.2792	4	1 1/2	6	348631	110.00
.3730	.3105	4	1 3/4	7	348636	113.15
.3745	.3105	4	1 3/4	7	348637	113.15
.4355	.3730	6	1 3/4	7	348642	133.00
.4370	.3730	6	1 3/4	7	348643	133.00
.4980	.4355	6	2	8	348648	143.55
.4995	.4355	6	2	8	348649	143.55
CASED SET OF ABOVE 12 REAMERS					348600	1360.10

CARBIDE TIPPED CHUCKING REAMERS

TYPE 3452 - TAPER SHANK - STRAIGHT FLUTE LONG CARBIDE

Flute long carbide tips brazed to one piece hardened alloy steel bodies.
Straight polished flutes.

Designed and manufactured for maximum tool life. Used for all general reaming. Designed with flute long carbide for deep hole reaming.



For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MORSE TAPER	NO. OF FLUTES	LENGTH		EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRAC.			FLUTE	OVERALL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.2500	1/4	1	4	1 1/2	6	345208	\$82.95	.2381 - .2530	\$140.75	\$111.80	\$102.05	\$97.45	\$92.55	\$88.55
.2812	9/32	1	4	1 1/2	6	345209	84.00	.2531 - .2840	141.90	113.00	103.20	98.60	93.60	89.75
.3125	5/16	1	4	1 1/2	6	345210	84.00	.2841 - .3150	141.90	113.00	103.20	98.60	93.60	89.75
.3438	11/32	1	4	1 1/2	6	345211	85.95	.3151 - .3470	143.80	114.90	105.25	100.45	95.50	91.65
.3750	3/8	1	4	1 3/4	7	345212	86.95	.3471 - .3780	144.75	115.80	106.05	101.45	96.45	92.70
.4062	13/32	1	4	1 3/4	7	345213	91.55	.3781 - .4090	149.40	120.30	110.70	106.05	101.25	97.30
.4375	7/16	1	4	1 3/4	7	345214	97.50	.4091 - .4410	155.30	126.40	116.75	112.10	107.20	103.20
.4688	15/32	1	4	1 3/4	7	345215	99.55	.4411 - .4720	157.45	128.30	118.75	114.10	109.15	105.30
.5000	1/2	1	6	2	8	345216	107.35	.4721 - .5030	169.10	138.20	127.85	122.95	117.55	113.50
.5312	17/32	1	6	2	8	345217	117.55	.5031 - .5340	179.55	148.50	138.05	133.15	127.85	123.60
.5625	9/16	1	6	2	8	345218	117.55	.5341 - .5660	179.55	148.50	138.05	133.15	127.85	123.60
.5938	19/32	1	6	2	8	345219	123.00	.5661 - .5970	184.85	153.90	143.55	138.65	133.30	129.10
.6250	5/8	2	6	2	9	345220	123.00	.5971 - .6280	184.85	153.90	143.55	138.65	133.30	129.10
.6562	21/32	2	6	2	9	345221	125.25	.6281 - .6590	187.35	156.20	145.70	140.90	135.55	131.45
.6875	11/16	2	6	2	9	345222	125.25	.6591 - .6910	187.35	156.20	145.70	140.90	135.55	131.45
.7188	23/32	2	6	2	9	345223	127.10	.6911 - .7220	189.10	157.95	147.50	142.65	137.35	133.15
.7500	3/4	2	6	2	9 1/2	345224	131.10	.7221 - .7530	193.10	162.00	151.65	146.65	141.20	137.30
.7812	25/32	2	6	2	9 1/2	345225	132.15	.7531 - .7840	194.15	163.05	152.70	147.55	142.35	138.20
.8125	13/16	2	6	2	9 1/2	345226	135.25	.7841 - .8160	197.00	165.85	155.75	150.75	145.45	141.15
.8438	27/32	2	6	2	9 1/2	345227	141.05	.8161 - .8470	203.05	172.00	161.55	156.70	151.35	147.25
.8750	7/8	2	6	2 1/4	10	345228	146.50	.8471 - .8780	210.75	178.55	167.60	162.75	156.95	152.85
.9062	29/32	2	6	2 1/4	10	345229	164.95	.8781 - .9090	229.15	197.00	186.35	181.15	175.45	171.30
.9375	15/16	3	8	2 1/4	10	345230	171.60	.9091 - .9410	235.65	203.60	192.85	187.65	182.10	177.90
.9688	31/32	3	8	2 1/4	10	345231	178.65	.9411 - .9720	242.90	210.75	199.90	194.80	189.25	185.00
1.0000	1	3	8	2 1/4	10 1/2	345232	178.65	.9721 - 1.0030	242.90	210.75	199.90	194.80	189.25	185.00
1.0625	1 1/16	3	8	2 1/4	10 1/2	345234	244.85	1.0031 - 1.0660	306.40	275.40	265.15	260.35	255.00	250.85
1.1250	1 1/8	3	8	2 1/4	11	345236	263.70	1.0661 - 1.1280	325.25	294.40	284.20	279.20	273.80	269.75
1.1875	1 3/16	3	8	2 1/4	11	345238	283.35	1.1281 - 1.1905	344.90	314.05	303.75	298.75	293.65	289.30
1.2500	1 1/4	4	8	2 1/2	11 1/2	345240	301.10	1.1906 - 1.2530	362.60	331.80	321.60	316.45	311.15	307.10
1.3125	1 5/16	4	8	2 1/2	11 1/2	345242	339.95	1.2531 - 1.3155	401.50	370.80	360.25	355.55	350.20	346.00
1.3750	1 3/8	4	8	2 1/2	12	345244	388.50	1.3156 - 1.3780	449.95	419.20	408.75	403.95	398.55	394.50
1.4375	1 7/16	4	8	2 1/2	12	345246	405.45	1.3781 - 1.4405	467.05	436.20	425.85	421.10	415.65	411.50
1.5000	1 1/2	4	8	2 1/2	12 1/2	345248	422.40	1.4406 - 1.5030	483.90	453.20	442.85	437.95	432.60	428.45

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CARBIDE TIPPED CHUCKING REAMERS

METRIC

TYPE 3452 - TAPER SHANK - STRAIGHT FLUTE LONG CARBIDE

Detailed description and fractional sizes on page 80. Tolerances on page 60.
Tool diameter in millimeters with all other dimensions in inches.



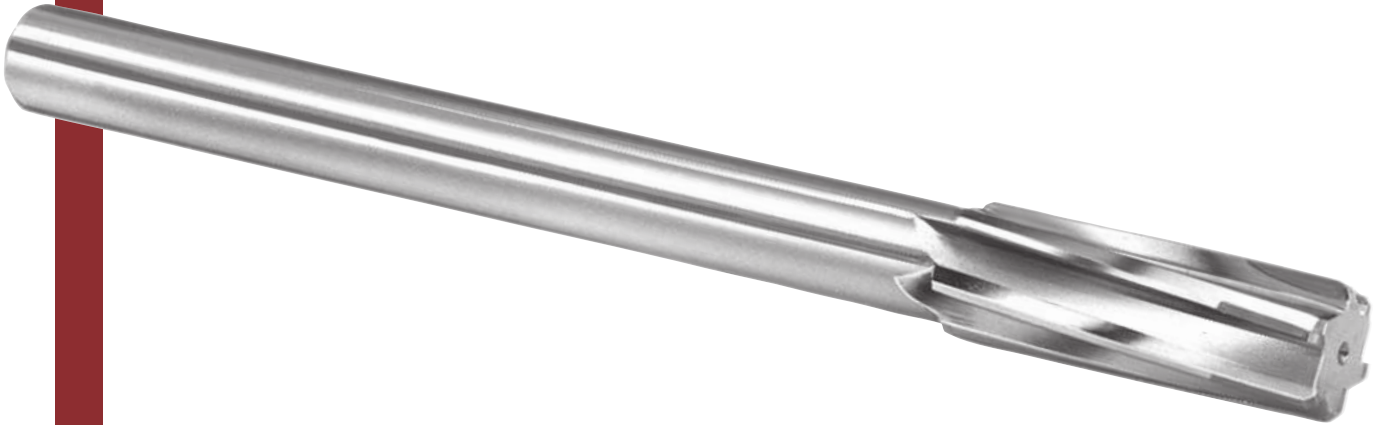
TOOL DIAMETER		MORSE TAPER	NO. OF FLTS.	LENGTH		EDP NO.	PRICE EACH	METRIC SIZE RANGE	PRICE EACH - FINISHED TO METRIC SIZE						
mm	INCH			FLUTE	OVERALL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
6.0	.2362	1	4	1 ½	6	3452060	\$102.05	6.000 - 6.426	\$145.55	\$116.75	\$107.15	\$102.30	\$97.45	\$93.45	\$87.90
6.5	.2559	1	4	1 ½	6	3452065	103.20	6.427 - 7.214	146.65	117.95	108.25	103.55	98.60	94.75	89.05
7.0	.2756	1	4	1 ½	6	3452070	103.20	-	-	-	-	-	-	-	-
7.5	.2953	1	4	1 ½	6	3452075	103.20	7.215 - 8.001	146.65	117.95	108.25	103.55	98.60	94.75	89.05
8.0	.3150	1	4	1 ½	6	3452080	103.20	-	-	-	-	-	-	-	-
8.5	.3346	1	4	1 ½	6	3452085	105.25	8.002 - 8.814	148.70	119.75	110.15	105.40	100.45	96.45	90.95
9.0	.3543	1	4	1 ¾	7	3452090	106.05	8.815 - 9.601	149.60	120.90	111.00	106.20	101.45	97.45	91.80
9.5	.3740	1	4	1 ¾	7	3452095	106.05	-	-	-	-	-	-	-	-
10.0	.3937	1	4	1 ¾	7	3452100	110.70	9.602 - 10.389	154.30	125.25	115.60	110.90	106.05	102.05	96.45
10.5	.4134	1	4	1 ¾	7	3452105	116.75	10.390 - 11.201	160.10	131.40	121.70	117.05	112.10	108.05	102.60
11.0	.4331	1	4	1 ¾	7	3452110	116.75	-	-	-	-	-	-	-	-
11.5	.4528	1	4	1 ¾	7	3452115	118.75	11.202 - 11.989	162.25	133.30	123.70	119.00	114.10	110.15	104.40
12.0	.4724	1	6	2	8	3452120	127.85	11.990 - 12.776	174.40	143.55	133.15	128.05	122.95	118.55	112.65
12.5	.4921	1	6	2	8	3452125	127.85	-	-	-	-	-	-	-	-
13.0	.5118	1	6	2	8	3452130	138.05	12.777 - 13.564	184.70	153.70	143.50	138.50	133.15	128.90	122.95
13.5	.5315	1	6	2	8	3452135	138.05	-	-	-	-	-	-	-	-
14.0	.5512	1	6	2	8	3452140	138.05	13.565 - 14.376	184.70	153.70	143.50	138.50	133.15	128.90	122.95
14.5	.5709	1	6	2	8	3452145	143.55	14.377 - 15.164	190.05	159.35	148.85	143.80	138.65	134.20	128.30
15.0	.5906	1	6	2	8	3452150	143.55	-	-	-	-	-	-	-	-
15.5	.6102	2	6	2	9	3452155	143.55	15.165 - 15.951	190.05	159.35	148.85	143.80	138.65	134.20	128.30
16.0	.6299	2	6	2	9	3452160	145.70	15.952 - 16.739	192.40	161.40	151.10	146.05	140.90	136.70	130.65
16.5	.6496	2	6	2	9	3452165	145.70	-	-	-	-	-	-	-	-
17.0	.6693	2	6	2	9	3452170	145.70	16.740 - 17.551	192.40	161.40	151.10	146.05	140.90	136.70	130.65
17.5	.6890	2	6	2	9	3452175	145.70	-	-	-	-	-	-	-	-
18.0	.7087	2	6	2	9	3452180	147.50	17.552 - 18.339	194.20	163.20	153.00	147.85	142.65	138.50	132.30
18.5	.7283	2	6	2	9 ½	3452185	151.65	18.340 - 19.126	198.30	167.30	156.85	151.80	146.65	142.35	136.55
19.0	.7480	2	6	2	9 ½	3452190	151.65	-	-	-	-	-	-	-	-
19.5	.7677	2	6	2	9 ½	3452195	152.70	19.127 - 19.914	199.20	168.45	157.95	153.00	147.55	143.50	137.45
20.0	.7874	2	6	2	9 ½	3452200	155.75	19.915 - 20.726	202.30	171.30	161.05	155.95	150.75	146.45	140.55
20.5	.8071	2	6	2	9 ½	3452205	155.75	-	-	-	-	-	-	-	-
21.0	.8268	2	6	2	9 ½	3452210	161.55	20.727 - 21.514	208.20	177.30	167.00	161.85	156.70	152.50	146.45
21.5	.8465	2	6	2	9 ½	3452215	161.55	-	-	-	-	-	-	-	-
22.0	.8661	2	6	2 ¼	10	3452220	161.55	21.515 - 22.301	208.20	177.30	167.00	161.85	156.70	152.50	146.45
22.5	.8858	2	6	2 ¼	10	3452225	186.35	22.302 - 23.089	234.60	202.45	191.70	186.50	181.15	176.70	170.65
23.0	.9055	2	6	2 ¼	10	3452230	186.35	-	-	-	-	-	-	-	-
23.5	.9252	3	8	2 ¼	10	3452235	192.85	23.090 - 23.901	241.15	209.05	198.45	193.10	187.65	183.20	177.05
24.0	.9449	3	8	2 ¼	10	3452240	199.90	23.902 - 24.689	248.25	216.15	205.50	200.25	194.80	190.35	184.10
24.5	.9646	3	8	2 ¼	10	3452245	199.90	-	-	-	-	-	-	-	-
25.0	.9843	3	8	2 ¼	10 ½	3452250	199.90	24.690 - 25.476	248.25	216.15	205.50	200.25	194.80	190.35	184.10
25.5	1.0039	3	8	2 ¼	10 ½	3452255	265.15	25.477 - 27.076	311.60	280.85	270.40	265.50	260.35	256.05	250.15
26.0	1.0236	3	8	2 ¼	10 ½	3452260	265.15	-	-	-	-	-	-	-	-
27.0	1.0630	3	8	2 ¼	10 ½	3452270	265.15	-	-	-	-	-	-	-	-
28.0	1.1024	3	8	2 ¼	11	3452280	284.20	27.077 - 28.651	330.45	299.75	289.30	284.35	279.20	274.90	269.05
29.0	1.1417	3	8	2 ¼	11	3452290	303.75	28.652 - 30.239	350.10	319.40	309.00	304.00	298.75	294.55	288.65
30.0	1.1811	3	8	2 ¼	11	3452300	303.75	-	-	-	-	-	-	-	-
31.0	1.2205	4	8	2 ½	11 ½	3452310	321.60	30.240 - 31.826	367.80	337.10	326.75	321.75	316.45	312.25	306.40
32.0	1.2598	4	8	2 ½	11 ½	3452320	360.25	31.827 - 33.414	406.80	375.90	365.75	360.60	355.55	351.10	345.20
33.0	1.2992	4	8	2 ½	11 ½	3452330	360.25	-	-	-	-	-	-	-	-
34.0	1.3386	4	8	2 ½	12	3452340	408.75	33.415 - 35.001	455.10	424.50	414.15	409.20	403.95	399.70	393.70
35.0	1.3780	4	8	2 ½	12	3452350	408.75	-	-	-	-	-	-	-	-
36.0	1.4173	4	8	2 ½	12	3452360	425.85	35.002 - 36.589	472.10	441.45	431.20	426.10	421.10	416.65	410.60
37.0	1.4567	4	8	2 ½	12 ½	3452370	442.85	36.590 - 38.176	489.20	458.35	448.10	443.25	437.95	433.70	427.80
38.0	1.4961	4	8	2 ½	12 ½	3452380	442.85	-	-	-	-	-	-	-	-

CARBIDE TIPPED RIGHT SPIRAL CHUCKING REAMERS

TYPE 3410 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES

Carbide tips brazed to one piece hardened alloy steel bodies. Right spiral polished flutes.

Designed and manufactured for maximum tool life. Right spiral flutes have greater chip clearing ability for use with ductile materials, highly abrasive materials or blind holes. Finishes are much better as spiral flutes tend to bridge interruptions such as keyways, slots or intersecting holes.



For metric sizes, see page 84.

For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		SHANK DIAM.	NO. OF FLUTES	LENGTH			EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL			FLT	CARB	OAL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.1875	3/16	11/64	4	1 1/8	1/2	4 1/2	341006	\$84.80	.1770 - .2040	\$139.95	\$112.25	\$103.05	\$98.60	\$93.90	\$90.25
.2188	7/32	13/64	4	1 1/4	1/2	5	341007	84.80	.2041 - .2210	139.95	112.25	103.05	98.60	93.90	90.25
.2344	15/64	7/32	4	1 1/2	1/2	6	34102344	84.80	.2211 - .2380	139.95	112.25	103.05	98.60	93.90	90.25
.2500	1/4	15/64	4	1 1/2	1/2	6	341008	84.80	.2381 - .2530	139.95	112.25	103.05	98.60	93.90	90.25
.2812	9/32	15/64	4	1 1/2	1/2	6	341009	85.15	.2531 - .2840	140.10	112.50	103.20	98.80	94.10	90.40
.3125	5/16	9/32	4	1 1/2	1/2	6	341010	85.15	.2841 - .3150	140.10	112.50	103.20	98.80	94.10	90.40
.3438	11/32	9/32	4	1 1/2	5/8	6	341011	93.60	.3151 - .3470	148.70	121.05	111.80	107.45	102.75	99.10
.3750	3/8	5/16	4	1 3/4	5/8	7	341012	94.50	.3471 - .3780	149.55	121.95	112.65	108.40	103.70	99.95
.4062	13/32	5/16	4	1 3/4	5/8	7	341013	98.75	.3781 - .4090	153.85	126.25	117.05	112.55	107.80	104.20
.4375	7/16	3/8	4	1 3/4	5/8	7	341014	102.75	.4091 - .4410	157.70	130.10	120.95	116.60	111.80	108.10
.4688	15/32	3/8	4	1 3/4	5/8	7	341015	109.00	.4411 - .4720	164.05	136.55	127.30	122.85	118.25	114.30
.5000	1/2	7/16	6	2	5/8	8	341016	113.15	.4721 - .5030	169.55	141.15	131.75	127.30	122.55	118.60
.5312	17/32	7/16	6	2	5/8	8	341017	116.60	.5031 - .5340	173.10	144.75	135.30	130.80	126.05	122.10
.5625	9/16	7/16	6	2	5/8	8	341018	116.60	.5341 - .5660	173.10	144.75	135.30	130.80	126.05	122.10
.5938	19/32	7/16	6	2	5/8	8	341019	120.05	.5661 - .5970	176.55	148.25	138.75	134.20	129.35	125.50
.6250	5/8	9/16	6	2 1/4	5/8	9	341020	120.05	.5971 - .6280	176.55	148.25	138.75	134.20	129.35	125.50
.6562	21/32	9/16	6	2 1/4	5/8	9	341021	123.45	.6281 - .6590	180.10	151.75	142.20	137.65	132.75	129.10
.6875	11/16	9/16	6	2 1/4	5/8	9	341022	131.55	.6591 - .6910	187.95	159.60	150.15	145.60	140.85	137.05
.7188	23/32	9/16	6	2 1/4	5/8	9	341023	133.30	.6911 - .7220	189.75	161.40	151.95	147.50	142.65	138.80
.7500	3/4	5/8	6	2 1/2	3/4	9 1/2	341024	135.40	.7221 - .7530	191.85	163.60	154.15	149.60	144.75	140.90
.7812	25/32	5/8	6	2 1/2	3/4	9 1/2	341025	138.80	.7531 - .7840	195.45	167.15	157.65	153.10	148.25	144.40
.8125	13/16	5/8	6	2 1/2	3/4	9 1/2	341026	138.80	.7841 - .8160	195.45	167.15	157.65	153.10	148.25	144.40
.8438	27/32	5/8	6	2 1/2	3/4	9 1/2	341027	146.45	.8161 - .8470	203.05	174.65	165.25	160.75	155.80	151.95
.8750	7/8	3/4	6	2 5/8	3/4	10	341028	151.95	.8471 - .8780	210.60	181.30	171.30	166.75	161.70	157.70
.9062	29/32	3/4	6	2 5/8	3/4	10	341029	177.05	.8781 - .9090	235.65	206.40	196.55	191.80	186.75	182.90
.9375	15/16	3/4	8	2 5/8	3/4	10	341030	177.05	.9091 - .9410	235.65	206.40	196.55	191.80	186.75	182.90
.9688	31/32	3/4	8	2 5/8	3/4	10	341031	185.65	.9411 - .9720	244.35	214.95	205.25	200.40	195.35	191.50
1.0000	1	7/8	8	2 3/4	3/4	10 1/2	341032	185.65	.9721 - 1.0030	244.35	214.95	205.25	200.40	195.35	191.50
1.0625	1 1/16	7/8	8	2 3/4	3/4	10 1/2	341034	199.20	1.0031 - 1.0660	257.85	228.45	218.70	213.85	208.90	204.95
1.1250	1 1/8	7/8	8	2 7/8	7/8	11	341036	205.40	1.0661 - 1.1280	263.90	234.65	224.75	220.05	215.00	211.15
1.1875	1 3/16	1	8	2 7/8	7/8	11	341038	215.85	1.1281 - 1.1905	274.45	245.00	235.20	230.45	225.50	221.50
1.2500	1 1/4	1	8	3	7/8	11 1/2	341040	228.40	1.1906 - 1.2530	287.00	257.55	247.80	243.15	238.05	234.20
1.3125	1 5/16	1	8	3	7/8	11 1/2	341042	252.65	1.2531 - 1.3155	311.40	282.05	272.00	267.45	262.40	258.50
1.3750	1 3/8	1	8	3 1/4	7/8	12	341044	276.90	1.3156 - 1.3780	335.50	306.20	296.35	291.75	286.60	282.65
1.4375	1 7/16	1 1/4	8	3 1/4	7/8	12	341046	293.35	1.3781 - 1.4405	352.00	322.60	312.75	308.20	303.10	299.05
1.5000	1 1/2	1 1/4	8	3 1/2	7/8	12 1/2	341048	309.90	1.4406 - 1.5030	368.45	339.05	329.40	324.50	319.65	315.65

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CARBIDE TIPPED LEFT SPIRAL CHUCKING REAMERS

TYPE 3420 - STRAIGHT SHANK - LEFT SPIRAL FLUTES

Carbide tips brazed to one piece hardened alloy steel bodies. Left spiral polished flutes.

Designed and manufactured for maximum tool life. Left spiral flutes should only be used on through holes for heat treated steels, hard cast iron and other hard materials. Finishes are much better as spiral flutes tend to bridge interruptions such as keyways, slots or intersecting holes.



For metric sizes, see page 84.

For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		SHANK DIAM.	NO. OF FLUTES	LENGTH			EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL			FLT	CARB	OAL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.1875	3/16	11/64	4	1 1/8	1/2	4 1/2	342006	\$84.80	.1770 - .2040	\$139.95	\$112.25	\$103.05	\$98.60	\$93.90	\$90.25
.2188	7/32	13/64	4	1 1/4	1/2	5	342007	84.80	.2041 - .2210	139.95	112.25	103.05	98.60	93.90	90.25
.2344	15/64	7/32	4	1 1/2	1/2	6	34202344	84.80	.2211 - .2380	139.95	112.25	103.05	98.60	93.90	90.25
.2500	1/4	15/64	4	1 1/2	1/2	6	342008	84.80	.2381 - .2530	139.95	112.25	103.05	98.60	93.90	90.25
.2812	9/32	15/64	4	1 1/2	1/2	6	342009	85.15	.2531 - .2840	140.10	112.50	103.20	98.80	94.10	90.40
.3125	5/16	9/32	4	1 1/2	1/2	6	342010	85.15	.2841 - .3150	140.10	112.50	103.20	98.80	94.10	90.40
.3438	11/32	9/32	4	1 1/2	5/8	6	342011	93.60	.3151 - .3470	148.70	121.05	111.80	107.45	102.75	99.10
.3750	3/8	5/16	4	1 3/4	5/8	7	342012	94.50	.3471 - .3780	149.55	121.95	112.65	108.40	103.70	99.95
.4062	13/32	5/16	4	1 3/4	5/8	7	342013	98.75	.3781 - .4090	153.85	126.25	117.05	112.55	107.80	104.20
.4375	7/16	3/8	4	1 3/4	5/8	7	342014	102.75	.4091 - .4410	157.70	130.10	120.95	116.60	111.80	108.10
.4688	15/32	3/8	4	1 3/4	5/8	7	342015	109.00	.4411 - .4720	164.05	136.55	127.30	122.85	118.25	114.30
.5000	1/2	7/16	6	2	5/8	8	342016	113.15	.4721 - .5030	169.55	141.15	131.75	127.30	122.55	118.60
.5312	17/32	7/16	6	2	5/8	8	342017	116.60	.5031 - .5340	173.10	144.75	135.30	130.80	126.05	122.10
.5625	9/16	7/16	6	2	5/8	8	342018	116.60	.5341 - .5660	173.10	144.75	135.30	130.80	126.05	122.10
.5938	19/32	7/16	6	2	5/8	8	342019	120.05	.5661 - .5970	176.55	148.25	138.75	134.20	129.35	125.50
.6250	5/8	9/16	6	2 1/4	5/8	9	342020	120.05	.5971 - .6280	176.55	148.25	138.75	134.20	129.35	125.50
.6562	21/32	9/16	6	2 1/4	5/8	9	342021	123.45	.6281 - .6590	180.10	151.75	142.20	137.65	132.75	129.10
.6875	11/16	9/16	6	2 1/4	5/8	9	342022	131.55	.6591 - .6910	187.95	159.60	150.15	145.60	140.85	137.05
.7188	23/32	9/16	6	2 1/4	5/8	9	342023	133.30	.6911 - .7220	189.75	161.40	151.95	147.50	142.65	138.80
.7500	3/4	5/8	6	2 1/2	3/4	9 1/2	342024	135.40	.7221 - .7530	191.85	163.60	154.15	149.60	144.75	140.90
.7812	25/32	5/8	6	2 1/2	3/4	9 1/2	342025	138.80	.7531 - .7840	195.45	167.15	157.65	153.10	148.25	144.40
.8125	13/16	5/8	6	2 1/2	3/4	9 1/2	342026	138.80	.7841 - .8160	195.45	167.15	157.65	153.10	148.25	144.40
.8438	27/32	5/8	6	2 1/2	3/4	9 1/2	342027	146.45	.8161 - .8470	203.05	174.65	165.25	160.75	155.80	151.95
.8750	7/8	3/4	6	2 5/8	3/4	10	342028	151.95	.8471 - .8780	210.60	181.30	171.30	166.75	161.70	157.70
.9062	29/32	3/4	6	2 5/8	3/4	10	342029	177.05	.8781 - .9090	235.65	206.40	196.55	191.80	186.75	182.90
.9375	15/16	3/4	8	2 5/8	3/4	10	342030	177.05	.9091 - .9410	235.65	206.40	196.55	191.80	186.75	182.90
.9688	31/32	3/4	8	2 5/8	3/4	10	342031	185.65	.9411 - .9720	244.35	214.95	205.25	200.40	195.35	191.50
1.0000	1	7/8	8	2 3/4	3/4	10 1/2	342032	185.65	.9721 - 1.0030	244.35	214.95	205.25	200.40	195.35	191.50
1.0625	1 1/16	7/8	8	2 3/4	3/4	10 1/2	342034	199.20	1.0031 - 1.0660	257.85	228.45	218.70	213.85	208.90	204.95
1.1250	1 1/8	7/8	8	2 7/8	7/8	11	342036	205.40	1.0661 - 1.1280	263.90	234.65	224.75	220.05	215.00	211.15
1.1875	1 3/16	1	8	2 7/8	7/8	11	342038	215.85	1.1281 - 1.1905	274.45	245.00	235.20	230.45	225.50	221.50
1.2500	1 1/4	1	8	3	7/8	11 1/2	342040	228.40	1.1906 - 1.2530	287.00	257.55	247.80	243.15	238.05	234.20
1.3125	1 5/16	1	8	3	7/8	11 1/2	342042	252.65	1.2531 - 1.3155	311.40	282.05	272.00	267.45	262.40	258.50
1.3750	1 3/8	1	8	3 1/4	7/8	12	342044	276.90	1.3156 - 1.3780	335.50	306.20	296.35	291.75	286.60	282.65
1.4375	1 7/16	1 1/4	8	3 1/4	7/8	12	342046	293.35	1.3781 - 1.4405	352.00	322.60	312.75	308.20	303.10	299.05
1.5000	1 1/2	1 1/4	8	3 1/2	7/8	12 1/2	342048	309.90	1.4406 - 1.5030	368.45	339.05	329.40	324.50	319.65	315.65

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*Quantities of 15 or more: price of fractional size in same size range.

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CARBIDE TIPPED SPIRAL CHUCKING REAMERS

TYPE 3410 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES

TYPE 3420 - STRAIGHT SHANK - LEFT SPIRAL FLUTES

Detailed description and fractional sizes on pages 82 & 83.
Tolerances on page 60. Tool diameter in millimeters
with all other dimensions in inches.



TOOL DIAMETER		SHANK DIAM.	NO. OF FLTS.	LENGTH			RIGHT SPIRAL TYPE 3410 EDP NO.	LEFT SPIRAL TYPE 3420 EDP NO.	BOTH TYPES PRICE	METRIC SIZE RANGE	PRICE EACH - FINISHED TO METRIC SIZE						
mm	INCH			FLT	CARB	OAL					1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
4.5	.1772	1/64	4	1 1/8	1/2	4 1/2	3410045	3420045	\$103.05	4.494 - 5.182	\$144.40	\$117.05	\$107.75	\$103.20	\$98.60	\$94.90	\$89.65
5.0	.1969	1/64	4	1 1/8	1/2	4 1/2	3410050	3420050	103.05	-	-	-	-	-	-	-	-
5.5	.2165	1/64	4	1 1/4	1/2	5	3410055	3420055	103.05	5.183 - 5.613	144.40	117.05	107.75	103.20	98.60	94.90	89.65
6.0	.2362	7/32	4	1 1/2	1/2	6	3410060	3420060	103.05	5.614 - 6.045	144.40	117.05	107.75	103.20	98.60	94.90	89.65
-	.2480	15/64	4	1 1/2	1/2	6	3410063	3420063	-	6.046 - 6.426	144.40	117.05	107.75	103.20	98.60	94.90	89.65
6.5	.2559	15/64	4	1 1/2	1/2	6	3410065	3420065	103.20	6.427 - 7.214	144.60	117.25	108.05	103.55	98.80	95.05	89.80
7.0	.2756	15/64	4	1 1/2	1/2	6	3410070	3420070	103.20	-	-	-	-	-	-	-	-
7.5	.2953	9/32	4	1 1/2	1/2	6	3410075	3420075	103.20	7.215 - 8.001	144.60	117.25	108.05	103.55	98.80	95.05	89.80
8.0	.3150	9/32	4	1 1/2	1/2	6	3410080	3420080	103.20	-	-	-	-	-	-	-	-
8.5	.3346	9/32	4	1 1/2	5/8	6	3410085	3420085	111.80	8.002 - 8.814	153.15	125.80	116.60	112.10	107.45	103.70	98.35
9.0	.3543	5/16	4	1 3/4	5/8	7	3410090	3420090	112.65	8.815 - 9.601	154.15	126.65	117.40	112.80	108.40	104.40	99.25
9.5	.3740	5/16	4	1 3/4	5/8	7	3410095	3420095	112.65	-	-	-	-	-	-	-	-
10.0	.3937	5/16	4	1 3/4	5/8	7	3410100	3420100	117.05	9.602 - 10.389	158.45	130.95	121.80	117.25	112.55	108.80	103.55
10.5	.4134	3/8	4	1 3/4	5/8	7	3410105	3420105	120.95	10.390 - 11.201	162.30	134.95	125.65	121.10	116.60	112.65	107.45
11.0	.4331	3/8	4	1 3/4	5/8	7	3410110	3420110	120.95	-	-	-	-	-	-	-	-
11.5	.4528	3/8	4	1 3/4	5/8	7	3410115	3420115	127.30	11.202 - 11.989	168.75	141.15	132.05	127.45	122.85	119.00	113.80
12.0	.4724	7/16	6	2	5/8	8	3410120	3420120	131.75	11.990 - 12.776	174.25	146.20	136.70	132.05	127.30	123.40	117.95
12.5	.4921	7/16	6	2	5/8	8	3410125	3420125	131.75	-	-	-	-	-	-	-	-
13.0	.5118	7/16	6	2	5/8	8	3410130	3420130	135.30	12.777 - 13.564	177.80	149.60	140.15	135.55	130.80	126.95	121.50
13.5	.5315	7/16	6	2	5/8	8	3410135	3420135	135.30	-	-	-	-	-	-	-	-
14.0	.5512	7/16	6	2	5/8	8	3410140	3420140	135.30	13.565 - 14.376	177.80	149.60	140.15	135.55	130.80	126.95	121.50
14.5	.5709	7/16	6	2	5/8	8	3410145	3420145	138.75	14.377 - 15.164	181.20	153.10	143.55	138.90	134.20	130.40	124.90
15.0	.5906	7/16	6	2	5/8	8	3410150	3420150	138.75	-	-	-	-	-	-	-	-
15.5	.6102	9/16	6	2 1/4	5/8	9	3410155	3420155	138.75	15.165 - 15.951	181.20	153.10	143.55	138.90	134.20	130.40	124.90
16.0	.6299	9/16	6	2 1/4	5/8	9	3410160	3420160	142.20	15.952 - 16.739	184.70	156.50	147.10	142.35	137.65	133.90	128.35
16.5	.6496	9/16	6	2 1/4	5/8	9	3410165	3420165	142.20	-	-	-	-	-	-	-	-
17.0	.6693	9/16	6	2 1/4	5/8	9	3410170	3420170	150.15	16.740 - 17.551	192.65	164.50	155.05	150.45	145.60	141.85	136.25
17.5	.6890	9/16	6	2 1/4	5/8	9	3410175	3420175	150.15	-	-	-	-	-	-	-	-
18.0	.7087	9/16	6	2 1/4	5/8	9	3410180	3420180	151.95	17.552 - 18.339	194.50	166.30	156.85	152.25	147.50	143.55	138.20
18.5	.7283	5/8	6	2 1/2	3/4	9 1/2	3410185	3420185	154.15	18.340 - 19.126	196.55	168.50	158.90	154.30	149.60	145.60	140.30
19.0	.7480	5/8	6	2 1/2	3/4	9 1/2	3410190	3420190	154.15	-	-	-	-	-	-	-	-
19.5	.7677	5/8	6	2 1/2	3/4	9 1/2	3410195	3420195	157.65	19.127 - 19.914	200.20	171.90	162.40	157.80	153.10	149.10	143.80
20.0	.7874	5/8	6	2 1/2	3/4	9 1/2	3410200	3420200	157.65	19.915 - 20.726	200.20	171.90	162.40	157.80	153.10	149.10	143.80
20.5	.8071	5/8	6	2 1/2	3/4	9 1/2	3410205	3420205	157.65	-	-	-	-	-	-	-	-
21.0	.8268	5/8	6	2 1/2	3/4	9 1/2	3410210	3420210	165.25	20.727 - 21.514	207.75	179.55	170.10	165.50	160.75	156.80	151.30
21.5	.8465	5/8	6	2 1/2	3/4	9 1/2	3410215	3420215	165.25	-	-	-	-	-	-	-	-
22.0	.8661	3/4	6	2 5/8	3/4	10	3410220	3420220	165.25	21.515 - 22.301	207.75	179.55	170.10	165.50	160.75	156.80	151.30
22.5	.8858	3/4	6	2 5/8	3/4	10	3410225	3420225	196.55	22.302 - 23.089	240.55	211.40	201.45	196.80	191.80	187.70	182.10
23.0	.9055	3/4	6	2 5/8	3/4	10	3410230	3420230	196.55	-	-	-	-	-	-	-	-
23.5	.9252	3/4	8	2 5/8	3/4	10	3410235	3420235	196.55	23.090 - 23.901	240.55	211.40	201.45	196.80	191.80	187.70	182.10
24.0	.9449	3/4	8	2 5/8	3/4	10	3410240	3420240	205.25	23.902 - 24.689	249.25	219.90	210.15	205.40	200.40	196.35	190.80
24.5	.9646	3/4	8	2 5/8	3/4	10	3410245	3420245	205.25	-	-	-	-	-	-	-	-
25.0	.9843	7/8	8	2 3/4	3/4	10 1/2	3410250	3420250	205.25	24.690 - 25.476	249.25	219.90	210.15	205.40	200.40	196.35	190.80
25.5	1.0039	7/8	8	2 3/4	3/4	10 1/2	3410255	3420255	218.70	25.477 - 27.076	262.80	233.55	223.80	218.95	213.85	209.95	204.25
26.0	1.0236	7/8	8	2 3/4	3/4	10 1/2	3410260	3420260	218.70	-	-	-	-	-	-	-	-
27.0	1.0630	7/8	8	2 3/4	3/4	10 1/2	3410270	3420270	218.70	-	-	-	-	-	-	-	-
28.0	1.1024	7/8	8	2 7/8	7/8	11	3410280	3420280	224.75	27.077 - 28.651	268.90	239.65	230.00	225.05	220.05	216.00	210.30
29.0	1.1417	1	8	2 7/8	7/8	11	3410290	3420290	235.20	28.652 - 30.239	279.40	250.10	240.35	235.50	230.45	226.40	220.85
30.0	1.1811	1	8	2 7/8	7/8	11	3410300	3420300	235.20	-	-	-	-	-	-	-	-
31.0	1.2205	1	8	3	7/8	11 1/2	3410310	3420310	247.80	30.240 - 31.826	291.90	262.65	252.80	248.05	243.15	238.95	233.45
32.0	1.2598	1	8	3	7/8	11 1/2	3410320	3420320	272.00	31.827 - 33.414	316.25	287.00	277.15	272.40	267.45	263.45	257.70
33.0	1.2992	1	8	3	7/8	11 1/2	3410330	3420330	272.00	-	-	-	-	-	-	-	-
34.0	1.3386	1	8	3 1/4	7/8	12	3410340	3420340	296.35	33.415 - 35.001	340.60	311.15	301.40	296.60	291.75	287.60	282.05
35.0	1.3780	1	8	3 1/4	7/8	12	3410350	3420350	296.35	-	-	-	-	-	-	-	-
36.0	1.4173	1 1/4	8	3 1/4	7/8	12	3410360	3420360	312.75	35.002 - 36.589	356.90	327.55	317.80	313.00	308.20	304.00	298.30
37.0	1.4567	1 1/4	8	3 1/2	7/8	12 1/2	3410370	3420370	329.40	36.590 - 38.176	373.30	344.20	334.40	329.55	324.50	320.55	314.85
38.0	1.4961	1 1/4	8	3 1/2	7/8	12 1/2	3410380	3420380	329.40	-	-	-	-	-	-	-	-

CARBIDE TIPPED SPIRAL CHUCKING REAMERS

TYPE 3412 - TAPER SHANK - RIGHT SPIRAL FLUTES

Carbide tips brazed to one piece hardened alloy steel bodies. Right spiral polished flutes.

Designed and manufactured for maximum tool life. Right spiral flutes have greater chip clearing ability for use with ductile materials, highly abrasive materials or blind holes.

Finishes are much better as spiral flutes tend to bridge interruptions such as keyways, slots or intersecting holes.



TYPE 3422 - TAPER SHANK - LEFT SPIRAL FLUTES

Carbide tips brazed to one piece hardened alloy steel bodies. Left spiral polished flutes.

Designed and manufactured for maximum tool life. Left spiral flutes should only be used on through holes for heat treated steels, hard cast iron and other hard materials. Finishes are much better as spiral flutes tend to bridge interruptions such as keyways, slots or intersecting holes.



For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MORSE TAPER	NO. OF FLUTES	LENGTH			RT. SPIRAL TYPE 3412 EDP NO.	LEFT SPIRAL TYPE 3422 EDP NO.	BOTH TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL			FLT	CARB	OAL					1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.2500	1/4	1	4	1 1/2	1/2	6	341208	342208	\$89.00	.2381 - .2530	\$143.10	\$115.90	\$106.95	\$102.60	\$97.90	\$94.25
.2812	9/32	1	4	1 1/2	1/2	6	341209	342209	89.00	.2531 - .2840	143.10	115.90	106.95	102.60	97.90	94.25
.3125	5/16	1	4	1 1/2	1/2	6	341210	342210	90.95	.2841 - .3150	145.25	117.95	108.85	104.40	99.85	96.15
.3438	11/32	1	4	1 1/2	5/8	6	341211	342211	92.55	.3151 - .3470	146.60	119.50	110.55	106.05	101.45	97.85
.3750	3/8	1	4	1 3/4	5/8	7	341212	342212	93.80	.3471 - .3780	148.00	121.05	111.80	107.50	102.90	99.25
.4062	13/32	1	4	1 3/4	5/8	7	341213	342213	98.35	.3781 - .4090	152.70	125.40	116.40	112.10	107.35	103.80
.4375	7/16	1	4	1 3/4	5/8	7	341214	342214	102.65	.4091 - .4410	156.80	129.75	120.60	116.20	111.60	107.95
.4688	15/32	1	4	1 3/4	5/8	7	341215	342215	106.80	.4411 - .4720	160.90	133.65	124.65	120.20	115.60	112.05
.5000	1/2	1	6	2	5/8	8	341216	342216	122.95	.4721 - .5030	180.60	151.65	142.00	137.45	132.55	128.60
.5312	17/32	1	6	2	5/8	8	341217	342217	126.20	.5031 - .5340	183.95	155.00	145.40	140.75	135.70	131.75
.5625	9/16	1	6	2	5/8	8	341218	342218	126.20	.5341 - .5660	183.95	155.00	145.40	140.75	135.70	131.75
.5938	19/32	1	6	2	5/8	8	341219	342219	131.10	.5661 - .5970	188.90	159.80	150.20	145.60	140.75	136.85
.6250	5/8	2	6	2 1/4	5/8	9	341220	342220	131.10	.5971 - .6280	188.90	159.80	150.20	145.60	140.75	136.85
.6875	11/16	2	6	2 1/4	5/8	9	341222	342222	143.85	.6591 - .6910	201.65	172.60	163.05	158.45	153.40	149.60
.7500	3/4	2	6	2 1/2	3/4	9 1/2	341224	342224	152.20	.7221 - .7530	209.85	181.05	171.15	166.70	161.70	157.80
.8125	13/16	2	6	2 1/2	3/4	9 1/2	341226	342226	158.55	.7841 - .8160	216.35	187.40	177.60	173.10	168.05	164.15
.8750	7/8	2	6	2 5/8	3/4	10	341228	342228	170.70	.8471 - .8780	230.65	200.50	190.50	185.75	180.60	176.60
.9375	15/16	3	8	2 5/8	3/4	10	341230	342230	198.55	.9091 - .9410	258.50	228.45	218.35	213.50	208.35	204.40
1.0000	1	3	8	2 3/4	3/4	10 1/2	341232	342232	205.40	.9721 - 1.0030	265.20	235.20	225.20	220.45	215.30	211.25

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*Quantities of 15 or more: price of fractional size in same size range.

Made in U.S.A.

CARBIDE TIPPED EXPANSION CHUCKING REAMERS

TYPE 3465 - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE

Flute long carbide tips braze to one piece alloy steel bodies. Straight polished flutes.

Designed and manufactured for maximum tool life. Expansion reamers are recommended for reaming abrasive materials and as the diameter wears down, the reamers can be expanded many times by tightening the end adjusting screw and regrinding to its original size. Expansion reamers should not be considered as adjustable for use in producing holes of several sizes.

TOOL DIAMETER	MINIMUM EXPANSION
5/16" - 15/32"	.006"
1/2" - 31/32"	.010"
1" - 1 1/2"	.013"
1 9/16" - 2 1/2"	.015"



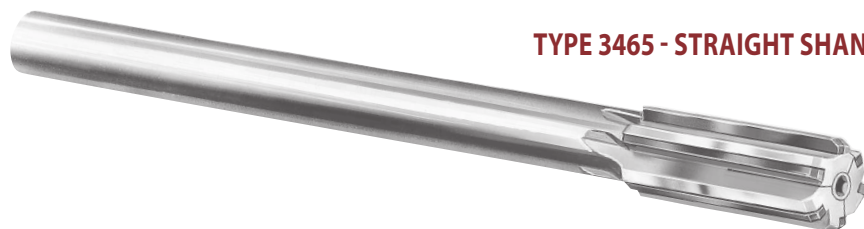
For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		SHANK DIAM.	NO. OF FLUTES	LENGTH		EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL			FLT	OAL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.3125	5/16	5/32	4	1	6	346510	\$111.05	.2841 - .3150	\$168.95	\$140.00	\$130.10	\$125.80	\$120.90	\$116.90
.3438	11/32	5/32	4	1	6	346511	111.05	.3151 - .3470	168.95	140.00	130.10	125.80	120.90	116.90
.3750	3/8	5/16	4	1	7	346512	104.20	.3471 - .3780	158.45	131.25	122.00	117.80	113.15	109.45
.4062	13/32	5/16	4	1	7	346513	110.60	.3781 - .4090	164.65	137.50	128.45	124.15	119.50	115.80
.4375	7/16	3/8	4	1	7	346514	110.60	.4091 - .4410	164.65	137.50	128.45	124.15	119.50	115.80
.4688	15/32	3/8	4	1	7	346515	117.25	.4411 - .4720	171.15	144.10	135.15	130.80	126.20	122.60
.5000	1/2	7/16	6	1	8	346516	117.25	.4721 - .5030	171.15	144.10	135.15	130.80	126.20	122.60
.5312	17/32	7/16	6	1	8	346517	120.05	.5031 - .5340	174.35	147.20	138.05	133.80	129.10	125.40
.5625	9/16	7/16	6	1 1/8	8	346518	120.05	.5341 - .5660	174.35	147.20	138.05	133.80	129.10	125.40
.5938	19/32	7/16	6	1 1/8	8	346519	125.35	.5661 - .5970	179.55	152.50	143.40	139.05	134.35	130.70
.6250	5/8	9/16	6	1 1/4	9	346520	125.35	.5971 - .6280	179.55	152.50	143.40	139.05	134.35	130.70
.6562	21/32	9/16	6	1 1/4	9	346521	137.15	.6281 - .6590	191.20	164.05	155.05	150.75	146.05	142.35
.6875	11/16	9/16	6	1 1/4	9	346522	137.15	.6591 - .6910	191.20	164.05	155.05	150.75	146.05	142.35
.7188	23/32	9/16	6	1 1/4	9	346523	142.15	.6911 - .7220	196.40	169.10	160.05	155.80	151.10	147.50
.7500	3/4	5/8	6	1 3/8	9 1/2	346524	142.15	.7221 - .7530	196.40	169.10	160.05	155.80	151.10	147.50
.7812	25/32	5/8	6	1 3/8	9 1/2	346525	153.25	.7531 - .7840	207.45	180.30	171.10	166.90	162.25	158.60
.8125	13/16	5/8	6	1 3/8	9 1/2	346526	153.25	.7841 - .8160	207.45	180.30	171.10	166.90	162.25	158.60
.8438	27/32	5/8	6	1 3/8	9 1/2	346527	159.35	.8161 - .8470	213.35	186.35	177.20	172.80	168.35	164.60
.8750	7/8	3/4	6	1 1/2	10	346528	165.35	.8471 - .8780	221.35	193.30	183.80	179.45	174.55	170.80
.9062	29/32	3/4	6	1 1/2	10	346529	175.90	.8781 - .9090	232.15	203.90	194.60	190.15	185.30	181.45
.9375	15/16	3/4	8	1 1/2	10	346530	175.90	.9091 - .9410	232.15	203.90	194.60	190.15	185.30	181.45
.9688	31/32	3/4	8	1 1/2	10	346531	182.90	.9411 - .9720	238.90	210.85	201.30	196.95	192.00	188.25
1.0000	1	7/8	8	1 5/8	10 1/2	346532	182.90	.9721 - 1.0030	238.90	210.85	201.30	196.95	192.00	188.25
1.0312	1 1/32	7/8	8	1 5/8	10 1/2	346533	200.35	-	-	-	-	-	-	-
1.0625	1 1/16	7/8	8	1 5/8	10 1/2	346534	200.35	1.0031 - 1.0660	256.50	228.40	218.95	214.50	209.65	205.80
1.0938	1 3/32	7/8	8	1 3/4	11	346535	200.35	-	-	-	-	-	-	-
1.1250	1 1/8	7/8	8	1 3/4	11	346536	200.35	1.0661 - 1.1280	256.50	228.40	218.95	214.50	209.65	205.80
1.1875	1 3/16	1	8	1 3/4	11	346538	218.65	1.1281 - 1.1905	274.80	246.60	237.15	232.70	227.80	224.25
1.2500	1 1/4	1	8	1 7/8	11 1/2	346540	218.65	1.1906 - 1.2530	274.80	246.60	237.15	232.70	227.80	224.25
1.3125	1 5/16	1	8	1 7/8	11 1/2	346542	242.30	1.2531 - 1.3155	298.60	270.40	261.10	256.50	251.65	248.05
1.3750	1 3/8	1	8	2	12	346544	253.80	1.3156 - 1.3780	309.95	281.75	272.40	268.10	263.00	259.30
1.4375	1 7/16	1 1/4	8	2	12	346546	299.90	1.3781 - 1.4405	359.85	329.75	319.70	314.85	309.75	305.80
1.5000	1 1/2	1 1/4	8	2 1/8	12 1/2	346548	308.60	1.4406 - 1.5030	368.65	338.45	328.55	323.85	318.65	314.50
1.5625	1 9/16	1 1/4	8	2 1/8	12 1/2	346550	405.35	1.5031 - 1.5660	465.25	435.40	425.10	420.25	415.25	411.20
1.6250	1 5/8	1 1/4	8	2 1/4	13	346552	405.35	1.5661 - 1.6280	465.25	435.40	425.10	420.25	415.25	411.20
1.6875	1 11/16	1 1/4	8	2 1/4	13	346554	448.90	1.6281 - 1.6910	508.85	478.75	468.85	463.95	458.95	454.75
1.7500	1 3/4	1 1/4	10	2 3/8	13 1/2	346556	448.90	1.6911 - 1.7530	508.85	478.75	468.85	463.95	458.95	454.75
1.8125	1 13/16	1 1/2	10	2 3/8	13 1/2	346558	531.60	1.7531 - 1.8160	591.40	561.40	551.45	546.60	541.50	537.45
1.8750	1 7/8	1 1/2	10	2 1/2	14	346560	531.60	1.8161 - 1.8780	591.40	561.40	551.45	546.60	541.50	537.45
1.9375	1 15/16	1 1/2	10	2 1/2	14	346562	580.85	1.8781 - 1.9410	640.65	610.70	600.55	595.75	590.75	586.60
2.0000	2	1 1/2	12	2 1/2	14	346564	580.85	1.9411 - 2.0030	640.65	610.70	600.55	595.75	590.75	586.60
2.1250	2 1/8	1 1/2	12	2 3/4	14 1/2	346568	943.35	2.0031 - 2.1280	1003.30	973.25	963.20	958.55	953.30	949.15
2.2500	2 1/4	1 3/4	12	2 3/4	14 1/2	346572	1013.20	2.1281 - 2.2530	1072.90	1043.00	1032.90	1028.15	1023.00	1018.95
2.3750	2 3/8	1 3/4	12	3	15	346576	1048.40	2.2531 - 2.3780	1108.45	1078.45	1068.30	1063.45	1058.40	1054.25
2.5000	2 1/2	1 3/4	12	3	15	346580	1048.40	2.3781 - 2.5030	1108.45	1078.45	1068.30	1063.45	1058.40	1054.25

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CARBIDE TIPPED EXPANSION CHUCKING REAMERS

METRIC



TYPE 3465 - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE

Detailed description and fractional sizes on page 86. Tolerances on page 60. Tool diameter in millimeters with all other dimensions in inches.

TOOL DIAMETER		SHANK DIAM.	NO. OF FLTS.	LENGTH		EDP NO.	PRICE EACH	METRIC SIZE RANGE	PRICE EACH - FINISHED TO METRIC SIZE						
mm	INCH			FLUTE	OVERALL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
7.5	.2953	5/32	4	1	6	3465075	\$130.10	7.215 - 8.001	\$173.90	\$144.95	\$135.25	\$130.65	\$125.80	\$121.70	116.05
8.0	.3150	5/32	4	1	6	3465080	130.10	-	-	-	-	-	-	-	-
8.5	.3346	5/32	4	1	6	3465085	130.10	8.002 - 8.814	173.90	144.95	135.25	130.65	125.80	121.70	116.05
9.0	.3543	5/16	4	1	7	3465090	122.00	8.815 - 9.601	163.00	135.85	126.70	122.55	117.80	114.10	108.85
9.5	.3740	5/16	4	1	7	3465095	122.00	-	-	-	-	-	-	-	-
10.0	.3937	5/16	4	1	7	3465100	128.45	9.602 - 10.389	169.10	142.15	133.15	128.65	124.15	120.30	115.20
10.5	.4134	3/8	4	1	7	3465105	128.45	10.390 - 11.201	169.10	142.15	133.15	128.65	124.15	120.30	115.20
11.0	.4331	3/8	4	1	7	3465110	128.45	-	-	-	-	-	-	-	-
11.5	.4528	3/8	4	1	7	3465115	135.15	11.202 - 11.989	175.75	148.85	139.65	135.30	130.80	127.00	121.80
12.0	.4724	7/16	6	1	8	3465120	135.15	11.990 - 12.776	175.75	148.85	139.65	135.30	130.80	127.00	121.80
12.5	.4921	7/16	6	1	8	3465125	135.15	-	-	-	-	-	-	-	-
13.0	.5118	7/16	6	1	8	3465130	138.05	12.777 - 13.564	178.85	151.80	142.75	138.40	133.80	129.95	124.80
13.5	.5315	7/16	6	1	8	3465135	138.05	-	-	-	-	-	-	-	-
14.0	.5512	7/16	6	1 1/8	8	3465140	138.05	13.565 - 14.376	178.85	151.80	142.75	138.40	133.80	129.95	124.80
14.5	.5709	7/16	6	1 1/8	8	3465145	143.40	14.377 - 15.164	184.10	156.95	147.95	143.55	139.05	135.25	129.95
15.0	.5906	7/16	6	1 1/8	8	3465150	143.40	-	-	-	-	-	-	-	-
15.5	.6102	9/16	6	1 1/4	9	3465155	143.40	15.165 - 15.951	184.10	156.95	147.95	143.55	139.05	135.25	129.95
16.0	.6299	9/16	6	1 1/4	9	3465160	155.05	15.952 - 16.739	195.75	168.80	159.65	155.20	150.75	147.05	141.85
16.5	.6496	9/16	6	1 1/4	9	3465165	155.05	-	-	-	-	-	-	-	-
17.0	.6693	9/16	6	1 1/4	9	3465170	155.05	16.740 - 17.551	195.75	168.80	159.65	155.20	150.75	147.05	141.85
17.5	.6890	9/16	6	1 1/4	9	3465175	155.05	-	-	-	-	-	-	-	-
18.0	.7087	9/16	6	1 1/4	9	3465180	160.05	17.552 - 18.339	200.95	173.90	164.75	160.40	155.80	152.10	146.90
18.5	.7283	5/8	6	1 3/8	9 1/2	3465185	160.05	18.340 - 19.126	200.95	173.90	164.75	160.40	155.80	152.10	146.90
19.0	.7480	5/8	6	1 3/8	9 1/2	3465190	160.05	-	-	-	-	-	-	-	-
19.5	.7677	5/8	6	1 3/8	9 1/2	3465195	171.10	19.127 - 19.914	212.05	185.00	175.75	171.30	166.90	163.15	157.85
20.0	.7874	5/8	6	1 3/8	9 1/2	3465200	171.10	19.915 - 20.726	212.05	185.00	175.75	171.30	166.90	163.15	157.85
20.5	.8071	5/8	6	1 3/8	9 1/2	3465205	171.10	-	-	-	-	-	-	-	-
21.0	.8268	5/8	6	1 3/8	9 1/2	3465210	177.20	20.727 - 21.514	217.95	190.95	181.80	177.45	172.80	169.05	163.90
21.5	.8465	5/8	6	1 3/8	9 1/2	3465215	177.20	-	-	-	-	-	-	-	-
22.0	.8661	3/4	6	1 1/2	10	3465220	177.20	21.515 - 22.301	217.95	190.95	181.80	177.45	172.80	169.05	163.90
22.5	.8858	3/4	6	1 1/2	10	3465225	194.60	22.302 - 23.089	236.85	208.90	199.35	194.80	190.15	186.30	180.75
23.0	.9055	3/4	6	1 1/2	10	3465230	194.60	-	-	-	-	-	-	-	-
23.5	.9252	3/4	8	1 1/2	10	3465235	194.60	23.090 - 23.901	236.85	208.90	199.35	194.80	190.15	186.30	180.75
24.0	.9449	3/4	8	1 1/2	10	3465240	201.30	23.902 - 24.689	243.65	215.60	206.30	201.55	196.95	192.95	187.55
24.5	.9646	3/4	8	1 1/2	10	3465245	201.30	-	-	-	-	-	-	-	-
25.0	.9843	7/8	8	1 5/8	10 1/2	3465250	201.30	24.690 - 25.476	243.65	215.60	206.30	201.55	196.95	192.95	187.55
25.5	1.0039	7/8	8	1 5/8	10 1/2	3465255	218.95	25.477 - 27.076	261.25	233.25	223.70	219.10	214.50	210.55	205.10
26.0	1.0236	7/8	8	1 5/8	10 1/2	3465260	218.95	-	-	-	-	-	-	-	-
27.0	1.0630	7/8	8	1 5/8	10 1/2	3465270	218.95	-	-	-	-	-	-	-	-
28.0	1.1024	7/8	8	1 3/4	11	3465280	218.95	27.077 - 28.651	261.25	233.25	223.70	219.10	214.50	210.55	205.10
29.0	1.1417	1	8	1 3/4	11	3465290	237.15	28.652 - 30.239	279.50	251.45	242.05	237.30	232.70	228.90	223.30
30.0	1.1811	1	8	1 3/4	11	3465300	237.15	-	-	-	-	-	-	-	-
31.0	1.2205	1	8	1 7/8	11 1/2	3465310	237.15	30.240 - 31.826	279.50	251.45	242.05	237.30	232.70	228.90	223.30
32.0	1.2598	1	8	1 7/8	11 1/2	3465320	261.10	31.827 - 33.414	303.25	275.20	265.90	261.25	256.50	252.65	247.30
33.0	1.2992	1	8	1 7/8	11 1/2	3465330	261.10	-	-	-	-	-	-	-	-
34.0	1.3386	1	8	2	12	3465340	272.40	33.415 - 35.001	314.65	286.60	277.15	272.70	268.10	264.00	258.55
35.0	1.3780	1	8	2	12	3465350	272.40	-	-	-	-	-	-	-	-
36.0	1.4173	1 1/4	8	2	12	3465360	319.70	35.002 - 36.589	364.75	334.90	324.95	319.95	314.85	310.80	305.05
37.0	1.4567	1 1/4	8	2 1/8	12 1/2	3465370	328.55	36.590 - 38.176	373.70	343.85	333.75	328.70	323.85	319.65	313.90
38.0	1.4961	1 1/4	8	2 1/8	12 1/2	3465380	328.55	-	-	-	-	-	-	-	-
39.0	1.5354	1 1/4	8	2 1/8	12 1/2	3465390	425.10	38.177 - 39.776	470.30	440.30	430.25	425.40	420.25	416.05	410.45
40.0	1.5748	1 1/4	8	2 1/4	13	3465400	425.10	39.777 - 41.351	470.30	440.30	430.25	425.40	420.25	416.05	410.45
41.0	1.6142	1 1/4	8	2 1/4	13	3465410	425.10	-	-	-	-	-	-	-	-
42.0	1.6535	1 1/4	8	2 1/4	13	3465420	468.85	41.352 - 42.951	513.85	483.90	473.95	469.10	463.95	459.80	454.00
43.0	1.6929	1 1/4	10	2 3/8	13 1/2	3465430	468.85	42.952 - 44.526	513.85	483.90	473.95	469.10	463.95	459.80	454.00
44.0	1.7323	1 1/4	10	2 3/8	13 1/2	3465440	468.85	-	-	-	-	-	-	-	-

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Diameters up to 63mm - call us for price & availability.

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CARBIDE TIPPED EXPANSION CHUCKING REAMERS

TYPE 3467 - TAPER SHANK - STRAIGHT FLUTE LONG CARBIDE

Flute long carbide tips brazed to one piece alloy steel bodies. Straight polished flutes.

Designed and manufactured for maximum tool life. Expansion reamers are recommended for reaming abrasive materials and as the diameter wears down, the reamers can be expanded many times by tightening the end adjusting screw and regrinding to its original size. Expansion reamers should not be considered as adjustable for use in producing holes of several sizes.

TOOL DIAMETER	MINIMUM EXPANSION
5/16" - 15/32"	.006"
1/2" - 31/32"	.010"
1" - 1 1/2"	.013"
1 5/16" - 2 1/2"	.015"



For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MORSE TAPER	NO. OF FLUTES	LENGTH		EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL			FLT	OAL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.3125	5/16	1	4	1	6	346710	\$125.20	.2841 - .3150	\$183.05	\$154.00	\$144.40	\$139.65	\$134.85	\$130.85
.3438	11/32	1	4	1	6	346711	125.20	.3151 - .3470	183.05	154.00	144.40	139.65	134.85	130.85
.3750	3/8	1	4	1	7	346712	117.40	.3471 - .3780	171.60	144.40	135.30	131.00	126.40	122.75
.4062	13/32	1	4	1	7	346713	121.05	.3781 - .4090	175.15	147.95	138.90	134.55	129.90	126.25
.4375	7/16	1	4	1	7	346714	121.05	.4091 - .4410	175.15	147.95	138.90	134.55	129.90	126.25
.4688	15/32	1	4	1	7	346715	126.95	.4411 - .4720	181.15	154.00	144.85	140.55	135.85	132.20
.5000	1/2	1	6	1	8	346716	126.95	.4721 - .5030	181.15	154.00	144.85	140.55	135.85	132.20
.5312	17/32	1	6	1	8	346717	130.80	.5031 - .5340	185.00	157.80	148.80	144.40	139.65	136.00
.5625	9/16	1	6	1 1/8	8	346718	130.80	.5341 - .5660	185.00	157.80	148.80	144.40	139.65	136.00
.5938	19/32	1	6	1 1/8	8	346719	136.00	.5661 - .5970	190.20	163.15	154.15	149.75	145.25	141.45
.6250	5/8	2	6	1 1/4	9	346720	136.00	.5971 - .6280	190.20	163.15	154.15	149.75	145.25	141.45
.6562	21/32	2	6	1 1/4	9	346721	153.15	.6281 - .6590	207.35	180.10	171.00	166.75	162.10	158.55
.6875	11/16	2	6	1 1/4	9	346722	153.15	.6591 - .6910	207.35	180.10	171.00	166.75	162.10	158.55
.7188	23/32	2	6	1 1/4	9	346723	153.45	.6911 - .7220	207.75	180.70	171.60	167.30	162.45	158.90
.7500	3/4	2	6	1 3/8	9 1/2	346724	153.45	.7221 - .7530	207.75	180.70	171.60	167.30	162.45	158.90
.7812	25/32	2	6	1 3/8	9 1/2	346725	164.90	.7531 - .7840	219.10	191.85	182.95	178.65	173.90	170.25
.8125	13/16	2	6	1 3/8	9 1/2	346726	164.90	.7841 - .8160	219.10	191.85	182.95	178.65	173.90	170.25
.8438	27/32	2	6	1 3/8	9 1/2	346727	171.85	.8161 - .8470	225.95	198.85	189.75	185.35	180.75	177.05
.8750	7/8	2	6	1 1/2	10	346728	178.40	.8471 - .8780	234.45	206.45	196.95	192.50	187.55	183.70
.9062	29/32	2	6	1 1/2	10	346729	188.55	.8781 - .9090	244.80	216.65	207.15	202.70	197.85	194.15
.9375	15/16	3	8	1 1/2	10	346730	188.55	.9091 - .9410	244.80	216.65	207.15	202.70	197.85	194.15
.9688	31/32	3	8	1 1/2	10	346731	195.45	.9411 - .9720	251.50	223.30	213.85	209.40	204.70	200.80
1.0000	1	3	8	1 5/8	10 1/2	346732	195.45	.9721 - 1.0030	251.50	223.30	213.85	209.40	204.70	200.80
1.0312	1 1/32	3	8	1 5/8	10 1/2	346733	213.70	-	-	-	-	-	-	-
1.0625	1 1/16	3	8	1 5/8	10 1/2	346734	213.70	1.0031 - 1.0660	270.20	241.90	232.45	228.00	223.15	219.30
1.0938	1 3/32	3	8	1 3/4	11	346735	213.70	-	-	-	-	-	-	-
1.1250	1 1/8	3	8	1 3/4	11	346736	213.70	1.0661 - 1.1280	270.20	241.90	232.45	228.00	223.15	219.30
1.1875	1 3/16	3	8	1 3/4	11	346738	240.50	1.1281 - 1.1905	296.60	268.45	259.10	254.60	249.85	246.00
1.2500	1 1/4	4	8	1 7/8	11 1/2	346740	243.75	1.1906 - 1.2530	299.90	271.80	262.40	257.95	252.95	249.25
1.3125	1 5/16	4	8	1 7/8	11 1/2	346742	266.40	1.2531 - 1.3155	322.60	294.40	284.95	280.55	275.85	271.85
1.3750	1 3/8	4	8	2	12	346744	291.90	1.3156 - 1.3780	347.90	319.85	310.50	305.95	301.10	297.25
1.4375	1 7/16	4	8	2	12	346746	327.55	1.3781 - 1.4405	387.55	357.50	347.45	342.60	337.50	333.45
1.5000	1 1/2	4	8	2 1/8	12 1/2	346748	339.20	1.4406 - 1.5030	399.25	369.10	358.95	354.35	349.10	345.05
1.5625	1 9/16	4	8	2 1/8	12 1/2	346750	466.05	1.5031 - 1.5660	526.10	496.00	486.05	481.25	476.00	471.95
1.6250	1 5/8	4	8	2 1/4	13	346752	466.05	1.5661 - 1.6280	526.10	496.00	486.05	481.25	476.00	471.95
1.6875	1 11/16	4	8	2 1/4	13	346754	516.20	1.6281 - 1.6910	576.20	546.20	536.10	531.25	526.20	522.10
1.7500	1 3/4	4	10	2 3/8	13 1/2	346756	516.20	1.6911 - 1.7530	576.20	546.20	536.10	531.25	526.20	522.10
1.8125	1 13/16	4	10	2 3/8	13 1/2	346758	611.15	1.7531 - 1.8160	671.20	641.25	631.20	626.35	621.15	617.10
1.8750	1 7/8	4	10	2 1/2	14	346760	611.15	1.8161 - 1.8780	671.20	641.25	631.20	626.35	621.15	617.10
1.9375	1 15/16	4	10	2 1/2	14	346762	668.00	1.8781 - 1.9410	727.80	697.80	687.65	682.95	677.75	673.90
2.0000	2	4	12	2 1/2	14	346764	668.00	1.9411 - 2.0030	727.80	697.80	687.65	682.95	677.75	673.90
2.1250	2 1/8	5	12	2 3/4	14 1/2	346768	1000.05	2.0031 - 2.1280	1059.90	1029.95	1019.85	1015.10	1010.00	1005.85
2.2500	2 1/4	5	12	2 3/4	14 1/2	346772	1073.90	2.1281 - 2.2530	1133.90	1103.85	1093.85	1088.95	1083.90	1079.85
2.3750	2 3/8	5	12	3	15	346776	1111.25	2.2531 - 2.3780	1171.10	1141.25	1131.05	1126.45	1121.20	1117.20
2.5000	2 1/2	5	12	3	15	346780	1111.25	2.3781 - 2.5030	1171.10	1141.25	1131.05	1126.45	1121.20	1117.20

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CARBIDE TIPPED EXPANSION CHUCKING REAMERS

METRIC

TYPE 3467 - TAPER SHANK - STRAIGHT FLUTE LONG CARBIDE



Detailed description and fractional sizes on page 88. Tolerances on page 60. Tool diameter in millimeters with all other dimensions in inches.

TOOL DIAMETER		MORSE TAPER	NO. OF FLTS.	LENGTH		EDP NO.	PRICE EACH	METRIC SIZE RANGE	PRICE EACH - FINISHED TO METRIC SIZE						
mm	INCH			FLUTE	OVERALL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
7.5	.2953	1	4	1	6	3467075	\$144.40	7.215 - 8.001	\$187.85	\$159.00	\$149.40	\$144.60	\$139.65	\$135.70	\$130.05
8.0	.3150	1	4	1	6	3467080	144.40	-	-	-	-	-	-	-	-
8.5	.3346	1	4	1	6	3467085	144.40	8.002 - 8.814	187.85	159.00	149.40	144.60	139.65	135.70	130.05
9.0	.3543	1	4	1	7	3467090	135.30	8.815 - 9.601	176.05	149.00	140.00	135.55	131.00	127.25	121.95
9.5	.3740	1	4	1	7	3467095	135.30	-	-	-	-	-	-	-	-
10.0	.3937	1	4	1	7	3467100	138.90	9.602 - 10.389	179.65	152.70	143.55	139.10	134.55	130.80	125.50
10.5	.4134	1	4	1	7	3467105	138.90	10.390 - 11.201	179.65	152.70	143.55	139.10	134.55	130.80	125.50
11.0	.4331	1	4	1	7	3467110	138.90	-	-	-	-	-	-	-	-
11.5	.4528	1	4	1	7	3467115	144.85	11.202 - 11.989	185.65	158.60	149.60	145.25	140.55	136.85	131.55
12.0	.4724	1	6	1	8	3467120	144.85	11.990 - 12.776	185.65	158.60	149.60	145.25	140.55	136.85	131.55
12.5	.4921	1	6	1	8	3467125	144.85	-	-	-	-	-	-	-	-
13.0	.5118	1	6	1	8	3467130	148.80	12.777 - 13.564	189.60	162.40	153.30	148.95	144.40	140.75	135.40
13.5	.5315	1	6	1	8	3467135	148.80	-	-	-	-	-	-	-	-
14.0	.5512	1	6	1 1/8	8	3467140	148.80	13.565 - 14.376	189.60	162.40	153.30	148.95	144.40	140.75	135.40
14.5	.5709	1	6	1 1/8	8	3467145	154.15	14.377 - 15.164	194.80	167.70	158.75	154.40	149.75	145.90	140.85
15.0	.5906	1	6	1 1/8	8	3467150	154.15	-	-	-	-	-	-	-	-
15.5	.6102	2	6	1 1/4	9	3467155	154.15	15.165 - 15.951	194.80	167.70	158.75	154.40	149.75	145.90	140.85
16.0	.6299	2	6	1 1/4	9	3467160	171.00	15.952 - 16.739	211.90	184.75	175.70	171.15	166.75	163.05	157.80
16.5	.6496	2	6	1 1/4	9	3467165	171.00	-	-	-	-	-	-	-	-
17.0	.6693	2	6	1 1/4	9	3467170	171.00	16.740 - 17.551	211.90	184.75	175.70	171.15	166.75	163.05	157.80
17.5	.6890	2	6	1 1/4	9	3467175	171.00	-	-	-	-	-	-	-	-
18.0	.7087	2	6	1 1/4	9	3467180	171.60	17.552 - 18.339	212.35	185.30	176.30	171.85	167.30	163.45	158.30
18.5	.7283	2	6	1 3/8	9 1/2	3467185	171.60	18.340 - 19.126	212.35	185.30	176.30	171.85	167.30	163.45	158.30
19.0	.7480	2	6	1 3/8	9 1/2	3467190	171.60	-	-	-	-	-	-	-	-
19.5	.7677	2	6	1 3/8	9 1/2	3467195	182.95	19.127 - 19.914	223.60	196.70	187.55	183.10	178.65	174.80	169.55
20.0	.7874	2	6	1 3/8	9 1/2	3467200	182.95	19.915 - 20.726	223.60	196.70	187.55	183.10	178.65	174.80	169.55
20.5	.8071	2	6	1 3/8	9 1/2	3467205	182.95	-	-	-	-	-	-	-	-
21.0	.8268	2	6	1 3/8	9 1/2	3467210	189.75	20.727 - 21.514	230.45	203.50	194.45	189.90	185.35	181.50	176.55
21.5	.8465	2	6	1 3/8	9 1/2	3467215	189.75	-	-	-	-	-	-	-	-
22.0	.8661	2	6	1 1/2	10	3467220	189.75	21.515 - 22.301	230.45	203.50	194.45	189.90	185.35	181.50	176.55
22.5	.8858	2	6	1 1/2	10	3467225	207.15	22.302 - 23.089	249.50	221.35	212.05	207.35	202.70	198.85	193.40
23.0	.9055	2	6	1 1/2	10	3467230	207.15	-	-	-	-	-	-	-	-
23.5	.9252	3	8	1 1/2	10	3467235	207.15	23.090 - 23.901	249.50	221.35	212.05	207.35	202.70	198.85	193.40
24.0	.9449	3	8	1 1/2	10	3467240	213.85	23.902 - 24.689	256.30	228.30	218.85	214.35	209.40	205.55	200.25
24.5	.9646	3	8	1 1/2	10	3467245	213.85	-	-	-	-	-	-	-	-
25.0	.9843	3	8	1 5/8	10 1/2	3467250	213.85	24.690 - 25.476	256.30	228.30	218.85	214.35	209.40	205.55	200.25
25.5	1.0039	3	8	1 5/8	10 1/2	3467255	232.45	25.477 - 27.076	274.80	246.70	237.25	232.70	228.00	224.25	218.70
26.0	1.0236	3	8	1 5/8	10 1/2	3467260	232.45	-	-	-	-	-	-	-	-
27.0	1.0630	3	8	1 5/8	10 1/2	3467270	232.45	-	-	-	-	-	-	-	-
28.0	1.1024	3	8	1 3/4	11	3467280	232.45	27.077 - 28.651	274.80	246.70	237.25	232.70	228.00	224.25	218.70
29.0	1.1417	3	8	1 3/4	11	3467290	259.10	28.652 - 30.239	301.35	273.35	263.90	259.30	254.60	250.70	245.15
30.0	1.1811	3	8	1 3/4	11	3467300	259.10	-	-	-	-	-	-	-	-
31.0	1.2205	4	8	1 7/8	11 1/2	3467310	262.40	30.240 - 31.826	304.75	276.60	267.15	262.55	257.95	253.95	248.50
32.0	1.2598	4	8	1 7/8	11 1/2	3467320	284.95	31.827 - 33.414	327.25	299.15	289.95	285.25	280.55	276.60	271.25
33.0	1.2992	4	8	1 7/8	11 1/2	3467330	284.95	-	-	-	-	-	-	-	-
34.0	1.3386	4	8	2	12	3467340	310.50	33.415 - 35.001	352.65	324.80	315.25	310.70	305.95	302.00	296.60
35.0	1.3780	4	8	2	12	3467350	310.50	-	-	-	-	-	-	-	-
36.0	1.4173	4	8	2	12	3467360	347.45	35.002 - 36.589	392.50	362.60	352.50	347.70	342.60	338.40	332.80
37.0	1.4567	4	8	2 1/8	12 1/2	3467370	358.95	36.590 - 38.176	404.25	374.20	364.30	359.40	354.35	350.20	344.35
38.0	1.4961	4	8	2 1/8	12 1/2	3467380	358.95	-	-	-	-	-	-	-	-
39.0	1.5354	4	8	2 1/8	12 1/2	3467390	486.05	38.177 - 39.776	531.00	501.15	491.25	486.20	481.25	477.05	471.30
40.0	1.5748	4	8	2 1/4	13	3467400	486.05	39.777 - 41.351	531.00	501.15	491.25	486.20	481.25	477.05	471.30
41.0	1.6142	4	8	2 1/4	13	3467410	486.05	-	-	-	-	-	-	-	-
42.0	1.6535	4	8	2 1/4	13	3467420	536.10	41.352 - 42.951	581.20	551.35	541.30	536.45	531.25	527.25	521.25
43.0	1.6929	4	10	2 3/8	13 1/2	3467430	536.10	42.952 - 44.526	581.20	551.35	541.30	536.45	531.25	527.25	521.25
44.0	1.7323	4	10	2 3/8	13 1/2	3467440	536.10	-	-	-	-	-	-	-	-

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Diameters up to 63mm - call us for price & availability.

Made in U.S.A.

CARBIDE TIPPED CNC STUB/SCREW MACHINE REAMERS

TYPE 3430 - STRAIGHT FLUTE LONG CARBIDE

Flute long carbide tips brazed to one piece hardened alloy steel bodies. Polished flutes permit high volume chip load.



TYPE 3440 - LEFT SPIRAL FLUTE LONG CARBIDE

Flute long carbide tips brazed to one piece hardened alloy steel bodies. Left spiral flutes tend to bridge interruptions. Used in through holes only.



BOTH TYPES:
Pin cross hole permits use in floating holders.
For reamer tolerances and closer tolerance pricing, see page 60

TOOL DIAMETER		SHANK DIAM.	PIN HOLE DIAM.	NO. OF FLUTES	LENGTH		STRAIGHT TYPE 3430 EDP NO.	LEFT SPIRAL TYPE 3440 EDP NO.	BOTH TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTION				FLT	OAL					1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14**
.1875	3/16	1/4	3/32	4	1*	2 1/4	343006	344006	\$78.60	.1770 - .2040	\$136.25	\$107.35	\$97.70	\$93.15	\$88.15	\$84.20
.2188	7/32	1/4	3/32	4	1*	2 1/4	343007	344007	78.60	.2041 - .2210	136.25	107.35	97.70	93.15	88.15	84.20
.2344	15/64	1/4	3/32	4	1*	2 1/4	34302344	34402344	78.60	.2211 - .2380	136.25	107.35	97.70	93.15	88.15	84.20
.2500	1/4	1/4	3/32	4	1*	2 1/4	343008	344008	78.60	.2381 - .2530	136.25	107.35	97.70	93.15	88.15	84.20
.2812	9/32	3/8	1/8	4	1*	2 1/4	343009	344009	78.60	.2531 - .2840	136.25	107.35	97.70	93.15	88.15	84.20
.3125	5/16	3/8	1/8	4	1	2 1/4	343010	344010	91.40	.2841 - .3150	149.00	120.05	110.55	105.90	100.85	97.00
.3438	11/32	3/8	1/8	4	1 1/4	2 1/2	343011	344011	92.10	.3151 - .3470	149.85	121.05	111.30	106.80	101.70	97.85
.3750	3/8	3/8	1/8	4	1 1/4	2 1/2	343012	344012	99.95	.3471 - .3780	157.70	128.80	119.15	114.40	109.45	105.55
.4062	13/32	1/2	3/16	4	1 1/4	2 1/2	343013	344013	101.40	.3781 - .4090	159.20	130.05	120.50	115.90	110.90	107.15
.4375	7/16	1/2	3/16	4	1 1/4	2 1/2	343014	344014	120.00	.4091 - .4410	177.80	148.85	139.10	134.55	129.65	125.80
.4688	15/32	1/2	3/16	4	1 1/4	2 1/2	343015	344015	120.00	.4411 - .4720	177.80	148.85	139.10	134.55	129.65	125.80
.5000	1/2	1/2	3/16	4	1 1/4	2 1/2	343016	344016	131.40	.4721 - .5030	190.75	161.05	151.05	146.35	141.15	137.30
.5312	17/32	5/8	1/4	6	1 1/2	3	343017	344017	131.40	.5031 - .5340	190.75	161.05	151.05	146.35	141.15	137.30
.5625	9/16	5/8	1/4	6	1 1/2	3	343018	344018	138.50	.5341 - .5660	197.60	168.00	157.95	153.30	148.20	144.10
.5938	19/32	5/8	1/4	6	1 1/2	3	343019	344019	138.50	.5661 - .5970	197.60	168.00	157.95	153.30	148.20	144.10
.6250	5/8	5/8	1/4	6	1 1/2	3	343020	344020	142.15	.5971 - .6280	201.45	171.75	161.80	156.95	151.90	147.95
.6562	21/32	5/8	1/4	6	1 1/2	3	343021	344021	142.15	.6281 - .6590	201.45	171.75	161.80	156.95	151.90	147.95
.6875	11/16	5/8	1/4	6	1 1/2	3	343022	344022	148.80	.6591 - .6910	208.00	178.35	168.45	163.60	158.55	154.55
.7188	23/32	3/4	5/16	6	1 1/2	3	343023	344023	148.80	.6911 - .7220	208.00	178.35	168.45	163.60	158.55	154.55
.7500	3/4	3/4	5/16	6	1 1/2	3	343024	344024	152.65	.7221 - .7530	211.70	182.10	172.15	167.40	162.30	158.40
.7812	25/32	3/4	5/16	6	1 1/2	3	343025	344025	152.65	.7531 - .7840	211.70	182.10	172.15	167.40	162.30	158.40
.8125	13/16	3/4	5/16	6	1 1/2	3	343026	344026	165.65	.7841 - .8160	224.90	195.35	185.30	180.60	175.45	171.60
.8438	27/32	3/4	5/16	6	1 1/2	3	343027	344027	165.65	.8161 - .8470	224.90	195.35	185.30	180.60	175.45	171.60
.8750	7/8	3/4	5/16	6	1 1/2	3	343028	344028	181.05	.8471 - .8780	242.60	211.60	201.30	196.40	191.20	187.05
.9062	29/32	3/4	5/16	6	1 1/2	3	343029	344029	181.05	.8781 - .9090	242.60	211.60	201.30	196.40	191.20	187.05
.9375	15/16	3/4	5/16	6	1 1/2	3	343030	344030	199.35	.9091 - .9410	260.80	230.15	219.75	214.85	209.65	205.50
.9688	31/32	3/4	5/16	8	1 1/2	3	343031	344031	199.35	.9411 - .9720	260.80	230.15	219.75	214.85	209.65	205.50
1.0000	1	3/4	5/16	8	1 1/2	3	343032	344032	209.10	.9721 - 1.0030	270.70	239.95	229.50	224.70	219.30	215.25
1.0625	1 1/16	3/4	5/16	8	1 1/2	3	343034	344034	209.10	1.0031 - 1.0660	270.70	239.95	229.50	224.70	219.30	215.25
1.1250	1 1/8	3/4	5/16	8	1 1/2	3	343036	344036	244.85	1.0661 - 1.1280	306.40	275.40	265.15	260.35	255.00	250.85
1.1875	1 3/16	3/4	5/16	8	1 1/2	3	343038	344038	255.25	1.1281 - 1.1905	316.90	286.00	275.55	270.70	265.50	261.25
1.2500	1 1/4	3/4	5/16	8	1 1/2	3	343040	344040	299.00	1.1906 - 1.2530	360.60	329.75	319.55	314.50	309.35	305.10
1.3125	1 5/16	3/4	5/16	8	1 1/2	3	343042	344042	299.00	1.2531 - 1.3155	360.60	329.75	319.55	314.50	309.35	305.10
1.3750	1 3/8	3/4	5/16	8	1 1/2	3	343044	344044	303.30	1.3156 - 1.3780	364.85	334.00	323.85	318.80	313.75	309.50
1.4375	1 7/16	3/4	5/16	8	1 1/2	3	343046	344046	353.60	1.3781 - 1.4405	415.25	384.25	374.05	369.10	363.85	359.80
1.5000	1 1/2	3/4	5/16	8	1 1/2	3	343048	344048	424.65	1.4406 - 1.5030	486.20	455.50	445.15	440.20	434.80	430.60

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CARBIDE TIPPED CNC STUB/SCREW MACHINE REAMERS

METRIC



TYPE 3430 - STRAIGHT FLUTE LONG CARBIDE
TYPE 3440 - LEFT SPIRAL FLUTE LONG CARBIDE

Detailed description and fractional sizes on page 90. Tool diameter in millimeters with all other dimensions in inches.

For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		SHANK DIAM.	PIN HOLE DIAM.	NO. OF FLUTES	LENGTH		STRAIGHT TYPE 3430 EDP NO.	LEFT SPIRAL TYPE 3440 EDP NO.	BOTH TYPES PRICE	METRIC SIZE RANGE	PRICE EACH - FINISHED TO METRIC SIZE						
mm	INCH				FLT	OAL					1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
4.5	.1772	1/4	3/32	4	1*	2 1/4	3430045	3440045	\$97.70	4.494 - 5.182	\$141.05	\$112.25	\$102.65	\$97.90	\$93.15	\$89.05	\$83.60
5.0	.1969	1/4	3/32	4	1*	2 1/4	3430050	3440050	97.70	-	-	-	-	-	-	-	-
5.5	.2165	1/4	3/32	4	1*	2 1/4	3430055	3440055	97.70	5.183 - 5.613	141.05	112.25	102.65	97.90	93.15	89.05	83.60
6.0	.2362	1/4	3/32	4	1*	2 1/4	3430060	3440060	97.70	5.614 - 6.045	141.05	112.25	102.65	97.90	93.15	89.05	83.60
-	-	1/4	3/32	4	1*	2 1/4	3430063	3440063	-	6.046 - 6.426	141.05	112.25	102.65	97.90	93.15	89.05	83.60
6.5	.2559	3/8	1/8	4	1*	2 1/4	3430065	3440065	97.70	6.427 - 7.214	141.05	112.25	102.65	97.90	93.15	89.05	83.60
7.0	.2756	3/8	1/8	4	1*	2 1/4	3430070	3440070	97.70	-	-	-	-	-	-	-	-
7.5	.2953	3/8	1/8	4	1	2 1/4	3430075	3440075	110.55	7.215 - 8.001	153.90	125.10	115.35	110.70	105.90	101.75	96.25
8.0	.3150	3/8	1/8	4	1	2 1/4	3430080	3440080	110.55	-	-	-	-	-	-	-	-
8.5	.3346	3/8	1/8	4	1 1/4	2 1/2	3430085	3440085	111.30	8.002 - 8.814	154.75	126.05	116.20	111.50	106.80	102.65	97.05
9.0	.3543	3/8	1/8	4	1 1/4	2 1/2	3430090	3440090	119.15	8.815 - 9.601	162.45	133.80	124.05	119.35	114.40	110.55	104.95
9.5	.3740	3/8	1/8	4	1 1/4	2 1/2	3430095	3440095	119.15	-	-	-	-	-	-	-	-
10.0	.3937	1/2	3/16	4	1 1/4	2 1/2	3430100	3440100	120.50	9.602 - 10.389	164.00	135.15	125.35	120.90	115.90	111.90	106.20
10.5	.4134	1/2	3/16	4	1 1/4	2 1/2	3430105	3440105	139.10	10.390 - 11.201	182.80	153.70	144.00	139.40	134.55	130.65	124.95
11.0	.4331	1/2	3/16	4	1 1/4	2 1/2	3430110	3440110	139.10	-	-	-	-	-	-	-	-
11.5	.4528	1/2	3/16	4	1 1/4	2 1/2	3430115	3440115	139.10	11.202 - 11.989	182.80	153.70	144.00	139.40	134.55	130.65	124.95
12.0	.4724	1/2	3/16	4	1 1/4	2 1/2	3430120	3440120	151.05	11.990 - 12.776	195.60	165.85	156.10	151.30	146.35	142.15	136.55
12.5	.4921	1/2	3/16	4	1 1/4	2 1/2	3430125	3440125	151.05	-	-	-	-	-	-	-	-
13.0	.5118	5/8	1/4	6	1 1/2	3	3430130	3440130	151.05	12.777 - 13.564	195.60	165.85	156.10	151.30	146.35	142.15	136.55
13.5	.5315	5/8	1/4	6	1 1/2	3	3430135	3440135	151.05	-	-	-	-	-	-	-	-
14.0	.5512	5/8	1/4	6	1 1/2	3	3430140	3440140	157.95	13.565 - 14.376	202.70	173.10	163.15	158.40	153.30	149.10	143.50
14.5	.5709	5/8	1/4	6	1 1/2	3	3430145	3440145	157.95	14.377 - 15.164	202.70	173.10	163.15	158.40	153.30	149.10	143.50
15.0	.5906	5/8	1/4	6	1 1/2	3	3430150	3440150	157.95	-	-	-	-	-	-	-	-
15.5	.6102	5/8	1/4	6	1 1/2	3	3430155	3440155	161.80	15.165 - 15.951	206.45	176.90	166.90	162.00	156.95	153.00	147.25
16.0	.6299	5/8	1/4	6	1 1/2	3	3430160	3440160	161.80	15.952 - 16.739	206.45	176.90	166.90	162.00	156.95	153.00	147.25
16.5	.6496	5/8	1/4	6	1 1/2	3	3430165	3440165	161.80	-	-	-	-	-	-	-	-
17.0	.6693	5/8	1/4	6	1 1/2	3	3430170	3440170	168.45	16.740 - 17.551	212.95	183.35	173.45	168.65	163.60	159.50	153.70
17.5	.6890	5/8	1/4	6	1 1/2	3	3430175	3440175	168.45	-	-	-	-	-	-	-	-
18.0	.7087	3/4	5/16	6	1 1/2	3	3430180	3440180	168.45	17.552 - 18.339	212.95	183.35	173.45	168.65	163.60	159.50	153.70
18.5	.7283	3/4	5/16	6	1 1/2	3	3430185	3440185	172.15	18.340 - 19.126	216.75	187.05	177.20	172.35	167.40	163.20	157.65
19.0	.7480	3/4	5/16	6	1 1/2	3	3430190	3440190	172.15	-	-	-	-	-	-	-	-
19.5	.7677	3/4	5/16	6	1 1/2	3	3430195	3440195	172.15	19.127 - 19.914	216.75	187.05	177.20	172.35	167.40	163.20	157.65
20.0	.7874	3/4	5/16	6	1 1/2	3	3430200	3440200	185.30	19.915 - 20.726	230.05	200.40	190.50	185.65	180.60	176.55	170.80
20.5	.8071	3/4	5/16	6	1 1/2	3	3430205	3440205	185.30	-	-	-	-	-	-	-	-
21.0	.8268	3/4	5/16	6	1 1/2	3	3430210	3440210	185.30	20.727 - 21.514	230.05	200.40	190.50	185.65	180.60	176.55	170.80
21.5	.8465	3/4	5/16	6	1 1/2	3	3430215	3440215	185.30	-	-	-	-	-	-	-	-
22.0	.8661	3/4	5/16	6	1 1/2	3	3430220	3440220	194.15	21.515 - 22.301	238.75	209.10	199.05	194.35	189.30	185.20	179.55
22.5	.8858	3/4	5/16	6	1 1/2	3	3430225	3440225	201.30	22.302 - 23.089	247.65	216.95	206.70	201.55	196.40	192.35	186.35
23.0	.9055	3/4	5/16	6	1 1/2	3	3430230	3440230	201.30	-	-	-	-	-	-	-	-
23.5	.9252	3/4	5/16	6	1 1/2	3	3430235	3440235	219.75	23.090 - 23.901	266.05	235.35	225.05	220.05	214.85	210.55	204.70
24.0	.9449	3/4	5/16	8	1 1/2	3	3430240	3440240	219.75	23.902 - 24.689	266.05	235.35	225.05	220.05	214.85	210.55	204.70
24.5	.9646	3/4	5/16	8	1 1/2	3	3430245	3440245	219.75	-	-	-	-	-	-	-	-
25.0	.9843	3/4	5/16	8	1 1/2	3	3430250	3440250	229.50	24.690 - 25.476	276.00	245.10	234.95	230.00	224.70	220.45	214.55
25.5	1.0039	3/4	5/16	8	1 1/2	3	3430255	3440255	229.50	25.477 - 27.076	276.00	245.10	234.95	230.00	224.70	220.45	214.55
26.0	1.0236	3/4	5/16	8	1 1/2	3	3430260	3440260	229.50	-	-	-	-	-	-	-	-
27.0	1.0630	3/4	5/16	8	1 1/2	3	3430270	3440270	229.50	-	-	-	-	-	-	-	-
28.0	1.1024	3/4	5/16	8	1 1/2	3	3430280	3440280	265.15	27.077 - 28.651	311.60	280.85	270.40	265.50	260.35	256.05	250.15
29.0	1.1417	3/4	5/16	8	1 1/2	3	3430290	3440290	275.55	28.652 - 30.239	311.60	280.85	270.40	265.50	260.35	256.05	250.15
30.0	1.1811	3/4	5/16	8	1 1/2	3	3430300	3440300	275.55	-	-	-	-	-	-	-	-
31.0	1.2205	3/4	5/16	8	1 1/2	3	3430310	3440310	319.55	30.240 - 31.826	365.85	335.00	324.85	319.70	314.50	310.25	304.35
32.0	1.2598	3/4	5/16	8	1 1/2	3	3430320	3440320	319.55	31.827 - 33.414	365.85	335.00	324.85	319.70	314.50	310.25	304.35
33.0	1.2992	3/4	5/16	8	1 1/2	3	3430330	3440330	319.55	-	-	-	-	-	-	-	-
34.0	1.3386	3/4	5/16	8	1 1/2	3	3430340	3440340	323.85	33.415 - 35.001	370.05	339.30	329.00	324.00	318.80	314.50	308.60
35.0	1.3780	3/4	5/16	8	1 1/2	3	3430350	3440350	323.85	-	-	-	-	-	-	-	-
36.0	1.4173	3/4	5/16	8	1 1/2	3	3430360	3440360	374.05	35.002 - 36.589	420.25	389.65	379.30	374.20	369.10	364.75	358.85
37.0	1.4567	3/4	5/16	8	1 1/2	3	3430370	3440370	445.15	36.590 - 38.176	491.50	460.80	450.35	445.45	440.20	435.85	429.95
38.0	1.4961	3/4	5/16	8	1 1/2	3	3430380	3440380	445.15	-	-	-	-	-	-	-	-

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*1/2" carbide length.

Made in U.S.A.

CARBIDE TIPPED NAS 897 CHUCKING REAMERS

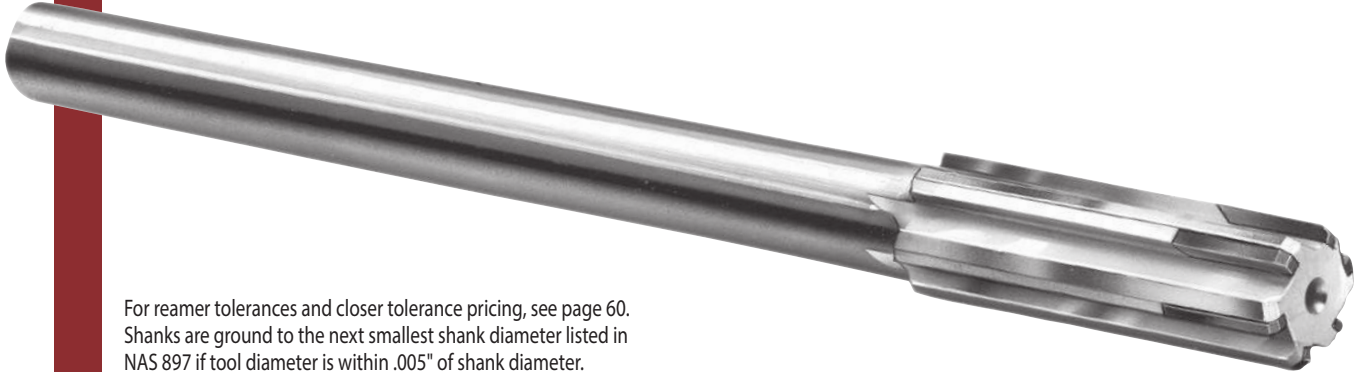
TYPE 3407 - STRAIGHT SHANK - STRAIGHT FLUTES - FOR NON-FERROUS

TYPE 3408 - STRAIGHT SHANK - STRAIGHT FLUTES - FOR CAST IRON

TYPE 3409 - STRAIGHT SHANK - STRAIGHT FLUTES - FOR STEEL

Carbide tips brazed to one piece hardened alloy steel bodies. Straight polished flutes.

NAS 897 chucking reamers manufactured to national aerospace standards 897 C with partial flute length carbide. Tool geometry and carbide grade appropriate for material being machined.



For reamer tolerances and closer tolerance pricing, see page 60.
Shanks are ground to the next smallest shank diameter listed in NAS 897 if tool diameter is within .005" of shank diameter.

TOOL DIAMETER		MAX. SHANK DIAM.	NO. OF FLTS.	LENGTH			NON-FERR. TYPE 3407 EDP NO.	CAST IRON TYPE 3408 EDP NO.	STEEL TYPE 3409 EDP NO.	ALL TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DEC.	FRACTIONAL			FLT.	CARB.	OAL						1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.1562	5/32	.1510	4	1	1/2	4	340705	340805	340905	\$78.95	.1560 - .1769	\$136.70	\$107.50	\$97.90	\$93.35	\$88.30	\$84.45
.1875	3/16	.1805	4	1 1/8	1/2	4 1/2	340706	340806	340906	72.35	.1770 - .2040	128.60	100.40	90.95	86.40	81.65	77.80
.2188	7/32	.2075	4	1 1/4	1/2	5	340707	340807	340907	72.35	.2041 - .2210	128.60	100.40	90.95	86.40	81.65	77.80
.2344	15/64	.2265	4	1 1/2	1/2	6	34072344	34082344	34092344	76.80	.2211 - .2380	133.00	104.80	95.25	90.85	85.95	82.20
.2500	1/4	.2405	4	1 1/2	1/2	6	340708	340808	340908	72.80	.2381 - .2530	128.95	100.85	91.50	86.95	82.05	78.30
.2812	9/32	.2485	4	1 1/2	1/2	6	340709	340809	340909	74.15	.2531 - .2840	130.55	102.30	93.00	88.30	83.60	79.60
.3125	5/16	.2792	4	1 1/2	1/2	6	340710	340810	340910	74.15	.2841 - .3150	130.55	102.30	93.00	88.30	83.60	79.60
.3125	5/16	.2792	6	1 1/2	1/2	6	340790	340890	340990	81.65	.2841 - .3150	137.75	109.60	100.15	95.80	90.95	87.15
.3438	11/32	.2792	4	1 1/2	5/8	6	340711	340811	340911	77.05	.3151 - .3470	133.20	105.15	95.70	91.25	86.35	82.65
.3438	11/32	.2792	6	1 1/2	5/8	6	340791	340891	340991	84.60	.3151 - .3470	140.85	112.65	103.20	98.75	93.90	90.10
.3750	3/8	.3105	4	1 3/4	5/8	7	340712	340812	340912	70.70	.3471 - .3780	122.15	96.40	87.85	83.70	79.25	75.75
.3750	3/8	.3105	6	1 3/4	5/8	7	340792	340892	340992	77.55	.3471 - .3780	129.20	103.35	94.80	90.65	86.20	82.70
.4062	13/32	.3105	4	1 3/4	5/8	7	340713	340813	340913	80.75	.3781 - .4090	137.00	108.80	99.40	94.90	89.90	86.25
.4062	13/32	.3105	6	1 3/4	5/8	7	340793	340893	340993	86.05	.3781 - .4090	142.30	114.10	104.80	100.15	95.35	91.65
.4375	7/16	.3730	6	1 3/4	5/8	7	340714	340814	340914	86.05	.4091 - .4410	142.30	114.10	104.80	100.15	95.35	91.65
.4688	15/32	.3730	6	1 3/4	5/8	7	340715	340815	340915	87.30	.4411 - .4720	143.55	115.35	106.00	101.45	96.75	93.00
.5000	1/2	.4355	6	2	5/8	8	340716	340816	340916	103.20	.4721 - .5030	165.25	134.10	123.75	118.85	113.55	109.30
.5312	17/32	.4355	6	2	5/8	8	340717	340817	340917	112.40	.5031 - .5340	174.25	143.20	133.00	127.90	122.75	118.45
.5625	9/16	.4355	6	2	5/8	8	340718	340818	340918	112.40	.5341 - .5660	174.25	143.20	133.00	127.90	122.75	118.45
.5938	19/32	.4355	6	2	5/8	8	340719	340819	340919	117.05	.5661 - .5970	178.85	147.85	137.45	132.55	127.25	123.00
.6250	5/8	.5615	6	2 1/4	5/8	9	340720	340820	340920	117.05	.5971 - .6280	178.85	147.85	137.45	132.55	127.25	123.00
.6562	21/32	.5615	6	2 1/4	5/8	9	340721	340821	340921	119.00	.6281 - .6590	181.00	149.85	139.40	134.55	129.20	125.10
.6875	11/16	.5615	6	2 1/4	5/8	9	340722	340822	340922	119.00	.6591 - .6910	181.00	149.85	139.40	134.55	129.20	125.10
.7188	23/32	.5615	6	2 1/4	5/8	9	340723	340823	340923	124.65	.6911 - .7220	186.50	155.35	145.15	140.10	134.85	130.65
.7500	3/4	.6245	6	2 1/2	3/4	9 1/2	340724	340824	340924	124.65	.7221 - .7530	186.50	155.35	145.15	140.10	134.85	130.65
.7812	25/32	.6245	6	2 1/2	3/4	9 1/2	340725	340825	340925	128.60	.7531 - .7840	190.50	159.50	149.10	144.10	138.80	134.80
.8125	13/16	.6245	6	2 1/2	3/4	9 1/2	340726	340826	340926	128.60	.7841 - .8160	190.50	159.50	149.10	144.10	138.80	134.80
.8438	27/32	.6245	6	2 1/2	3/4	9 1/2	340727	340827	340927	133.80	.8161 - .8470	195.60	164.65	154.40	149.40	144.00	139.95
.8750	7/8	.7495	6	2 5/8	3/4	10	340728	340828	340928	138.80	.8471 - .8780	203.05	170.85	160.05	155.05	149.60	145.25
.9062	29/32	.7495	6	2 5/8	3/4	10	340729	340829	340929	161.70	.8781 - .9090	225.90	193.70	183.05	177.90	172.30	167.90
.9375	15/16	.7495	8	2 5/8	3/4	10	340730	340830	340930	161.70	.9091 - .9410	225.90	193.70	183.05	177.90	172.30	167.90
.9688	31/32	.7495	8	2 5/8	3/4	10	340731	340831	340931	169.35	.9411 - .9720	233.55	201.30	190.65	185.35	179.85	175.45
1.0000	1	.8745	8	2 3/4	3/4	10 1/2	340732	340832	340932	169.35	.9721 - 1.0030	233.55	201.30	190.65	185.35	179.85	175.45
1.0625	1 1/16	.8745	8	2 3/4	3/4	10 1/2	340734	340834	340934	175.30	1.0031 - 1.0660	236.85	206.15	195.75	190.80	185.45	181.35
1.1250	1 1/8	.8745	8	2 7/8	7/8	11	340736	340836	340936	189.60	1.0661 - 1.1280	251.05	220.20	210.00	204.95	199.75	195.60
1.1875	1 3/16	.9995	8	2 7/8	7/8	11	340738	340838	340938	199.20	1.1281 - 1.1905	260.75	230.05	219.70	214.70	209.40	205.40
1.2500	1 1/4	.9995	8	3	7/8	11 1/2	340740	340840	340940	210.55	1.1906 - 1.2530	272.15	241.40	230.95	226.05	220.85	216.65
1.3125	1 5/16	.9995	8	3	7/8	11 1/2	340742	340842	340942	221.60	1.2531 - 1.3155	283.20	252.50	242.05	237.15	231.80	227.65
1.3750	1 3/8	.9995	8	3 1/4	7/8	12	340744	340844	340944	235.10	1.3156 - 1.3780	296.80	265.90	255.45	250.70	245.15	241.15
1.4375	1 7/16	.9995	8	3 1/4	7/8	12	340746	340846	340946	262.05	1.3781 - 1.4405	323.80	292.70	282.50	277.70	272.25	268.25
1.5000	1 1/2	1.2495	8	3 1/2	7/8	12 1/2	340748	340848	340948	277.00	1.4406 - 1.5030	338.60	307.75	297.35	292.55	287.20	283.05

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CARBIDE TIPPED NAS 897 CHUCKING REAMERS

METRIC

TYPE 3407 - STRAIGHT SHANK - STRAIGHT FLUTES - FOR NON-FERROUS
TYPE 3408 - STRAIGHT SHANK - STRAIGHT FLUTES - FOR CAST IRON
TYPE 3409 - STRAIGHT SHANK - STRAIGHT FLUTES - FOR STEEL



Detailed description and fractional sizes on page 92. Tolerances on page 60.
 Tool diameter in millimeters with all other dimensions in inches.

TOOL DIAMETER		MAX. SHANK DIAM.	NO. OF FLTS.	LENGTH			NON-FERR. TYPE 3407 EDP NO.	CAST IRON TYPE 3408 EDP NO.	STEEL TYPE 3409 EDP NO.	ALL TYPES PRICE	METRIC SIZE RANGE	PRICE EACH - FINISHED TO METRIC SIZE						
mm	INCH			FLT	CARB	OAL						1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
4.0	.1575	.1510	4	1	½	4	3407040	3408040	3409040	\$97.90	3.962 - 4.493	\$141.45	\$112.55	\$102.95	\$98.20	\$93.35	\$89.45	\$83.75
4.5	.1772	.1704	4	1 ⅛	½	4 ½	3407045	3408045	3409045	90.95	4.494 - 4.696	133.20	105.25	95.80	91.25	86.40	82.65	77.20
5.0	.1969	.1805	4	1 ⅛	½	4 ½	3407050	3408050	3409050	90.95	4.697 - 5.182	133.20	105.25	95.80	91.25	86.40	82.65	77.20
5.5	.2165	.2075	4	1 ¼	½	5	3407055	3408055	3409055	90.95	5.183 - 5.613	133.20	105.25	95.80	91.25	86.40	82.65	77.20
6.0	.2362	.2265	4	1 ½	½	6	3407060	3408060	3409060	95.25	5.614 - 6.045	137.60	109.55	100.10	95.50	90.85	86.95	81.55
-	-	.2405	4	1 ½	½	6	3407063	3408063	3409063	-	6.046 - 6.426	133.80	105.70	96.15	91.65	86.95	83.00	77.55
6.5	.2559	.2485	4	1 ½	½	6	3407065	3408065	3409065	93.00	6.427 - 7.214	135.25	107.20	97.70	93.15	88.30	84.45	79.15
7.0	.2756	.2485	4	1 ½	½	6	3407070	3408070	3409070	93.00	-	-	-	-	-	-	-	-
7.5	.2953	.2792	4	1 ½	½	6	3407075	3408075	3409075	93.00	7.215 - 8.001	135.25	107.20	97.70	93.15	88.30	84.45	79.15
7.5	.2953	.2792	6	1 ½	½	6	3407078	3408078	3409078	100.15	7.215 - 8.001	142.65	114.70	105.15	100.45	95.80	91.80	86.40
8.0	.3150	.2792	4	1 ½	½	6	3407080	3408080	3409080	93.00	-	-	-	-	-	-	-	-
8.0	.3150	.2792	6	1 ½	½	6	3407083	3408083	3409083	100.15	-	-	-	-	-	-	-	-
8.5	.3346	.2792	4	1 ½	⅝	6	3407085	3408085	3409085	95.70	8.002 - 8.814	137.80	109.90	100.45	95.95	91.25	87.25	81.85
8.5	.3346	.2792	6	1 ½	⅝	6	3407088	3408088	3409088	103.20	8.002 - 8.814	145.55	117.50	108.05	103.55	98.75	94.90	89.50
9.0	.3543	.3105	4	1 ¾	⅝	7	3407090	3408090	3409090	87.85	8.815 - 9.601	126.55	100.85	92.10	88.00	83.70	80.15	75.15
9.0	.3543	.3105	6	1 ¾	⅝	7	3407093	3408093	3409093	94.80	8.815 - 9.601	133.60	107.75	99.20	94.95	90.65	87.00	82.05
9.5	.3740	.3105	4	1 ¾	⅝	7	3407095	3408095	3409095	87.85	-	-	-	-	-	-	-	-
9.5	.3740	.3105	6	1 ¾	⅝	7	3407098	3408098	3409098	94.80	-	-	-	-	-	-	-	-
10.0	.3937	.3105	4	1 ¾	⅝	7	3407100	3408100	3409100	99.40	9.602 - 10.389	141.75	113.65	104.20	99.55	94.90	90.95	85.60
10.0	.3937	.3105	6	1 ¾	⅝	7	3407103	3408103	3409103	104.80	9.602 - 10.389	147.10	119.00	109.55	104.95	100.15	96.25	90.95
10.5	.4134	.3730	6	1 ¾	⅝	7	3407105	3408105	3409105	104.80	10.390 - 11.201	147.10	119.00	109.55	104.95	100.15	96.25	90.95
11.0	.4331	.3730	6	1 ¾	⅝	7	3407110	3408110	3409110	104.80	-	-	-	-	-	-	-	-
11.5	.4528	.3730	6	1 ¾	⅝	7	3407115	3408115	3409115	106.00	11.202 - 11.989	148.25	120.20	110.85	106.15	101.45	97.50	92.10
12.0	.4724	.4355	6	2	⅝	8	3407120	3408120	3409120	123.75	11.990 - 12.776	170.40	139.40	129.10	124.05	118.85	114.70	108.70
12.5	.4921	.4355	6	2	⅝	8	3407125	3408125	3409125	123.75	-	-	-	-	-	-	-	-
13.0	.5118	.4355	6	2	⅝	8	3407130	3408130	3409130	133.00	12.777 - 13.564	179.55	148.70	138.20	133.15	127.90	123.60	117.70
13.5	.5315	.4355	6	2	⅝	8	3407135	3408135	3409135	133.00	-	-	-	-	-	-	-	-
14.0	.5512	.4355	6	2	⅝	8	3407140	3408140	3409140	133.00	13.565 - 14.376	179.55	148.70	138.20	133.15	127.90	123.60	117.70
14.5	.5709	.4355	6	2	⅝	8	3407145	3408145	3409145	137.45	14.377 - 15.164	184.10	153.15	142.80	137.65	132.55	128.20	122.15
15.0	.5906	.4355	6	2	⅝	8	3407150	3408150	3409150	137.45	-	-	-	-	-	-	-	-
15.5	.6102	.5615	6	2 ¼	⅝	9	3407155	3408155	3409155	137.45	15.165 - 15.951	184.10	153.15	142.80	137.65	132.55	128.20	122.15
16.0	.6299	.5615	6	2 ¼	⅝	9	3407160	3408160	3409160	139.40	15.952 - 16.739	186.20	155.15	144.85	139.65	134.55	130.10	124.30
16.5	.6496	.5615	6	2 ¼	⅝	9	3407165	3408165	3409165	139.40	-	-	-	-	-	-	-	-
17.0	.6693	.5615	6	2 ¼	⅝	9	3407170	3408170	3409170	139.40	16.740 - 17.551	186.20	155.15	144.85	139.65	134.55	130.10	124.30
17.5	.6890	.5615	6	2 ¼	⅝	9	3407175	3408175	3409175	139.40	-	-	-	-	-	-	-	-
18.0	.7087	.5615	6	2 ¼	⅝	9	3407180	3408180	3409180	145.15	17.552 - 18.339	191.55	160.75	150.50	145.40	140.10	135.85	129.80
19.0	.7480	.6245	6	2 ½	¾	9 ½	3407190	3408190	3409190	145.15	18.340 - 19.126	191.55	160.75	150.50	145.40	140.10	135.85	129.80
19.5	.7677	.6245	6	2 ½	¾	9 ½	3407195	3408195	3409195	149.10	19.127 - 19.914	195.60	164.75	154.45	149.40	144.10	139.95	133.95
20.0	.7874	.6245	6	2 ½	¾	9 ½	3407200	3408200	3409200	149.10	19.915 - 20.726	195.60	164.75	154.45	149.40	144.10	139.95	133.95
21.0	.8268	.6245	6	2 ½	¾	9 ½	3407210	3408210	3409210	154.40	20.727 - 21.514	200.80	170.00	159.60	154.55	149.40	145.15	139.10
22.0	.8661	.7495	6	2 ⅝	¾	10	3407220	3408220	3409220	154.40	21.515 - 22.301	200.80	170.00	159.60	154.55	149.40	145.15	139.10
23.0	.9055	.7495	6	2 ⅝	¾	10	3407230	3408230	3409230	183.05	22.302 - 23.089	231.20	199.20	188.45	183.20	177.90	173.35	167.30
23.5	.9252	.7495	8	2 ⅝	¾	10	3407235	3408235	3409235	183.05	23.090 - 23.901	231.20	199.20	188.45	183.20	177.90	173.35	167.30
24.0	.9449	.7495	8	2 ⅝	¾	10	3407240	3408240	3409240	190.65	23.902 - 24.689	238.90	206.85	196.20	190.90	185.35	181.05	174.85
25.0	.9843	.8745	8	2 ¾	¾	10 ½	3407250	3408250	3409250	190.65	24.690 - 25.476	238.90	206.85	196.20	190.90	185.35	181.05	174.85
26.0	1.0236	.8745	8	2 ¾	¾	10 ½	3407260	3408260	3409260	195.75	25.477 - 27.076	242.05	211.40	201.10	195.95	190.80	186.50	180.60
27.0	1.0630	.8745	8	2 ¾	¾	10 ½	3407270	3408270	3409270	195.75	-	-	-	-	-	-	-	-
28.0	1.1024	.8745	8	2 ⅞	⅞	11	3407280	3408280	3409280	210.00	27.077 - 28.651	256.20	225.60	215.25	210.15	204.95	200.70	194.80
29.0	1.1417	.9995	8	2 ⅞	⅞	11	3407290	3408290	3409290	219.70	28.652 - 30.239	265.95	235.20	224.85	219.85	214.70	210.40	204.65
30.0	1.1811	.9995	8	2 ⅞	⅞	11	3407300	3408300	3409300	219.70	-	-	-	-	-	-	-	-
31.0	1.2205	.9995	8	3	⅞	11 ½	3407310	3408310	3409310	230.95	30.240 - 31.826	277.15	246.60	236.40	231.20	226.05	221.65	215.85
32.0	1.2598	.9995	8	3	⅞	11 ½	3407320	3408320	3409320	242.05	31.827 - 33.414	288.40	257.55	247.35	242.30	237.15	232.85	226.90
33.0	1.2992	.9995	8	3	⅞	11 ½	3407330	3408330	3409330	242.05	-	-	-	-	-	-	-	-
34.0	1.3386	.9995	8	3 ¼	⅞	12	3407340	3408340	3409340	255.45	33.415 - 35.001	301.85	271.20	260.75	255.90	250.70	246.40	240.40
35.0	1.3780	.9995	8	3 ¼	⅞	12	3407350	3408350	3409350	255.45	-	-	-	-	-	-	-	-
36.0	1.4173	.9995	8	3 ¼	⅞	12	3407360	3408360	3409360	282.50	35.002 - 36.589	328.70	298.10	287.80	282.65	277.70	273.35	267.30
37.0	1.4567	1.2495	8	3 ½	⅞	12 ½	3407370	3408370	3409370	297.35	36.590 - 38.176	343.90	313.00	302.85	297.80	292.55	288.35	282.35

CARBIDE TIPPED NAS 897 CHUCKING REAMERS

TYPE 3457 - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR NON-FERROUS

TYPE 3458 - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR CAST IRON

TYPE 3459 - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR STEEL

Flute long carbide tips brazed to one piece hardened alloy steel bodies. Straight polished flutes.

NAS 897 chucking reamers manufactured to national aerospace standards 897 C with flute length carbide. Tool geometry and carbide grade appropriate for material being machined. For step reamers, see page 124. For longer overall length reamers, see page 118.



For reamer tolerances and closer tolerance pricing, see page 60.

Shanks are ground to the next smallest shank diameter listed in NAS 897 if tool diameter is within .005" of shank diameter.

TOOL DIAMETER		MAX. SHANK DIAM.	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3457 EDP NO.	CAST IRON TYPE 3458 EDP NO.	STEEL TYPE 3459 EDP NO.	ALL TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DEC.	FRACTIONAL			FLT.	OAL						1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.1875	3/16	.1805	4	1 1/8	4 1/2	345706	345806	345906	\$86.40	.1770 - .2040	\$144.15	\$115.30	\$105.55	\$101.00	\$96.10	\$92.10
.2188	7/32	.2075	4	1 1/4	5	345707	345807	345907	86.40	.2041 - .2210	144.15	115.30	105.55	101.00	96.10	92.10
.2344	15/64	.2265	4	1 1/2	6	34572344	34582344	34592344	86.40	.2211 - .2380	144.15	115.30	105.55	101.00	96.10	92.10
.2500	1/4	.2405	4	1 1/2	6	345708	345808	345908	86.40	.2381 - .2530	144.15	115.30	105.55	101.00	96.10	92.10
.2812	9/32	.2485	4	1 1/2	6	345709	345809	345909	88.30	.2531 - .2840	146.05	117.25	107.45	102.95	97.90	94.10
.3125	5/16	.2792	4	1 1/2	6	345710	345810	345910	88.30	.2841 - .3150	146.05	117.25	107.45	102.95	97.90	94.10
.3438	11/32	.2792	4	1 1/2	6	345711	345811	345911	91.55	.3151 - .3470	149.40	120.30	110.70	106.05	101.25	97.30
.3750	3/8	.3105	4	1 3/4	7	345712	345812	345912	91.55	.3471 - .3780	149.40	120.30	110.70	106.05	101.25	97.30
.4062	13/32	.3105	4	1 3/4	7	345713	345813	345913	96.10	.3781 - .4090	153.70	124.90	115.20	110.60	105.55	101.70
.4375	7/16	.3730	6	1 3/4	7	345714	345814	345914	103.95	.4091 - .4410	161.70	132.85	123.10	118.45	113.55	109.55
.4688	15/32	.3730	6	1 3/4	7	345715	345815	345915	112.25	.4411 - .4720	170.20	141.05	131.55	126.95	121.85	118.00
.5000	1/2	.4355	6	2	8	345716	345816	345916	120.30	.4721 - .5030	182.25	151.30	140.90	135.95	130.65	126.50
.5312	17/32	.4355	6	2	8	345717	345817	345917	123.75	.5031 - .5340	185.65	154.60	144.15	139.35	134.05	129.80
.5625	9/16	.4355	6	2	8	345718	345818	345918	123.75	.5341 - .5660	185.65	154.60	144.15	139.35	134.05	129.80
.5938	19/32	.4355	6	2	8	345719	345819	345919	128.45	.5661 - .5970	190.35	159.45	148.95	144.00	138.75	134.55
.6250	5/8	.5615	6	2 1/4	9	345720	345820	345920	128.45	.5971 - .6280	190.35	159.45	148.95	144.00	138.75	134.55
.6562	21/32	.5615	6	2 1/4	9	345721	345821	345921	130.85	.6281 - .6590	192.85	161.80	151.35	146.45	141.05	137.00
.6875	11/16	.5615	6	2 1/4	9	345722	345822	345922	130.85	.6591 - .6910	192.85	161.80	151.35	146.45	141.05	137.00
.7188	23/32	.5615	6	2 1/4	9	345723	345823	345923	136.85	.6911 - .7220	198.75	167.60	157.45	152.50	147.10	142.90
.7500	3/4	.6245	6	2 1/2	9 1/2	345724	345824	345924	136.85	.7221 - .7530	198.75	167.60	157.45	152.50	147.10	142.90
.7812	25/32	.6245	6	2 1/2	9 1/2	345725	345825	345925	141.65	.7531 - .7840	203.35	172.35	162.00	156.95	151.75	147.50
.8125	13/16	.6245	6	2 1/2	9 1/2	345726	345826	345926	141.65	.7841 - .8160	203.35	172.35	162.00	156.95	151.75	147.50
.8438	27/32	.6245	6	2 1/2	9 1/2	345727	345827	345927	147.25	.8161 - .8470	209.05	177.95	167.60	162.85	157.55	153.25
.8750	7/8	.7495	6	2 5/8	10	345728	345828	345928	152.85	.8471 - .8780	216.90	184.75	174.05	168.90	163.30	159.00
.9062	29/32	.7495	6	2 5/8	10	345729	345829	345929	177.90	.8781 - .9090	242.15	210.00	199.05	194.00	188.45	184.10
.9375	15/16	.7495	8	2 5/8	10	345730	345830	345930	177.90	.9091 - .9410	242.15	210.00	199.05	194.00	188.45	184.10
.9688	31/32	.7495	8	2 5/8	10	345731	345831	345931	186.45	.9411 - .9720	250.70	218.55	207.60	202.45	197.00	192.65
1.0000	1	.8745	8	2 3/4	10 1/2	345732	345832	345932	186.45	.9721 - 1.0030	250.70	218.55	207.60	202.45	197.00	192.65
1.0625	1 1/16	.8745	8	2 3/4	10 1/2	345734	345834	345934	192.70	1.0031 - 1.0660	254.30	223.30	213.20	208.20	202.90	198.85
1.1250	1 1/8	.8745	8	2 7/8	11	345736	345836	345936	208.80	1.0661 - 1.1280	270.25	239.45	229.05	224.25	218.95	214.70
1.1875	1 3/16	.9995	8	2 7/8	11	345738	345838	345938	218.20	1.1281 - 1.1905	279.80	249.05	238.65	233.85	228.45	224.30
1.2500	1 1/4	.9995	8	3	11 1/2	345740	345840	345940	235.80	1.1906 - 1.2530	297.35	266.70	256.20	251.45	246.10	241.90
1.3125	1 5/16	.9995	8	3	11 1/2	345742	345842	345942	242.35	1.2531 - 1.3155	304.00	273.20	262.80	257.95	252.65	248.40
1.3750	1 3/8	.9995	8	3 1/4	12	345744	345844	345944	258.55	1.3156 - 1.3780	320.00	289.25	278.95	274.15	268.60	264.70
1.4375	1 7/16	.9995	8	3 1/4	12	345746	345846	345946	280.00	1.3781 - 1.4405	341.55	310.70	300.35	295.35	290.25	286.00
1.5000	1 1/2	1.2495	8	3 1/2	12 1/2	345748	345848	345948	288.10	1.4406 - 1.5030	349.65	318.80	308.50	303.60	298.40	294.25
1.5625	1 5/8	1.2495	8	3 1/2	12 1/2	345750	345850	345950	452.55	1.5031 - 1.5660	514.25	483.45	473.10	468.10	462.80	458.60
1.6250	1 3/4	1.2495	8	3 1/2	13	345752	345852	345952	468.05	1.5661 - 1.6280	529.75	498.95	488.60	483.70	478.30	474.15
1.6875	1 7/8	1.2495	8	3 1/2	13	345754	345854	345954	513.95	1.6281 - 1.6910	575.60	544.85	534.40	529.60	524.20	520.05
1.7500	1 3/4	1.2495	10	3 1/2	13 1/2	345756	345856	345956	513.95	1.6911 - 1.7530	575.60	544.85	534.40	529.60	524.20	520.05
1.8125	1 13/16	1.4995	10	3 1/2	13 1/2	345758	345858	345958	525.95	1.7531 - 1.8160	587.55	556.80	546.45	541.50	536.10	532.05
1.8750	1 7/8	1.4995	10	3 1/2	14	345760	345860	345960	551.60	1.8161 - 1.8780	613.25	582.40	572.00	567.25	561.85	557.70
1.9375	1 15/16	1.4995	10	3 1/2	14	345762	345862	345962	584.70	1.8781 - 1.9410	646.40	615.55	605.25	600.35	594.95	590.90
2.0000	2	1.4995	12	3 1/2	14	345764	345864	345964	583.85	1.9411 - 2.0030	645.60	614.70	604.50	599.50	594.20	590.05
2.1250	2 1/8	1.4995	12	3 1/2	14 1/2	345768	345868	345968	1084.85	2.0031 - 2.1280	1146.55	1115.65	1105.25	1100.50	1095.05	1091.00
2.2500	2 1/4	1.7495	12	3 1/2	14 1/2	345772	345872	345972	1165.15	2.1281 - 2.2530	1226.85	1195.90	1185.70	1180.80	1175.45	1171.35
2.3750	2 3/8	1.7495	12	3 1/2	15	345776	345876	345976	1205.65	2.2531 - 2.3780	1267.30	1236.45	1226.10	1221.30	1215.85	1211.80
2.5000	2 1/2	1.7495	12	3 1/2	15	345780	345880	345980	1205.65	2.3781 - 2.5030	1267.30	1236.45	1226.10	1221.30	1215.85	1211.80

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CARBIDE TIPPED NAS 897 CHUCKING REAMERS

METRIC

TYPE 3457 - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR NON-FERROUS
TYPE 3458 - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR CAST IRON
TYPE 3459 - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR STEEL



Detailed description and fractional sizes on page 94. Tolerances on page 60.
 Tool diameter in millimeters with all other dimensions in inches.

TOOL DIAMETER		MAX. SHANK DIAM.	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3457 EDP NO.	CAST IRON TYPE 3458 EDP NO.	STEEL TYPE 3459 EDP NO.	ALL TYPES PRICE	METRIC SIZE RANGE	PRICE EACH - FINISHED TO METRIC SIZE						
mm	INCH			FLUTE	OVER-ALL						1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
4.5	.1772	.1704	4	1 1/8	4 1/2	3457045	3458045	3459045	\$105.55	4.494 - 4.696	\$149.00	\$120.20	\$110.60	\$105.90	\$101.00	\$97.00	\$91.50
5.0	.1969	.1805	4	1 1/8	4 1/2	3457050	3458050	3459050	105.55	4.697 - 5.182	149.00	120.20	110.60	105.90	101.00	97.00	91.50
5.5	.2165	.2075	4	1 1/4	5	3457055	3458055	3459055	105.55	5.183 - 5.613	149.00	120.20	110.60	105.90	101.00	97.00	91.50
6.0	.2362	.2265	4	1 1/2	6	3457060	3458060	3459060	105.55	5.614 - 6.045	149.00	120.20	110.60	105.90	101.00	97.00	91.50
-	-	.2405	4	1 1/2	6	3457063	3458063	3459063	-	6.046 - 6.426	149.00	120.20	110.60	105.90	101.00	97.00	91.50
6.5	.2559	.2485	4	1 1/2	6	3457065	3458065	3459065	107.45	6.427 - 7.214	150.95	122.00	112.40	107.65	102.95	98.80	93.35
7.0	.2756	.2485	4	1 1/2	6	3457070	3458070	3459070	107.45	-	-	-	-	-	-	-	-
7.5	.2953	.2792	4	1 1/2	6	3457075	3458075	3459075	107.45	7.215 - 8.001	150.95	122.00	112.40	107.65	102.95	98.80	93.35
8.0	.3150	.2792	4	1 1/2	6	3457080	3458080	3459080	107.45	-	-	-	-	-	-	-	-
8.5	.3346	.2792	4	1 1/2	6	3457085	3458085	3459085	110.70	8.002 - 8.814	154.30	125.25	115.60	110.90	106.05	102.05	96.45
9.0	.3543	.3105	4	1 3/4	7	3457090	3458090	3459090	110.70	8.815 - 9.601	154.30	125.25	115.60	110.90	106.05	102.05	96.45
9.5	.3740	.3105	4	1 3/4	7	3457095	3458095	3459095	110.70	-	-	-	-	-	-	-	-
10.0	.3937	.3105	4	1 3/4	7	3457100	3458100	3459100	115.20	9.602 - 10.389	158.60	129.80	120.05	115.35	110.60	106.50	101.00
10.5	.4134	.3730	6	1 3/4	7	3457105	3458105	3459105	123.10	10.390 - 11.201	166.55	137.65	128.05	123.25	118.45	114.40	109.00
11.0	.4331	.3730	6	1 3/4	7	3457110	3458110	3459110	123.10	-	-	-	-	-	-	-	-
11.5	.4528	.3730	6	1 3/4	7	3457115	3458115	3459115	131.55	11.202 - 11.989	175.10	146.05	136.55	131.70	126.95	122.95	117.35
12.0	.4724	.4355	6	2	8	3457120	3458120	3459120	140.90	11.990 - 12.776	187.50	156.55	146.20	141.05	135.95	131.60	125.80
12.5	.4921	.4355	6	2	8	3457125	3458125	3459125	140.90	-	-	-	-	-	-	-	-
13.0	.5118	.4355	6	2	8	3457130	3458130	3459130	144.15	12.777 - 13.564	190.95	159.95	149.60	144.45	139.35	135.00	129.10
13.5	.5315	.4355	6	2	8	3457135	3458135	3459135	144.15	-	-	-	-	-	-	-	-
14.0	.5512	.4355	6	2	8	3457140	3458140	3459140	144.15	13.565 - 14.376	190.95	159.95	149.60	144.45	139.35	135.00	129.10
14.5	.5709	.4355	6	2	8	3457145	3458145	3459145	148.95	14.377 - 15.164	195.50	164.65	154.40	149.30	144.00	139.65	133.80
15.0	.5906	.4355	6	2	8	3457150	3458150	3459150	148.95	-	-	-	-	-	-	-	-
15.5	.6102	.5615	6	2 1/4	9	3457155	3458155	3459155	148.95	15.165 - 15.951	195.50	164.65	154.40	149.30	144.00	139.65	133.80
16.0	.6299	.5615	6	2 1/4	9	3457160	3458160	3459160	151.35	15.952 - 16.739	198.00	167.15	156.70	151.65	146.45	142.15	136.10
16.5	.6496	.5615	6	2 1/4	9	3457165	3458165	3459165	151.35	-	-	-	-	-	-	-	-
17.0	.6693	.5615	6	2 1/4	9	3457170	3458170	3459170	151.35	16.740 - 17.551	198.00	167.15	156.70	151.65	146.45	142.15	136.10
17.5	.6890	.5615	6	2 1/4	9	3457175	3458175	3459175	151.35	-	-	-	-	-	-	-	-
18.0	.7087	.5615	6	2 1/4	9	3457180	3458180	3459180	157.45	17.552 - 18.339	203.80	172.90	162.75	157.65	152.50	148.00	142.15
18.5	.7283	.6245	6	2 1/2	9 1/2	3457185	3458185	3459185	157.45	18.340 - 19.126	203.80	172.90	162.75	157.65	152.50	148.00	142.15
19.0	.7480	.6245	6	2 1/2	9 1/2	3457190	3458190	3459190	157.45	-	-	-	-	-	-	-	-
19.5	.7677	.6245	6	2 1/2	9 1/2	3457195	3458195	3459195	162.00	19.127 - 19.914	208.65	177.75	167.30	162.25	156.95	152.80	146.90
20.0	.7874	.6245	6	2 1/2	9 1/2	3457200	3458200	3459200	162.00	19.915 - 20.726	208.65	177.75	167.30	162.25	156.95	152.80	146.90
20.5	.8071	.6245	6	2 1/2	9 1/2	3457205	3458205	3459205	162.00	-	-	-	-	-	-	-	-
21.0	.8268	.6245	6	2 1/2	9 1/2	3457210	3458210	3459210	167.60	20.727 - 21.514	214.40	183.35	172.90	167.90	162.85	158.45	152.65
21.5	.8465	.6245	6	2 1/2	9 1/2	3457215	3458215	3459215	167.60	-	-	-	-	-	-	-	-
22.0	.8661	.7495	6	2 5/8	10	3457220	3458220	3459220	167.60	21.515 - 22.301	214.40	183.35	172.90	167.90	162.85	158.45	152.65
22.5	.8858	.7495	6	2 5/8	10	3457225	3458225	3459225	199.05	22.302 - 23.089	247.45	215.40	204.70	199.35	194.00	189.60	183.25
23.0	.9055	.7495	6	2 5/8	10	3457230	3458230	3459230	199.05	-	-	-	-	-	-	-	-
23.5	.9252	.7495	8	2 5/8	10	3457235	3458235	3459235	199.05	23.090 - 23.901	247.45	215.40	204.70	199.35	194.00	189.60	183.25
24.0	.9449	.7495	8	2 5/8	10	3457240	3458240	3459240	207.60	23.902 - 24.689	256.05	224.00	213.25	208.00	202.45	198.05	191.80
24.5	.9646	.7495	8	2 5/8	10	3457245	3458245	3459245	207.60	-	-	-	-	-	-	-	-
25.0	.9843	.8745	8	2 3/4	10 1/2	3457250	3458250	3459250	207.60	24.690 - 25.476	256.05	224.00	213.25	208.00	202.45	198.05	191.80
25.5	1.0039	.8745	8	2 3/4	10 1/2	3457255	3458255	3459255	213.20	25.477 - 27.076	259.40	228.85	218.35	213.35	208.20	203.80	198.00
26.0	1.0236	.8745	8	2 3/4	10 1/2	3457260	3458260	3459260	213.20	-	-	-	-	-	-	-	-
27.0	1.0630	.8745	8	2 3/4	10 1/2	3457270	3458270	3459270	213.20	-	-	-	-	-	-	-	-
28.0	1.1024	.8745	8	2 7/8	11	3457280	3458280	3459280	229.05	27.077 - 28.651	275.35	244.80	234.35	229.20	224.25	219.85	213.85
29.0	1.1417	.9995	8	2 7/8	11	3457290	3458290	3459290	238.65	28.652 - 30.239	284.95	254.30	244.05	238.90	233.85	229.35	223.40
30.0	1.1811	.9995	8	2 7/8	11	3457300	3458300	3459300	238.65	-	-	-	-	-	-	-	-
31.0	1.2205	.9995	8	3	11 1/2	3457310	3458310	3459310	256.20	30.240 - 31.826	302.70	271.85	261.60	256.50	251.45	247.00	241.15
32.0	1.2598	.9995	8	3	11 1/2	3457320	3458320	3459320	262.80	31.827 - 33.414	309.15	278.35	268.25	263.10	257.95	253.65	247.65
33.0	1.2992	.9995	8	3	11 1/2	3457330	3458330	3459330	262.80	-	-	-	-	-	-	-	-
34.0	1.3386	.9995	8	3 1/4	12	3457340	3458340	3459340	278.95	33.415 - 35.001	325.25	294.55	284.25	279.20	274.15	269.75	263.85
35.0	1.3780	.9995	8	3 1/4	12	3457350	3458350	3459350	278.95	-	-	-	-	-	-	-	-
36.0	1.4173	.9995	8	3 1/4	12	3457360	3458360	3459360	300.35	35.002 - 36.589	346.65	316.00	305.60	300.60	295.35	291.05	285.25
37.0	1.4567	1.2495	8	3 1/2	12 1/2	3457370	3458370	3459370	308.50	36.590 - 38.176	354.85	324.10	313.90	308.65	303.60	299.20	293.50
38.0	1.4961	1.2495	8	3 1/2	12 1/2	3457380	3458380	3459380	308.50	-	-	-	-	-	-	-	-

CARBIDE TIPPED NAS 897 CHUCKING REAMERS

TYPE 3472 - TAPER SHANK - STRAIGHT FLUTES - FOR NON-FERROUS

TYPE 3473 - TAPER SHANK - STRAIGHT FLUTES - FOR CAST IRON

TYPE 3474 - TAPER SHANK - STRAIGHT FLUTES - FOR STEEL

Carbide tips brazed to one piece hardened alloy steel bodies. Straight polished flutes.

NAS 897 chucking reamers manufactured to national aerospace standards 897 C with partial flute length carbide. Tool geometry and carbide grade appropriate for material being machined.



For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MORSE TAPER NO.	NO. OF FLTS.	LENGTH			NON-FERR. TYPE 3472 EDP NO.	CAST IRON TYPE 3473 EDP NO.	STEEL TYPE 3474 EDP NO.	ALL TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DEC.	FRACTION			FLT.	CARB.	OAL.						1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.2500	1/4	1	4	1 1/2	1/2	6	347208	347308	347408	\$83.40	.2381 - .2530	\$139.50	\$111.45	\$102.00	\$97.45	\$92.75	\$89.00
.2812	9/32	1	4	1 1/2	1/2	6	347209	347309	347409	84.75	.2531 - .2840	140.90	112.70	103.35	98.80	94.10	90.25
.3125	5/16	1	4	1 1/2	1/2	6	347210	347310	347410	84.75	.2841 - .3150	140.90	112.70	103.35	98.80	94.10	90.25
.3438	11/32	1	4	1 1/2	5/8	6	347211	347311	347411	87.30	.3151 - .3470	143.55	115.35	106.00	101.45	96.75	93.00
.3750	3/8	1	4	1 3/4	5/8	7	347212	347312	347412	80.75	.3471 - .3780	132.20	106.45	97.85	93.60	89.35	85.75
.4062	13/32	1	4	1 3/4	5/8	7	347213	347313	347413	92.30	.3781 - .4090	148.50	120.30	110.90	106.45	101.70	97.90
.4375	7/16	1	6	1 3/4	5/8	7	347214	347314	347414	98.30	.4091 - .4410	154.55	126.40	117.05	112.40	107.50	103.80
.4688	15/32	1	6	1 3/4	5/8	7	347215	347315	347415	100.95	.4411 - .4720	157.10	128.95	119.60	115.05	110.30	106.45
.5000	1/2	1	6	2	5/8	8	347216	347316	347416	115.60	.4721 - .5030	177.45	146.45	136.00	131.10	125.85	121.65
.5312	17/32	1	6	2	5/8	8	347217	347317	347417	122.85	.5031 - .5340	184.70	153.55	143.20	138.50	133.05	128.90
.5625	9/16	1	6	2	5/8	8	347218	347318	347418	122.85	.5341 - .5660	184.70	153.55	143.20	138.50	133.05	128.90
.5938	19/32	1	6	2	5/8	8	347219	347319	347419	130.65	.5661 - .5970	192.50	161.40	151.10	146.20	140.90	136.75
.6250	5/8	2	6	2 1/4	5/8	9	347220	347320	347420	130.65	.5971 - .6280	192.50	161.40	151.10	146.20	140.90	136.75
.6562	21/32	2	6	2 1/4	5/8	9	347221	347321	347421	132.85	.6281 - .6590	194.65	163.65	153.25	148.25	143.05	138.80
.6875	11/16	2	6	2 1/4	5/8	9	347222	347322	347422	132.85	.6591 - .6910	194.65	163.65	153.25	148.25	143.05	138.80
.7188	23/32	2	6	2 1/4	5/8	9	347223	347323	347423	138.05	.6911 - .7220	200.05	168.95	158.60	153.55	148.25	144.10
.7500	3/4	2	6	2 1/2	3/4	9 1/2	347224	347324	347424	138.05	.7221 - .7530	200.05	168.95	158.60	153.55	148.25	144.10
.7812	25/32	2	6	2 1/2	3/4	9 1/2	347225	347325	347425	141.20	.7531 - .7840	203.30	172.30	161.85	156.85	151.65	147.40
.8125	13/16	2	6	2 1/2	3/4	9 1/2	347226	347326	347426	141.20	.7841 - .8160	203.30	172.30	161.85	156.85	151.65	147.40
.8438	27/32	2	6	2 1/2	3/4	9 1/2	347227	347327	347427	148.20	.8161 - .8470	210.15	179.00	168.80	163.85	158.45	154.40
.8750	7/8	2	6	2 5/8	3/4	10	347228	347328	347428	153.85	.8471 - .8780	218.05	185.80	175.15	169.95	164.45	160.05
.9062	29/32	2	6	2 5/8	3/4	10	347229	347329	347429	187.25	.8781 - .9090	251.45	219.25	208.35	203.35	197.75	193.55
.9375	15/16	3	8	2 5/8	3/4	10	347230	347330	347430	187.25	.9091 - .9410	251.45	219.25	208.35	203.35	197.75	193.55
.9688	31/32	3	8	2 5/8	3/4	10	347231	347331	347431	192.65	.9411 - .9720	256.95	224.70	213.85	208.90	203.35	199.00
1.0000	1	3	8	2 3/4	3/4	10 1/2	347232	347332	347432	192.65	.9721 - 1.0030	256.95	224.70	213.85	208.90	203.35	199.00
1.0625	1 1/16	3	8	2 3/4	3/4	10 1/2	347234	347334	347434	238.00	1.0031 - 1.0660	299.55	268.55	258.35	253.35	248.20	244.05
1.1250	1 1/8	3	8	2 7/8	7/8	11	347236	347336	347436	252.65	1.0661 - 1.1280	314.20	283.35	272.90	268.25	262.80	258.65
1.1875	1 3/16	3	8	2 7/8	7/8	11	347238	347338	347438	276.15	1.1281 - 1.1905	337.80	306.85	296.50	291.80	286.35	282.30
1.2500	1 1/4	4	8	3	7/8	11 1/2	347240	347340	347440	299.90	1.1906 - 1.2530	361.60	330.60	320.45	315.40	310.20	306.10
1.3125	1 5/16	4	8	3	7/8	11 1/2	347242	347342	347442	316.90	1.2531 - 1.3155	378.45	347.55	337.20	332.25	327.05	322.80
1.3750	1 3/8	4	8	3 1/4	7/8	12	347244	347344	347444	333.75	1.3156 - 1.3780	395.30	364.40	354.05	349.10	344.00	339.75
1.4375	1 7/16	4	8	3 1/4	7/8	12	347246	347346	347446	352.75	1.3781 - 1.4405	414.45	383.50	373.25	368.40	363.10	358.85
1.5000	1 1/2	4	8	3 1/2	7/8	12 1/2	347248	347348	347448	371.80	1.4406 - 1.5030	433.25	402.50	392.05	387.15	381.95	377.70
1.5625	1 5/8	4	8	3 1/2	7/8	12 1/2	347250	347350	347450	436.00	1.5031 - 1.5660	497.60	466.70	456.40	451.55	446.25	442.10
1.6250	1 5/8	4	8	3 3/4	7/8	13	347252	347352	347452	451.25	1.5661 - 1.6280	512.70	481.80	471.60	466.45	461.30	457.25
1.6875	1 11/16	4	8	3 3/4	7/8	13	347254	347354	347454	507.45	1.6281 - 1.6910	568.95	538.20	527.75	522.95	517.65	513.40
1.7500	1 3/4	4	10	4	7/8	13 1/2	347256	347356	347456	507.45	1.6911 - 1.7530	568.95	538.20	527.75	522.95	517.65	513.40
1.8125	1 13/16	4	10	4	7/8	13 1/2	347258	347358	347458	507.45	1.7531 - 1.8160	568.95	538.20	527.75	522.95	517.65	513.40
1.8750	1 7/8	4	10	4 1/4	7/8	14	347260	347360	347460	531.60	1.8161 - 1.8780	593.25	562.30	551.90	547.10	541.85	537.60
1.9375	1 15/16	4	10	4 1/4	7/8	14	347262	347362	347462	531.60	1.8781 - 1.9410	593.25	562.30	551.90	547.10	541.85	537.60
2.0000	2	4	12	4 1/4	7/8	14	347264	347364	347464	531.60	1.9411 - 2.0030	593.25	562.30	551.90	547.10	541.85	537.60

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CARBIDE TIPPED NAS 897 CHUCKING REAMERS

TYPE 3453 - TAPER SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR NON-FERROUS

TYPE 3454 - TAPER SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR CAST IRON

TYPE 3455 - TAPER SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR STEEL

Flute long carbide tips brazed to one piece alloy steel bodies. Straight polished flutes.

NAS 897 chucking reamers manufactured to national aerospace standards 897 C with flute long carbide. Tool geometry and carbide grade appropriate for material being machined.



For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MORSE TAPER	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3453 EDP NO.	CAST IRON TYPE 3454 EDP NO.	STEEL TYPE 3455 EDP NO.	ALL TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DEC.	FRAC.			FLT	OAL						1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.2500	1/4	1	4	1 1/2	6	345308	345408	345508	\$99.50	.2381 - .2530	\$157.25	\$128.20	\$118.55	\$114.00	\$109.10	\$105.25
.2812	9/32	1	4	1 1/2	6	345309	345409	345509	101.00	.2531 - .2840	158.75	129.80	120.05	115.50	110.60	106.80
.3125	5/16	1	4	1 1/2	6	345310	345410	345510	101.00	.2841 - .3150	158.75	129.80	120.05	115.50	110.60	106.80
.3438	11/32	1	4	1 1/2	6	345311	345411	345511	103.20	.3151 - .3470	161.10	132.05	122.55	117.80	112.80	109.00
.3750	3/8	1	4	1 3/4	7	345312	345412	345512	104.35	.3471 - .3780	162.25	133.20	123.60	119.00	114.00	110.15
.4062	13/32	1	4	1 3/4	7	345313	345413	345513	109.90	.3781 - .4090	167.55	138.75	128.95	124.35	119.45	115.50
.4375	7/16	1	6	1 3/4	7	345314	345414	345514	117.10	.4091 - .4410	174.85	145.75	136.10	131.60	126.65	122.85
.4688	15/32	1	6	1 3/4	7	345315	345415	345515	119.50	.4411 - .4720	177.30	148.40	138.75	134.05	129.10	125.20
.5000	1/2	1	6	2	8	345316	345416	345516	128.65	.4721 - .5030	190.65	159.60	149.30	144.15	139.05	134.85
.5312	17/32	1	6	2	8	345317	345417	345517	141.05	.5031 - .5340	203.05	172.00	161.55	156.70	151.35	147.25
.5625	9/16	1	6	2	8	345318	345418	345518	141.05	.5341 - .5660	203.05	172.00	161.55	156.70	151.35	147.25
.5938	19/32	1	6	2	8	345319	345419	345519	147.55	.5661 - .5970	209.65	178.65	168.35	163.20	157.95	153.70
.6250	5/8	2	6	2 1/4	9	345320	345420	345520	147.55	.5971 - .6280	209.65	178.65	168.35	163.20	157.95	153.70
.6562	21/32	2	6	2 1/4	9	345321	345421	345521	150.50	.6281 - .6590	212.30	181.20	170.85	165.80	160.65	156.50
.6875	11/16	2	6	2 1/4	9	345322	345422	345522	150.50	.6591 - .6910	212.30	181.20	170.85	165.80	160.65	156.50
.7188	23/32	2	6	2 1/4	9	345323	345423	345523	152.50	.6911 - .7220	214.40	183.25	172.80	167.90	162.75	158.45
.7500	3/4	2	6	2 1/2	9 1/2	345324	345424	345524	157.45	.7221 - .7530	219.25	188.15	177.80	172.80	167.55	163.30
.7812	25/32	2	6	2 1/2	9 1/2	345325	345425	345525	158.60	.7531 - .7840	220.45	189.45	179.00	174.20	168.90	164.65
.8125	13/16	2	6	2 1/2	9 1/2	345326	345426	345526	162.10	.7841 - .8160	224.00	193.10	182.80	177.75	172.35	168.35
.8438	27/32	2	6	2 1/2	9 1/2	345327	345427	345527	169.10	.8161 - .8470	231.05	200.20	189.75	184.75	179.55	175.30
.8750	7/8	2	6	2 5/8	10	345328	345428	345528	175.45	.8471 - .8780	239.80	207.60	196.95	191.70	186.35	181.90
.9062	29/32	2	6	2 5/8	10	345329	345429	345529	206.30	.8781 - .9090	270.40	238.35	227.50	222.40	216.80	212.60
.9375	15/16	3	8	2 5/8	10	345330	345430	345530	206.30	.9091 - .9410	270.40	238.35	227.50	222.40	216.80	212.60
.9688	31/32	3	8	2 5/8	10	345331	345431	345531	214.55	.9411 - .9720	278.65	246.55	235.65	230.65	225.20	220.85
1.0000	1	3	8	2 3/4	10 1/2	345332	345432	345532	214.55	.9721 - 1.0030	278.65	246.55	235.65	230.65	225.20	220.85
1.0625	1 1/16	3	8	2 3/4	10 1/2	345334	345434	345534	273.50	1.0031 - 1.0660	335.00	304.30	293.95	289.00	283.80	279.50
1.1250	1 1/8	3	8	2 7/8	11	345336	345436	345536	290.55	1.0661 - 1.1280	352.20	321.55	311.00	306.20	300.75	296.80
1.1875	1 3/16	3	8	2 7/8	11	345338	345438	345538	317.75	1.1281 - 1.1905	379.30	348.45	338.15	333.10	328.05	323.85
1.2500	1 1/4	4	8	3	11 1/2	345340	345440	345540	344.75	1.1906 - 1.2530	406.25	375.50	365.20	360.15	354.95	350.85
1.3125	1 5/16	4	8	3	11 1/2	345342	345442	345542	364.30	1.2531 - 1.3155	425.85	394.95	384.50	379.80	374.45	370.20
1.3750	1 3/8	4	8	3 1/4	12	345344	345444	345544	385.35	1.3156 - 1.3780	446.80	415.95	405.75	400.85	395.45	391.30
1.4375	1 7/16	4	8	3 1/4	12	345346	345446	345546	405.65	1.3781 - 1.4405	467.20	436.30	426.00	421.15	415.70	411.55
1.5000	1 1/2	4	8	3 1/2	12 1/2	345348	345448	345548	427.60	1.4406 - 1.5030	489.15	458.20	447.95	443.00	437.70	433.65

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CARBIDE TIPPED NAS 897 RIGHT SPIRAL CHUCKING REAMERS

TYPE 3442 - STRAIGHT SHANK - RIGHT SPIRAL FLUTE LONG CARBIDE - FOR NON-FERROUS

TYPE 3443 - STRAIGHT SHANK - RIGHT SPIRAL FLUTE LONG CARBIDE - FOR CAST IRON

TYPE 3444 - STRAIGHT SHANK - RIGHT SPIRAL FLUTE LONG CARBIDE - FOR STEEL

Flute long carbide tips brazed to one piece hardened alloy steel bodies. Right spiral polished flutes.

Right spiral flutes have a greater chip clearing ability for use with ductile materials, highly abrasive materials or blind holes. Finishes are much better as spiral flutes tend to bridge interruptions such as keyways, slots or intersecting holes.

NAS 897 chucking reamers manufactured to national aerospace standards 897 C with flute long carbide. Tool geometry and carbide grade appropriate for material being machined.

For step reamers, see page 125. For longer overall length reamers, see page 120.



Shanks are ground to the next smallest shank diameter listed in NAS 897 if tool diameter is within .005" of shank diameter.

For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MAX SHANK DIAM.	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3442 EDP NO.	CAST IRON TYPE 3443 EDP NO.	STEEL TYPE 3444 EDP NO.	ALL TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL			FLT	OAL						1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.3125	5/16	.2792	4	1 1/2	6	344210	344310	344410	\$110.00	.2841 - .3150	\$164.05	\$137.05	\$127.90	\$123.60	\$119.00	\$115.30
.3438	11/32	.2792	4	1 1/2	6	344211	344311	344411	121.20	.3151 - .3470	175.30	148.20	139.10	134.85	130.05	126.50
.3750	3/8	.3105	4	1 3/4	7	344212	344312	344412	122.15	.3471 - .3780	176.55	149.30	140.15	135.85	131.25	127.60
.4062	13/32	.3105	4	1 3/4	7	344213	344313	344413	127.75	.3781 - .4090	181.80	154.75	145.60	141.20	136.75	133.05
.4375	7/16	.3730	6	1 3/4	7	344214	344314	344414	132.70	.4091 - .4410	186.75	159.65	150.65	146.35	141.75	137.80
.4688	19/32	.3730	6	1 3/4	7	344215	344315	344415	141.05	.4411 - .4720	195.25	168.05	159.00	154.75	150.00	146.45
.5000	1/2	.4355	6	2	8	344216	344316	344416	152.20	.4721 - .5030	209.85	181.05	171.15	166.70	161.70	157.80
.5312	17/32	.4355	6	2	8	344217	344317	344417	156.55	.5031 - .5340	214.40	185.30	175.55	171.00	166.25	162.25
.5625	9/16	.4355	6	2	8	344218	344318	344418	156.55	.5341 - .5660	214.40	185.30	175.55	171.00	166.25	162.25
.5938	19/32	.4355	6	2	8	344219	344319	344419	161.20	.5661 - .5970	218.95	189.90	180.30	175.55	170.70	166.75
.6250	5/8	.5615	6	2 1/4	9	344220	344320	344420	161.20	.5971 - .6280	218.95	189.90	180.30	175.55	170.70	166.75
.6562	21/32	.5615	6	2 1/4	9	344221	344321	344421	166.30	.6281 - .6590	224.00	194.95	185.30	180.75	175.75	171.90
.6875	11/16	.5615	6	2 1/4	9	344222	344322	344422	176.55	.6591 - .6910	234.30	205.40	195.60	191.05	186.20	182.20
.7188	23/32	.5615	6	2 1/4	9	344223	344323	344423	179.15	.6911 - .7220	237.00	208.00	198.45	193.70	188.85	184.85
.7500	3/4	.6245	6	2 1/2	9 1/2	344224	344324	344424	181.90	.7221 - .7530	239.60	210.75	201.00	196.55	191.50	187.65
.7812	25/32	.6245	6	2 1/2	9 1/2	344225	344325	344425	186.75	.7531 - .7840	244.55	215.60	205.80	201.15	196.35	192.40
.8125	13/16	.6245	6	2 1/2	9 1/2	344226	344326	344426	186.75	.7841 - .8160	244.55	215.60	205.80	201.15	196.35	192.40
.8438	27/32	.6245	6	2 1/2	9 1/2	344227	344327	344427	196.85	.8161 - .8470	254.60	225.60	215.90	211.40	206.45	202.45
.8750	7/8	.7495	6	2 5/8	10	344228	344328	344428	204.25	.8471 - .8780	264.15	234.20	224.15	219.30	214.35	210.15
.9062	29/32	.7495	6	2 5/8	10	344229	344329	344429	238.00	.8781 - .9090	298.00	268.00	257.80	252.95	248.05	243.90
.9375	15/16	.7495	8	2 5/8	10	344230	344330	344430	238.00	.9091 - .9410	298.00	268.00	257.80	252.95	248.05	243.90
.9688	31/32	.7495	8	2 5/8	10	344231	344331	344431	249.50	.9411 - .9720	309.60	279.50	269.45	264.75	259.45	255.45
1.0000	1	.8745	8	2 3/4	10 1/2	344232	344332	344432	249.50	.9721 - 1.0030	309.60	279.50	269.45	264.75	259.45	255.45
1.0625	1 1/16	.8745	8	2 3/4	10 1/2	344234	344334	344434	293.35	1.0031 - 1.0660	353.45	323.20	313.15	308.45	303.25	299.15
1.1250	1 1/8	.8745	8	2 7/8	11	344236	344336	344436	302.40	1.0661 - 1.1280	362.35	332.25	322.20	317.50	312.45	308.35
1.1875	1 3/16	.9995	8	2 7/8	11	344238	344338	344438	317.80	1.1281 - 1.1905	377.85	347.75	337.85	332.95	327.80	323.85
1.2500	1 1/4	.9995	8	3	11 1/2	344240	344340	344440	336.35	1.1906 - 1.2530	396.35	366.35	356.30	351.55	346.25	342.30
1.3125	1 5/16	.9995	8	3	11 1/2	344242	344342	344442	372.20	1.2531 - 1.3155	432.20	402.20	392.05	387.35	382.15	378.00
1.3750	1 3/8	.9995	8	3 1/4	12	344244	344344	344444	407.80	1.3156 - 1.3780	467.65	437.65	427.75	422.75	417.70	413.70
1.4375	1 7/16	.9995	8	3 1/4	12	344246	344346	344446	432.15	1.3781 - 1.4405	491.85	461.85	451.85	447.15	442.05	437.95
1.5000	1 1/2	1.2495	8	3 1/2	12 1/2	344248	344348	344448	456.40	1.4406 - 1.5030	516.35	486.25	476.15	471.60	466.25	462.35

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CARBIDE TIPPED NAS 897 LEFT SPIRAL CHUCKING REAMERS

TYPE 3482 - STRAIGHT SHANK - LEFT SPIRAL FLUTE LONG CARBIDE - FOR NON-FERROUS

TYPE 3483 - STRAIGHT SHANK - LEFT SPIRAL FLUTE LONG CARBIDE - FOR CAST IRON

TYPE 3484 - STRAIGHT SHANK - LEFT SPIRAL FLUTE LONG CARBIDE - FOR STEEL

Flute long carbide tips brazed to one piece hardened alloy steel bodies. Left spiral polished flutes.

Left spiral flutes should only be used on through holes and very hard materials. Finishes are much better as spiral flutes tend to bridge interruptions such as keyways, slots or intersecting holes.

NAS 897 chucking reamers manufactured to national aerospace standards 897 C with flute long carbide. Tool geometry and carbide grade appropriate for material being machined.

For step reamers, see page 126. For longer overall length reamers, see page 122.



Shanks are ground to the next smallest shank diameter listed in NAS 897 if tool diameter is within .005" of shank diameter.

For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MAX SHANK DIAM.	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3482 EDP NO.	CAST IRON TYPE 3483 EDP NO.	STEEL TYPE 3484 EDP NO.	ALL TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRAC.			FLT	OAL						1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.3125	⁵ / ₁₆	.2792	4	1 1/2	6	348210	348310	348410	\$117.35	.2841 - .3150	\$175.15	\$146.05	\$136.55	\$131.75	\$126.95	\$123.00
.3438	¹¹ / ₃₂	.2792	4	1 1/2	6	348211	348311	348411	129.20	.3151 - .3470	186.95	158.00	148.40	143.80	138.80	134.95
.3750	³ / ₈	.3105	4	1 3/4	7	348212	348312	348412	130.50	.3471 - .3780	188.15	159.35	149.60	144.95	140.00	136.00
.4062	¹³ / ₃₂	.3105	4	1 3/4	7	348213	348313	348413	136.10	.3781 - .4090	194.00	165.20	155.30	150.75	145.70	141.90
.4375	⁷ / ₁₆	.3730	6	1 3/4	7	348214	348314	348414	141.65	.4091 - .4410	199.20	170.40	160.65	156.10	151.05	147.25
.4688	¹⁵ / ₃₂	.3730	6	1 3/4	7	348215	348315	348415	150.60	.4411 - .4720	208.35	179.30	169.55	165.20	160.05	156.20
.5000	¹ / ₂	.4355	6	2	8	348216	348316	348416	156.20	.4721 - .5030	215.60	185.80	175.85	171.10	165.85	162.00
.5312	¹⁷ / ₃₂	.4355	6	2	8	348217	348317	348417	160.75	.5031 - .5340	220.05	190.20	180.40	175.55	170.65	166.55
.5625	⁹ / ₁₆	.4355	6	2	8	348218	348318	348418	160.75	.5341 - .5660	220.05	190.20	180.40	175.55	170.65	166.55
.5938	¹⁹ / ₃₂	.4355	6	2	8	348219	348319	348419	165.50	.5661 - .5970	224.75	194.95	185.05	180.40	175.30	171.15
.6250	⁵ / ₈	.5615	6	2 1/4	9	348220	348320	348420	165.50	.5971 - .6280	224.75	194.95	185.05	180.40	175.30	171.15
.6562	²¹ / ₃₂	.5615	6	2 1/4	9	348221	348321	348421	170.70	.6281 - .6590	230.05	200.35	190.20	185.65	180.55	176.55
.6875	¹¹ / ₁₆	.5615	6	2 1/4	9	348222	348322	348422	181.20	.6591 - .6910	240.50	210.85	200.80	196.25	191.05	186.95
.7188	²³ / ₃₂	.5615	6	2 1/4	9	348223	348323	348423	184.10	.6911 - .7220	243.30	213.50	203.65	198.90	193.75	189.85
.7500	³ / ₄	.6245	6	2 1/2	9 1/2	348224	348324	348424	186.75	.7221 - .7530	246.10	216.45	206.45	201.65	196.70	192.65
.7812	²⁵ / ₃₂	.6245	6	2 1/2	9 1/2	348225	348325	348425	191.70	.7531 - .7840	251.05	221.35	211.40	206.75	201.55	197.55
.8125	¹³ / ₁₆	.6245	6	2 1/2	9 1/2	348226	348326	348426	191.70	.7841 - .8160	251.05	221.35	211.40	206.75	201.55	197.55
.8438	²⁷ / ₃₂	.6245	6	2 1/2	9 1/2	348227	348327	348427	202.15	.8161 - .8470	261.35	231.65	221.60	216.90	211.90	207.90
.8750	⁷ / ₈	.7495	6	2 5/8	10	348228	348328	348428	209.80	.8471 - .8780	271.25	240.40	230.15	225.20	219.85	215.75
.9062	²⁹ / ₃₂	.7495	6	2 5/8	10	348229	348329	348429	244.35	.8781 - .9090	305.90	275.05	264.75	259.90	254.55	250.40
.9375	¹⁵ / ₁₆	.7495	8	2 5/8	10	348230	348330	348430	244.35	.9091 - .9410	305.90	275.05	264.75	259.90	254.55	250.40
.9688	³¹ / ₃₂	.7495	8	2 5/8	10	348231	348331	348431	256.20	.9411 - .9720	317.80	287.00	276.75	271.80	266.50	262.40
1.0000	1	.8745	8	2 3/4	10 1/2	348232	348332	348432	256.20	.9721 - 1.0030	317.80	287.00	276.75	271.80	266.50	262.40
1.0625	1 1/16	.8745	8	2 3/4	10 1/2	348234	348334	348434	301.25	1.0031 - 1.0660	362.75	331.95	321.70	316.55	311.40	307.30
1.1250	1 1/8	.8745	8	2 7/8	11	348236	348336	348436	310.55	1.0661 - 1.1280	372.10	341.35	330.85	326.00	320.70	316.45
1.1875	1 3/16	.9995	8	2 7/8	11	348238	348338	348438	326.45	1.1281 - 1.1905	387.90	357.15	346.80	341.80	336.50	332.35
1.2500	1 1/4	.9995	8	3	11 1/2	348240	348340	348440	345.55	1.1906 - 1.2530	406.95	376.20	365.85	360.85	355.60	351.55
1.3125	1 5/16	.9995	8	3	11 1/2	348242	348342	348442	382.15	1.2531 - 1.3155	443.70	412.80	402.55	397.65	392.35	388.30
1.3750	1 3/8	.9995	8	3 1/4	12	348244	348344	348444	418.75	1.3156 - 1.3780	480.20	449.50	439.10	434.10	428.95	424.65
1.4375	1 7/16	.9995	8	3 1/4	12	348246	348346	348446	443.60	1.3781 - 1.4405	505.15	474.15	463.95	459.10	453.85	449.65
1.5000	1 1/2	1.2495	8	3 1/2	12 1/2	348248	348348	348448	468.55	1.4406 - 1.5030	530.10	499.35	489.15	484.00	478.75	474.85

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CARBIDE TIPPED NAS 897 RIGHT SPIRAL CHUCKING REAMERS

TYPE 3432 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - FOR NON-FERROUS

TYPE 3436 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - FOR CAST IRON

TYPE 3438 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - FOR STEEL

Carbide tips brazed to one piece hardened alloy steel bodies. Right spiral polished flutes.

Right spiral flutes have a greater chip clearing ability for use in blind holes. Finishes are much better as spiral flutes tend to bridge interruptions such as keyways, slots or intersecting holes.

NAS 897 chucking reamers manufactured to national aerospace standards 897 C with partial flute length carbide. Tool geometry and carbide grade appropriate for material being machined.



Shanks are ground to the next smallest shank diameter listed in NAS 897 if tool diameter is within .005" of shank diameter.

For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MAX SHANK DIAM.	NO. OF FLTS.	LENGTH			NON-FERR. TYPE 3432 EDP NO.	CAST IRON TYPE 3436 EDP NO.	STEEL TYPE 3438 EDP NO.	ALL TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTION			FLT	CARB	OAL						1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.1875	3/16	.1805	4	1 1/8	1/2	4 1/2	343206	343606	343806	\$91.50	.1770 - .2040	\$145.60	\$118.55	\$109.30	\$105.15	\$100.40	\$96.85
.2188	7/32	.2075	4	1 1/4	1/2	5	343207	343607	343807	91.50	.2041 - .2210	145.60	118.55	109.30	105.15	100.40	96.85
.2344	15/64	.2265	4	1 1/2	1/2	6	34322344	34362344	34382344	91.50	.2211 - .2380	145.60	118.55	109.30	105.15	100.40	96.85
.2500	1/4	.2405	4	1 1/2	1/2	6	343208	343608	343808	91.50	.2381 - .2530	145.60	118.55	109.30	105.15	100.40	96.85
.2812	9/32	.2485	4	1 1/2	1/2	6	343209	343609	343809	91.65	.2531 - .2840	145.75	118.75	109.60	105.40	100.70	97.00
.3125	5/16	.2792	4	1 1/2	1/2	6	343210	343610	343810	91.65	.2841 - .3150	145.75	118.75	109.60	105.40	100.70	97.00
.3438	11/32	.2792	4	1 1/2	5/8	6	343211	343611	343811	101.00	.3151 - .3470	155.15	128.05	119.00	114.75	110.00	106.20
.3750	3/8	.3105	4	1 3/4	5/8	7	343212	343612	343812	101.90	.3471 - .3780	156.05	128.90	119.75	115.50	110.85	107.20
.4062	13/32	.3105	4	1 3/4	5/8	7	343213	343613	343813	106.45	.3781 - .4090	160.55	133.35	124.35	120.00	115.35	111.75
.4375	7/16	.3730	6	1 3/4	5/8	7	343214	343614	343814	110.60	.4091 - .4410	164.65	137.50	128.45	124.15	119.50	115.80
.4688	15/32	.3730	6	1 3/4	5/8	7	343215	343615	343815	117.55	.4411 - .4720	171.85	144.60	135.55	131.25	126.55	123.00
.5000	1/2	.4355	6	2	5/8	8	343216	343616	343816	126.65	.4721 - .5030	184.45	155.35	145.70	141.05	136.10	132.20
.5312	17/32	.4355	6	2	5/8	8	343217	343617	343817	130.50	.5031 - .5340	188.15	159.35	149.60	144.95	140.00	136.00
.5625	9/16	.4355	6	2	5/8	8	343218	343618	343818	130.50	.5341 - .5660	188.15	159.35	149.60	144.95	140.00	136.00
.5938	19/32	.4355	6	2	5/8	8	343219	343619	343819	134.50	.5661 - .5970	192.25	163.20	153.45	148.95	143.95	140.10
.6250	5/8	.5615	6	2 1/4	5/8	9	343220	343620	343820	134.50	.5971 - .6280	192.25	163.20	153.45	148.95	143.95	140.10
.6562	21/32	.5615	6	2 1/4	5/8	9	343221	343621	343821	138.55	.6281 - .6590	196.25	167.30	157.65	153.00	147.95	144.00
.6875	11/16	.5615	6	2 1/4	5/8	9	343222	343622	343822	147.25	.6591 - .6910	204.95	175.90	166.40	161.70	156.70	152.85
.7188	23/32	.5615	6	2 1/4	5/8	9	343223	343623	343823	149.55	.6911 - .7220	207.15	178.35	168.65	164.00	159.00	155.15
.7500	3/4	.6245	6	2 1/2	3/4	9 1/2	343224	343624	343824	151.60	.7221 - .7530	209.35	180.40	170.70	166.25	161.20	157.25
.7812	25/32	.6245	6	2 1/2	3/4	9 1/2	343225	343625	343825	155.75	.7531 - .7840	213.40	184.55	174.85	170.25	165.35	161.35
.8125	13/16	.6245	6	2 1/2	3/4	9 1/2	343226	343626	343826	155.75	.7841 - .8160	213.40	184.55	174.85	170.25	165.35	161.35
.8438	27/32	.6245	6	2 1/2	3/4	9 1/2	343227	343627	343827	164.00	.8161 - .8470	221.60	192.85	183.10	178.55	173.50	169.55
.8750	7/8	.7495	6	2 5/8	3/4	10	343228	343628	343828	170.20	.8471 - .8780	230.15	200.20	190.05	185.20	180.10	175.90
.9062	29/32	.7495	6	2 5/8	3/4	10	343229	343629	343829	198.30	.8781 - .9090	258.15	228.10	218.05	213.35	208.20	204.20
.9375	15/16	.7495	8	2 5/8	3/4	10	343230	343630	343830	198.30	.9091 - .9410	258.15	228.10	218.05	213.35	208.20	204.20
.9688	31/32	.7495	8	2 5/8	3/4	10	343231	343631	343831	208.00	.9411 - .9720	268.00	237.90	227.70	223.00	217.80	213.65
1.0000	1	.8745	8	2 3/4	3/4	10 1/2	343232	343632	343832	208.00	.9721 - 1.0030	268.00	237.90	227.70	223.00	217.80	213.65
1.0625	1 1/16	.8745	8	2 3/4	3/4	10 1/2	343234	343634	343834	223.10	1.0031 - 1.0660	283.05	252.95	243.00	238.20	233.15	229.00
1.1250	1 1/8	.8745	8	2 7/8	7/8	11	343236	343636	343836	230.05	1.0661 - 1.1280	290.10	259.90	249.95	245.00	239.95	235.80
1.1875	1 3/16	.9995	8	2 7/8	7/8	11	343238	343638	343838	241.60	1.1281 - 1.1905	301.55	271.55	261.50	256.80	251.50	247.45
1.2500	1 1/4	.9995	8	3	7/8	11 1/2	343240	343640	343840	255.90	1.1906 - 1.2530	315.95	285.85	275.85	270.80	265.80	261.75
1.3125	1 5/16	.9995	8	3	7/8	11 1/2	343242	343642	343842	283.05	1.2531 - 1.3155	343.00	312.90	303.00	298.15	293.05	289.00
1.3750	1 3/8	.9995	8	3 1/4	7/8	12	343244	343644	343844	309.95	1.3156 - 1.3780	370.00	339.95	329.90	325.10	319.95	316.00
1.4375	1 7/16	.9995	8	3 1/4	7/8	12	343246	343646	343846	328.55	1.3781 - 1.4405	388.50	358.40	348.45	343.70	338.40	334.40
1.5000	1 1/2	1.2495	8	3 1/2	7/8	12 1/2	343248	343648	343848	347.10	1.4406 - 1.5030	406.95	376.95	366.80	362.10	356.90	352.85

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CARBIDE TIPPED NAS 897 LEFT SPIRAL CHUCKING REAMERS

TYPE 3433 - STRAIGHT SHANK - LEFT SPIRAL FLUTES - FOR NON-FERROUS

TYPE 3437 - STRAIGHT SHANK - LEFT SPIRAL FLUTES - FOR CAST IRON

TYPE 3439 - STRAIGHT SHANK - LEFT SPIRAL FLUTES - FOR STEEL

Carbide tips brazed to one piece hardened alloy steel bodies. Left spiral polished flutes.

Left spiral flutes should only be used on through holes and very hard materials.

Finishes are much better as spiral flutes tend to bridge interruptions such as keyways, slots or intersecting holes.

NAS 897 chucking reamers manufactured to national aerospace standards 897 C with partial flute length carbide. Tool geometry and carbide grade appropriate for material being machined.



Shanks are ground to the next smallest shank diameter listed in NAS 897 if tool diameter is within .005" of shank diameter.

For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MAX SHANK DIAM.	NO. OF FLTS.	LENGTH			NON-FERR. TYPE 3433 EDP NO.	CAST IRON TYPE 3437 EDP NO.	STEEL TYPE 3439 EDP NO.	ALL TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTION			FLT.	CARB.	OAL						1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.1875	3/16	.1805	4	1 1/8	1/2	4 1/2	343306	343706	343906	\$97.50	.1770 - .2040	\$155.30	\$126.40	\$116.75	\$112.10	\$107.20	\$103.20
.2188	7/32	.2075	4	1 1/4	1/2	5	343307	343707	343907	97.50	.2041 - .2210	155.30	126.40	116.75	112.10	107.20	103.20
.2344	15/64	.2265	4	1 1/2	1/2	6	34332344	34372344	34392344	97.50	.2211 - .2380	155.30	126.40	116.75	112.10	107.20	103.20
.2500	1/4	.2405	4	1 1/2	1/2	6	343308	343708	343908	97.50	.2381 - .2530	155.30	126.40	116.75	112.10	107.20	103.20
.2812	9/32	.2485	4	1 1/2	1/2	6	343309	343709	343909	97.85	.2531 - .2840	155.65	126.65	117.05	112.25	107.35	103.55
.3125	5/16	.2792	4	1 1/2	1/2	6	343310	343710	343910	97.85	.2841 - .3150	155.65	126.65	117.05	112.25	107.35	103.55
.3438	11/32	.2792	4	1 1/2	5/8	6	343311	343711	343911	107.65	.3151 - .3470	165.50	136.70	126.95	122.15	117.35	113.50
.3750	3/8	.3105	4	1 3/4	5/8	7	343312	343712	343912	108.70	.3471 - .3780	166.45	137.50	127.85	123.15	118.25	114.25
.4062	13/32	.3105	4	1 3/4	5/8	7	343313	343713	343913	113.55	.3781 - .4090	171.15	142.35	132.70	128.05	123.10	119.20
.4375	7/16	.3730	6	1 3/4	5/8	7	343314	343714	343914	117.95	.4091 - .4410	175.55	146.65	137.05	132.55	127.40	123.60
.4688	15/32	.3730	6	1 3/4	5/8	7	343315	343715	343915	125.35	.4411 - .4720	183.20	154.40	144.60	140.00	135.00	131.10
.5000	1/2	.4355	6	2	5/8	8	343316	343716	343916	129.95	.4721 - .5030	189.30	159.60	149.70	144.95	139.95	135.85
.5312	17/32	.4355	6	2	5/8	8	343317	343717	343917	133.95	.5031 - .5340	193.25	163.45	153.45	148.85	143.80	139.65
.5625	9/16	.4355	6	2	5/8	8	343318	343718	343918	133.95	.5341 - .5660	193.25	163.45	153.45	148.85	143.80	139.65
.5938	19/32	.4355	6	2	5/8	8	343319	343719	343919	138.05	.5661 - .5970	197.30	167.55	157.70	153.00	147.85	143.85
.6250	5/8	.5615	6	2 1/4	5/8	9	343320	343720	343920	138.05	.5971 - .6280	197.30	167.55	157.70	153.00	147.85	143.85
.6562	21/32	.5615	6	2 1/4	5/8	9	343321	343721	343921	142.15	.6281 - .6590	201.45	171.75	161.80	156.95	151.90	147.95
.6875	11/16	.5615	6	2 1/4	5/8	9	343322	343722	343922	151.10	.6591 - .6910	210.40	180.75	170.80	165.85	161.05	156.85
.7188	23/32	.5615	6	2 1/4	5/8	9	343323	343723	343923	153.40	.6911 - .7220	212.75	183.05	173.10	168.45	163.20	159.35
.7500	3/4	.6245	6	2 1/2	3/4	9 1/2	343324	343724	343924	155.65	.7221 - .7530	214.95	185.20	175.30	170.65	165.50	161.40
.7812	25/32	.6245	6	2 1/2	3/4	9 1/2	343325	343725	343925	159.80	.7531 - .7840	219.25	189.45	179.55	174.80	169.70	165.65
.8125	13/16	.6245	6	2 1/2	3/4	9 1/2	343326	343726	343926	159.80	.7841 - .8160	219.25	189.45	179.55	174.80	169.70	165.65
.8438	27/32	.6245	6	2 1/2	3/4	9 1/2	343327	343727	343927	168.45	.8161 - .8470	227.70	198.00	187.95	183.25	178.10	174.20
.8750	7/8	.7495	6	2 5/8	3/4	10	343328	343728	343928	174.80	.8471 - .8780	236.40	205.50	194.95	190.20	184.85	180.70
.9062	29/32	.7495	6	2 5/8	3/4	10	343329	343729	343929	203.60	.8781 - .9090	265.05	234.30	224.00	219.00	213.65	209.65
.9375	15/16	.7495	8	2 5/8	3/4	10	343330	343730	343930	203.60	.9091 - .9410	265.05	234.30	224.00	219.00	213.65	209.65
.9688	31/32	.7495	8	2 5/8	3/4	10	343331	343731	343931	213.40	.9411 - .9720	275.05	244.25	233.90	229.00	223.70	219.55
1.0000	1	.8745	8	2 3/4	3/4	10 1/2	343332	343732	343932	213.40	.9721 - 1.0030	275.05	244.25	233.90	229.00	223.70	219.55
1.0625	1 1/16	.8745	8	2 3/4	3/4	10 1/2	343334	343734	343934	229.05	1.0031 - 1.0660	290.55	259.90	249.40	244.55	239.25	235.10
1.1250	1 1/8	.8745	8	2 5/8	7/8	11	343336	343736	343936	236.15	1.0661 - 1.1280	297.80	266.85	256.50	251.60	246.40	242.20
1.1875	1 3/16	.9995	8	2 5/8	7/8	11	343338	343738	343938	248.20	1.1281 - 1.1905	309.65	278.90	268.45	263.55	258.35	254.15
1.2500	1 1/4	.9995	8	3	7/8	11 1/2	343340	343740	343940	262.65	1.1906 - 1.2530	324.15	293.50	283.05	278.20	272.85	268.60
1.3125	1 5/16	.9995	8	3	7/8	11 1/2	343342	343742	343942	290.55	1.2531 - 1.3155	352.20	321.55	311.00	306.20	300.75	296.80
1.3750	1 3/8	.9995	8	3 1/4	7/8	12	343344	343744	343944	318.35	1.3156 - 1.3780	379.95	349.05	338.70	333.85	328.55	324.30
1.4375	1 7/16	.9995	8	3 1/4	7/8	12	343346	343746	343946	337.40	1.3781 - 1.4405	398.80	368.00	357.80	352.75	347.55	343.40
1.5000	1 1/2	1.2495	8	3 1/2	7/8	12 1/2	343348	343748	343948	356.45	1.4406 - 1.5030	418.00	387.00	376.70	371.90	366.60	362.35

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*Quantities of 15 or more: price of fractional size in same size range.

Made in U.S.A.

CARBIDE TIPPED NAS 897 EXPANSION CHUCKING REAMERS

TYPE 3464 - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR NON-FERROUS

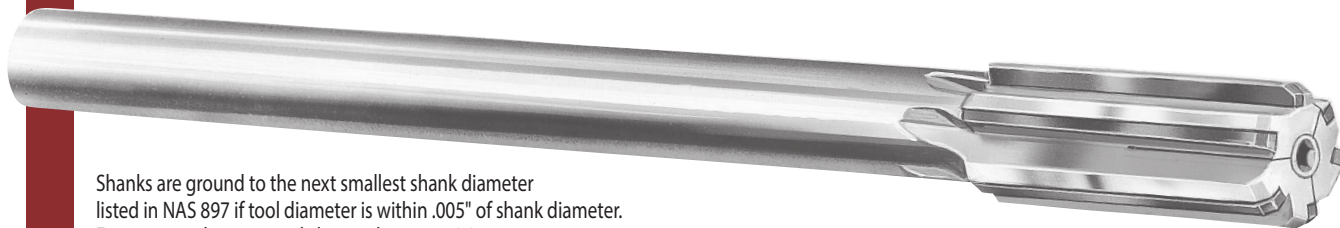
TYPE 3466 - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR CAST IRON

TYPE 3468 - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR STEEL

Flute long carbide tips brazed to one piece alloy steel bodies. Straight polished flutes. Tool geometry and carbide grade appropriate for material being machined.

NAS 897 expansion reamers manufactured to national aerospace standards 897 C. Designed and manufactured for maximum tool life. Expansion reamers are recommended for reaming abrasive materials and as the diameter wears down, the reamer can be expanded many times by tightening the end adjusting screw and regrinding to its original size. Expansion reamers should not be considered adjustable for use in producing holes of several sizes.

TOOL DIAMETER	MINIMUM EXPANSION
5/16" - 15/32"	.006"
1/2" - 31/32"	.010"
1" - 1 1/2"	.013"
1 9/16" - 2 1/2"	.015"



Shanks are ground to the next smallest shank diameter listed in NAS 897 if tool diameter is within .005" of shank diameter. For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MAX SHANK DIAM.	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3464 EDP NO.	CAST IRON TYPE 3466 EDP NO.	STEEL TYPE 3468 EDP NO.	ALL TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTION			FLT.	OAL						1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.3125	5/16	.2792	4	1	6	346410	346610	346810	\$133.30	.2841 - .3150	\$191.10	\$162.25	\$152.65	\$147.85	\$142.90	\$139.05
.3438	11/32	.2792	4	1	6	346411	346611	346811	133.30	.3151 - .3470	191.10	162.25	152.65	147.85	142.90	139.05
.3750	3/8	.3105	4	1	7	346412	346612	346812	126.05	.3471 - .3780	180.00	153.00	143.85	139.50	134.95	131.25
.4062	13/32	.3105	4	1	7	346413	346613	346813	132.70	.3781 - .4090	186.75	159.65	150.65	146.35	141.75	137.80
.4375	7/16	.3730	6	1	7	346414	346614	346814	132.70	.4091 - .4410	186.75	159.65	150.65	146.35	141.75	137.80
.4688	15/32	.3730	6	1	7	346415	346615	346815	140.55	.4411 - .4720	194.65	167.55	158.55	154.30	149.60	145.75
.5000	1/2	.4355	6	1	8	346416	346616	346816	140.55	.4721 - .5030	194.65	167.55	158.55	154.30	149.60	145.75
.5312	17/32	.4355	6	1	8	346417	346617	346817	144.10	.5031 - .5340	198.55	171.10	162.10	157.80	153.15	149.60
.5625	9/16	.4355	6	1 1/8	8	346418	346618	346818	144.10	.5341 - .5660	198.55	171.10	162.10	157.80	153.15	149.60
.5938	19/32	.4355	6	1 1/8	8	346419	346619	346819	150.50	.5661 - .5970	204.50	177.45	168.45	164.00	159.45	155.75
.6250	5/8	.5615	6	1 1/4	9	346420	346620	346820	150.50	.5971 - .6280	204.50	177.45	168.45	164.00	159.45	155.75
.6562	21/32	.5615	6	1 1/4	9	346421	346621	346821	164.50	.6281 - .6590	218.65	191.40	182.35	177.95	173.45	169.85
.6875	11/16	.5615	6	1 1/4	9	346422	346622	346822	164.50	.6591 - .6910	218.65	191.40	182.35	177.95	173.45	169.85
.7188	23/32	.5615	6	1 1/4	9	346423	346623	346823	170.70	.6911 - .7220	224.85	197.60	188.55	184.40	179.65	175.85
.7500	3/4	.6245	6	1 3/8	9 1/2	346424	346624	346824	170.70	.7221 - .7530	224.85	197.60	188.55	184.40	179.65	175.85
.7812	25/32	.6245	6	1 3/8	9 1/2	346425	346625	346825	183.95	.7531 - .7840	238.15	211.00	201.95	197.55	192.95	189.25
.8125	13/16	.6245	6	1 3/8	9 1/2	346426	346626	346826	183.95	.7841 - .8160	238.15	211.00	201.95	197.55	192.95	189.25
.8438	27/32	.6245	6	1 3/8	9 1/2	346427	346627	346827	191.10	.8161 - .8470	245.40	218.10	209.05	204.70	200.20	196.55
.8750	7/8	.7495	6	1 1/2	10	346428	346628	346828	198.45	.8471 - .8780	254.60	226.40	216.90	212.50	207.60	203.80
.9062	29/32	.7495	6	1 1/2	10	346429	346629	346829	211.15	.8781 - .9090	267.25	239.10	229.75	225.35	220.45	216.65
.9375	15/16	.7495	8	1 1/2	10	346430	346630	346830	211.15	.9091 - .9410	267.25	239.10	229.75	225.35	220.45	216.65
.9688	31/32	.7495	8	1 1/2	10	346431	346631	346831	219.25	.9411 - .9720	275.40	247.35	238.00	233.45	228.60	224.75
1.0000	1	.8745	8	1 5/8	10 1/2	346432	346632	346832	219.25	.9721 - 1.0030	275.40	247.35	238.00	233.45	228.60	224.75
1.0312	1 1/32	.8745	8	1 5/8	10 1/2	346433	346633	346833	240.40	-	-	-	-	-	-	-
1.0625	1 1/16	.8745	8	1 5/8	10 1/2	346434	346634	346834	240.40	1.0031 - 1.0660	296.50	268.40	259.00	254.55	249.55	245.95
1.0938	1 1/32	.8745	8	1 3/4	11	346435	346635	346835	240.40	-	-	-	-	-	-	-
1.1250	1 1/8	.8745	8	1 3/4	11	346436	346636	346836	240.40	1.0661 - 1.1280	296.50	268.40	259.00	254.55	249.55	245.95
1.1875	1 3/16	.9995	8	1 3/4	11	346438	346638	346838	262.40	1.1281 - 1.1905	318.65	290.40	280.95	276.45	271.65	268.10
1.2500	1 1/4	.9995	8	1 7/8	11 1/2	346440	346640	346840	262.40	1.1906 - 1.2530	318.65	290.40	280.95	276.45	271.65	268.10
1.3125	1 5/16	.9995	8	1 7/8	11 1/2	346442	346642	346842	289.70	1.2531 - 1.3155	345.95	317.75	308.35	303.90	299.00	295.20
1.3750	1 3/8	.9995	8	2	12	346444	346644	346844	304.45	1.3156 - 1.3780	360.75	332.70	323.20	318.75	313.95	310.05
1.4375	1 7/16	.9995	8	2	12	346446	346646	346846	358.80	1.3781 - 1.4405	418.80	388.75	378.75	374.00	368.70	364.60
1.5000	1 1/2	1.2495	8	2 1/8	12 1/2	346448	346648	346848	368.95	1.4406 - 1.5030	429.05	398.80	388.80	384.10	378.90	374.80
1.5625	1 5/8	1.2495	8	2 1/8	12 1/2	346450	346650	346850	484.75	1.5031 - 1.5660	544.70	514.75	504.65	499.80	494.75	490.55
1.6250	1 5/8	1.2495	8	2 1/4	13	346452	346652	346852	484.75	1.5661 - 1.6280	544.70	514.75	504.65	499.80	494.75	490.55
1.6875	1 11/16	1.2495	8	2 1/4	13	346454	346654	346854	536.75	1.6281 - 1.6910	596.80	566.75	556.80	551.80	546.65	542.80
1.7500	1 3/4	1.2495	10	2 3/8	13 1/2	346456	346656	346856	536.75	1.6911 - 1.7530	596.80	566.75	556.80	551.80	546.65	542.80
1.8125	1 13/16	1.4995	10	2 3/8	13 1/2	346458	346658	346858	635.55	1.7531 - 1.8160	695.50	665.45	655.55	650.75	645.60	641.45
1.8750	1 7/8	1.4995	10	2 1/2	14	346460	346660	346860	635.55	1.8161 - 1.8780	695.50	665.45	655.55	650.75	645.60	641.45
1.9375	1 15/16	1.4995	10	2 1/2	14	346462	346662	346862	694.60	1.8781 - 1.9410	754.40	724.40	714.35	709.60	704.45	700.45
2.0000	2	1.4995	12	2 1/2	14	346464	346664	346864	694.60	1.9411 - 2.0030	754.40	724.40	714.35	709.60	704.45	700.45

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CARBIDE TIPPED NAS 897 EXPANSION CHUCKING REAMERS

TYPE 3461 - TAPER SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR NON-FERROUS

TYPE 3462 - TAPER SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR CAST IRON

TYPE 3463 - TAPER SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR STEEL

Flute long carbide tips brazed to one piece alloy steel bodies. Straight polished flutes.

Tool geometry and carbide grade appropriate for material being machined.

NAS 897 expansion reamers manufactured to national aerospace standards 897 C. Designed and manufactured for maximum tool life. Expansion reamers are recommended for reaming abrasive materials and as the diameter wears down, the reamer can be expanded many times by tightening the end adjusting screw and regrinding to its original size. Expansion reamers should not be considered adjustable for use in producing holes of several sizes.

TOOL DIAMETER	MINIMUM EXPANSION
5/16" - 15/32"	.006"
1/2" - 31/32"	.010"
1" - 1 1/2"	.013"
1 5/16" - 2 1/2"	.015"



For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MORSE TAPER	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3461 EDP NO.	CAST IRON TYPE 3462 EDP NO.	STEEL TYPE 3463 EDP NO.	ALL TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL			FLT.	OAL						1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.3750	3/8	1	4	1	7	346112	346212	346312	\$140.90	.3471 - .3780	\$194.95	\$167.90	\$158.85	\$154.55	\$149.85	\$146.20
.4062	13/32	1	4	1	7	346113	346213	346313	143.05	.3781 - .4090	197.10	170.00	161.05	156.65	151.90	148.25
.4375	7/16	1	6	1	7	346114	346214	346314	145.25	.4091 - .4410	199.20	172.15	163.05	158.75	154.15	150.50
.4688	15/32	1	6	1	7	346115	346215	346315	151.35	.4411 - .4720	205.55	178.55	169.20	164.95	160.40	156.70
.5000	1/2	1	6	1	8	346116	346216	346316	152.35	.4721 - .5030	206.45	179.30	170.25	165.80	161.25	157.65
.5312	17/32	1	6	1	8	346117	346217	346317	156.95	.5031 - .5340	211.15	184.10	175.10	170.70	165.85	162.30
.5625	9/16	1	6	1 1/8	8	346118	346218	346318	156.95	.5341 - .5660	211.15	184.10	175.10	170.70	165.85	162.30
.5938	19/32	1	6	1 1/8	8	346119	346219	346319	163.00	.5661 - .5970	216.95	189.90	181.00	176.60	171.90	168.35
.6250	5/8	2	6	1 1/4	9	346120	346220	346320	163.30	.5971 - .6280	217.60	190.35	181.30	177.00	172.35	168.75
.6562	21/32	2	6	1 1/4	9	346121	346221	346321	177.45	.6281 - .6590	231.65	204.40	195.35	191.05	186.45	182.80
.6875	11/16	2	6	1 1/4	9	346122	346222	346322	177.90	.6591 - .6910	232.15	205.10	195.80	191.50	186.80	183.25
.7188	23/32	2	6	1 1/4	9	346123	346223	346323	184.45	.6911 - .7220	238.65	211.40	202.30	198.00	193.30	189.75
.7500	3/4	2	6	1 3/8	9 1/2	346124	346224	346324	184.45	.7221 - .7530	238.65	211.40	202.30	198.00	193.30	189.75
.7812	25/32	2	6	1 3/8	9 1/2	346125	346225	346325	197.85	.7531 - .7840	252.15	224.90	215.85	211.55	206.85	203.30
.8125	13/16	2	6	1 3/8	9 1/2	346126	346226	346326	197.85	.7841 - .8160	252.15	224.90	215.85	211.55	206.85	203.30
.8438	27/32	2	6	1 3/8	9 1/2	346127	346227	346327	206.15	.8161 - .8470	260.35	233.25	224.00	219.70	215.00	211.40
.8750	7/8	2	6	1 1/2	10	346128	346228	346328	213.70	.8471 - .8780	270.20	241.90	232.45	228.00	223.15	219.30
.9062	29/32	2	6	1 1/2	10	346129	346229	346329	225.35	.8781 - .9090	281.40	253.25	243.90	239.45	234.60	230.75
.9375	15/16	3	8	1 1/2	10	346130	346230	346330	226.40	.9091 - .9410	282.60	254.55	245.00	240.55	235.65	232.00
.9688	31/32	3	8	1 1/2	10	346131	346231	346331	234.45	.9411 - .9720	290.55	262.50	252.95	248.50	243.75	239.95
1.0000	1	3	8	1 5/8	10 1/2	346132	346232	346332	234.45	.9721 - 1.0030	290.55	262.50	252.95	248.50	243.75	239.95
1.0312	1 1/32	3	8	1 5/8	10 1/2	346133	346233	346333	249.35	-	-	-	-	-	-	-
1.0625	1 1/16	3	8	1 5/8	10 1/2	346134	346234	346334	249.35	1.0031 - 1.0660	305.60	277.40	268.15	263.55	258.80	254.90
1.0938	1 3/32	3	8	1 3/4	11	346135	346235	346335	256.80	-	-	-	-	-	-	-
1.1250	1 1/8	3	8	1 3/4	11	346136	346236	346336	256.80	1.0661 - 1.1280	312.85	284.70	275.20	270.70	265.95	262.20
1.1875	1 3/16	3	8	1 3/4	11	346138	346238	346338	273.80	1.1281 - 1.1905	330.15	301.85	292.50	288.05	283.10	279.40
1.2500	1 1/4	4	8	1 7/8	11 1/2	346140	346240	346340	292.50	1.1906 - 1.2530	348.75	320.55	311.00	306.55	301.80	298.10
1.3125	1 5/16	4	8	1 7/8	11 1/2	346142	346242	346342	303.45	1.2531 - 1.3155	359.80	331.65	322.15	317.65	312.85	309.00
1.3750	1 3/8	4	8	2	12	346144	346244	346344	336.50	1.3156 - 1.3780	392.90	364.60	355.40	350.85	345.95	342.25
1.4375	1 7/16	4	8	2	12	346146	346246	346346	373.00	1.3781 - 1.4405	433.10	402.80	392.95	388.15	382.90	378.90
1.5000	1 1/2	4	8	2 1/8	12 1/2	346148	346248	346348	384.25	1.4406 - 1.5030	444.30	414.15	404.25	399.40	394.25	390.25
1.5625	1 9/16	4	8	2 1/8	12 1/2	346150	346250	346350	538.50	1.5031 - 1.5660	598.55	568.35	558.10	553.45	548.40	544.40
1.6250	1 5/8	4	8	2 1/4	13	346152	346252	346352	538.50	1.5661 - 1.6280	598.55	568.35	558.10	553.45	548.40	544.40
1.6875	1 11/16	4	8	2 1/4	13	346154	346254	346354	596.65	1.6281 - 1.6910	656.65	626.50	616.35	611.60	606.55	602.40
1.7500	1 3/4	4	10	2 3/8	13 1/2	346156	346256	346356	596.65	1.6911 - 1.7530	656.65	626.50	616.35	611.60	606.55	602.40
1.8125	1 13/16	4	10	2 3/8	13 1/2	346158	346258	346358	706.35	1.7531 - 1.8160	766.30	736.35	726.20	721.45	716.25	712.25
1.8750	1 7/8	4	10	2 1/2	14	346160	346260	346360	706.35	1.8161 - 1.8780	766.30	736.35	726.20	721.45	716.25	712.25
1.9375	1 15/16	4	10	2 1/2	14	346162	346262	346362	771.35	1.8781 - 1.9410	831.30	801.30	791.25	786.55	781.40	777.30
2.0000	2	4	12	2 1/2	14	346164	346264	346364	771.35	1.9411 - 2.0030	831.30	801.30	791.25	786.55	781.40	777.30

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*Quantities of 15 or more: price of fractional size in same size range.

Made in U.S.A.

CARBIDE TIPPED h6 SHANK REAMER - CENTER FED COOLANT

TYPE 3414h6 - STRAIGHT SHANK & FLUTES - BLIND HOLES - FOR NON-FERROUS

TYPE 3424h6 - STRAIGHT SHANK & FLUTES - BLIND HOLES - FOR CAST IRON

TYPE 3434h6 - STRAIGHT SHANK & FLUTES - BLIND HOLES - FOR STEEL

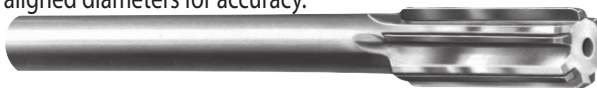
Flute long carbide tips brazed to one piece hardened alloy steel bodies. Straight polished flutes. Material specific geometry and carbide grade for the ultimate in performance and tool life.

Full length center coolant fed hole rapidly flushes chips along the flute and out of the hole preventing recutting of chips and providing superior finishes. Precision ground axially aligned diameters for accuracy.

Tool diameter tolerance: +.0002"/-.0000".

Shank diameter tolerance thru .3750": +.0000"/-.0003".

over .3750": +.0000"/-.0004".



DECIMAL SIZE RANGE	SHANK DIAMETER	NO. OF FLUTES	FLUTE LENGTH	OVERALL LENGTH	NON-FERR. TYPE 3414h6 EDP NO.	CAST IRON TYPE 3424h6 EDP NO.	STEEL TYPE 3434h6 EDP NO.	PRICE EACH - FINISHED TO DECIMAL SIZE					
								1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.3471 - .3780	.3125	4	1 3/4	5	341412h6	342412h6	343412h6	\$360.00	\$321.15	\$308.30	\$302.00	\$295.30	\$290.25
.3781 - .4090	.3125	4	1 3/4	5	341413h6	342413h6	343413h6	360.75	322.20	309.30	303.00	296.45	291.00
.4091 - .4410	.3750	6	1 3/4	5	341414h6	342414h6	343414h6	363.85	325.00	312.00	305.95	299.05	294.00
.4411 - .4720	.3750	6	1 3/4	5	341415h6	342415h6	343415h6	366.30	327.50	314.50	308.35	301.65	296.50
.4721 - .5030	.4375	6	2	6	341416h6	342416h6	343416h6	369.60	330.85	317.90	311.75	305.05	299.85
.5031 - .5340	.4375	6	2	6	341417h6	342417h6	343417h6	375.95	337.20	324.30	318.20	311.60	306.35
.5341 - .5660	.4375	6	2	6	341418h6	342418h6	343418h6	380.40	341.65	328.65	322.50	315.95	310.55
.5661 - .5970	.4375	6	2	6	341419h6	342419h6	343419h6	386.70	347.85	334.85	328.80	322.20	317.00
.5971 - .6280	.5625	6	2 1/4	6	341420h6	342420h6	343420h6	392.50	353.80	340.80	334.60	328.05	322.75
.6281 - .6590	.5625	6	2 1/4	6	341421h6	342421h6	343421h6	426.25	387.55	374.45	368.45	361.75	356.55
.6591 - .6910	.5625	6	2 1/4	6	341422h6	342422h6	343422h6	433.35	394.65	381.70	375.60	368.70	363.55
.6911 - .7220	.5625	6	2 1/4	6	341423h6	342423h6	343423h6	448.60	410.05	397.05	390.80	384.20	378.90
.7221 - .7530	.6250	6	2 1/2	6	341424h6	342424h6	343424h6	448.60	410.05	397.05	390.80	384.20	378.90
.7531 - .7840	.6250	6	2 1/2	6	341425h6	342425h6	343425h6	459.70	421.00	407.95	401.80	395.25	389.85
.7841 - .8160	.6250	6	2 1/2	6	341426h6	342426h6	343426h6	459.70	421.00	407.95	401.80	395.25	389.85
.8161 - .8470	.6250	6	2 1/2	6	341427h6	342427h6	343427h6	472.80	433.95	421.10	414.80	408.10	402.80
.8471 - .8780	.7500	6	2 3/8	6	341428h6	342428h6	343428h6	488.05	449.30	436.30	430.15	423.50	418.20
.8781 - .9090	.7500	6	2 3/8	6	341429h6	342429h6	343429h6	533.45	494.75	481.70	475.60	468.95	463.65
.9091 - .9410	.7500	8	2 3/8	6	341430h6	342430h6	343430h6	533.45	494.75	481.70	475.60	468.95	463.65
.9411 - .9720	.7500	8	2 3/8	6	341431h6	342431h6	343431h6	535.15	496.30	483.45	477.25	470.55	465.30
.9721 - 1.0030	.8750	8	2 3/4	6	341432h6	342432h6	343432h6	535.15	496.30	483.45	477.25	470.55	465.30

METRIC CARBIDE TIPPED h6 SHANK REAMER - CENTER FED COOLANT

TYPE 3414h6 - STRAIGHT SHANK & FLUTES - BLIND HOLES - FOR NON-FERROUS

TYPE 3424h6 - STRAIGHT SHANK & FLUTES - BLIND HOLES - FOR CAST IRON

TYPE 3434h6 - STRAIGHT SHANK & FLUTES - BLIND HOLES - FOR STEEL

Tool diameter tolerance: +.0051mm/-.0000mm.

Shank diameter tolerance thru 10mm: +.0000mm/-.0076mm.

over 10mm: +.0000mm/-.0102mm.

METRIC SIZE RANGE (mm)	SHANK DIAMETER (mm)	NO. OF FLUTES	FLUTE LENGTH (mm)	OVERALL LENGTH (mm)	NON-FERR. TYPE 3414h6 EDP NO.	CAST IRON TYPE 3424h6 EDP NO.	STEEL TYPE 3434h6 EDP NO.	PRICE EACH - FINISHED TO METRIC SIZE					
								1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
8.815 - 9.601	8	4	45	127	3414095h6	3424095h6	3434095h6	\$366.50	\$327.80	\$314.80	\$308.45	\$302.00	\$296.60
9.602 - 10.389	8	4	45	127	3414100h6	3424100h6	3434100h6	367.40	328.80	315.95	309.50	303.00	297.50
10.390 - 11.201	10	6	45	127	3414110h6	3424110h6	3434110h6	370.15	331.75	318.75	312.45	305.95	300.50
11.202 - 12.000	10	6	45	127	3414120h6	3424120h6	3434120h6	372.80	334.25	321.15	314.80	308.35	303.00
12.001 - 12.875	10	6	51	153	3414125h6	3424125h6	3434125h6	375.95	337.70	324.40	318.20	311.75	306.35
12.876 - 13.565	12	6	51	153	3414135h6	3424135h6	3434135h6	382.55	344.15	331.00	324.80	318.20	312.75
13.566 - 14.376	12	6	51	153	3414140h6	3424140h6	3434140h6	386.85	348.20	335.30	328.85	322.50	317.05
14.377 - 15.164	12	6	51	153	3414150h6	3424150h6	3434150h6	393.20	354.50	341.65	335.30	328.80	323.35
15.165 - 16.100	14	6	57	153	3414160h6	3424160h6	3434160h6	399.00	360.55	347.45	341.05	334.60	329.25
16.101 - 16.740	14	6	57	153	3414165h6	3424165h6	3434165h6	432.75	394.05	381.10	374.80	368.45	363.05
16.741 - 17.551	14	6	57	153	3414175h6	3424175h6	3434175h6	439.85	401.35	388.45	382.00	375.60	370.05
17.552 - 18.340	14	6	57	153	3414180h6	3424180h6	3434180h6	455.10	416.70	403.65	397.45	390.80	385.40
18.341 - 19.250	16	6	64	153	3414190h6	3424190h6	3434190h6	455.10	416.70	403.65	397.45	390.80	385.40
19.251 - 20.126	16	6	64	153	3414200h6	3424200h6	3434200h6	458.95	420.05	407.10	400.90	394.25	388.90
20.127 - 21.127	16	6	64	153	3414210h6	3424210h6	3434210h6	471.90	433.10	420.10	413.90	407.25	402.05
21.128 - 22.127	20	6	64	153	3414220h6	3424220h6	3434220h6	471.90	433.10	420.10	413.90	407.25	402.05
22.128 - 23.127	20	6	67	153	3414230h6	3424230h6	3434230h6	532.40	493.50	480.65	474.30	467.80	462.50
23.128 - 24.127	20	8	67	153	3414240h6	3424240h6	3434240h6	534.10	495.35	482.40	476.15	469.55	464.25
24.128 - 25.127	20	8	70	153	3414250h6	3424250h6	3434250h6	534.10	495.35	482.40	476.15	469.55	464.25

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CARBIDE TIPPED h6 SHANK REAMER - FLUTE FED COOLANT

TYPE 3416h6- STRAIGHT SHANK & FLUTES - THROUGH HOLES - FOR NON-FERROUS

TYPE 3426h6 - STRAIGHT SHANK & FLUTES - THROUGH HOLES - FOR CAST IRON

TYPE 3435h6 - STRAIGHT SHANK & FLUTES - THROUGH HOLES - FOR STEEL

Flute long carbide tips brazed to one piece hardened alloy steel bodies. Straight polished flutes.

Material specific geometry and carbide grade for the ultimate in performance and tool life.

Coolant fed hole in each flute rapidly flushes chips forward ahead of the reamer to help break chips and provide superior finishes. Precision ground axially aligned diameters for accuracy.



Tool diameter tolerance: +.0002"/-.0000"

Shank diameter tolerance thru .3750": +.0000"/-.0003"

over .3750": +.0000"/-.0004"

DECIMAL SIZE RANGE	SHANK DIAMETER	NO. OF FLUTES	FLUTE LENGTH	OVERALL LENGTH	NON-FERR. TYPE 3416h6 EDP NO.	CAST IRON TYPE 3426h6 EDP NO.	STEEL TYPE 3435h6 EDP NO.	PRICE EACH - FINISHED TO DECIMAL SIZE					
								1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.3471 - .3780	.3125	4	1 3/4	5	341612h6	342612h6	343512h6	\$362.45	\$323.80	\$310.80	\$304.65	\$298.10	\$292.65
.3781 - .4090	.3125	4	1 3/4	5	341613h6	342613h6	343513h6	369.60	330.85	317.90	311.75	305.05	299.85
.4091 - .4410	.3750	6	1 3/4	5	341614h6	342614h6	343514h6	376.55	337.95	325.00	318.80	312.25	306.95
.4411 - .4720	.3750	6	1 3/4	5	341615h6	342615h6	343515h6	376.55	337.95	325.00	318.80	312.25	306.95
.4721 - .5030	.4375	6	2	6	341616h6	342616h6	343516h6	376.55	337.95	325.00	318.80	312.25	306.95
.5031 - .5340	.4375	6	2	6	341617h6	342617h6	343517h6	393.90	355.25	342.30	336.20	329.45	324.25
.5341 - .5660	.4375	6	2	6	341618h6	342618h6	343518h6	398.35	359.80	346.65	340.50	333.85	328.65
.5661 - .5970	.4375	6	2	6	341619h6	342619h6	343519h6	401.45	362.60	349.65	343.40	336.70	331.75
.5971 - .6280	.5625	6	2 1/4	6	341620h6	342620h6	343520h6	401.45	362.60	349.65	343.40	336.70	331.75
.6281 - .6590	.5625	6	2 1/4	6	341621h6	342621h6	343521h6	436.60	397.90	384.65	378.70	371.95	366.75
.6591 - .6910	.5625	6	2 1/4	6	341622h6	342622h6	343522h6	436.60	397.90	384.65	378.70	371.95	366.75
.6911 - .7220	.5625	6	2 1/4	6	341623h6	342623h6	343523h6	461.25	422.40	409.45	403.40	396.50	391.45
.7221 - .7530	.6250	6	2 1/2	6	341624h6	342624h6	343524h6	461.25	422.40	409.45	403.40	396.50	391.45
.7531 - .7840	.6250	6	2 1/2	6	341625h6	342625h6	343525h6	462.80	423.90	411.10	404.85	398.20	392.95
.7841 - .8160	.6250	6	2 1/2	6	341626h6	342626h6	343526h6	462.80	423.90	411.10	404.85	398.20	392.95
.8161 - .8470	.6250	6	2 1/2	6	341627h6	342627h6	343527h6	474.25	435.60	422.60	416.50	409.75	404.45
.8471 - .8780	.7500	6	2 5/8	6	341628h6	342628h6	343528h6	489.65	450.80	437.95	431.70	425.10	419.90
.8781 - .9090	.7500	6	2 5/8	6	341629h6	342629h6	343529h6	540.45	501.70	488.70	482.50	475.85	470.55
.9091 - .9410	.7500	8	2 5/8	6	341630h6	342630h6	343530h6	551.05	512.20	499.35	493.15	486.40	481.25
.9411 - .9720	.7500	8	2 5/8	6	341631h6	342631h6	343531h6	551.05	512.20	499.35	493.15	486.40	481.25
.9721 - 1.0030	.8750	8	2 3/4	6	341632h6	342632h6	343532h6	551.05	512.20	499.35	493.15	486.40	481.25

CARBIDE TIPPED h6 SHANK REAMER - FLUTE FED COOLANT

METRIC

TYPE 3416h6- STRAIGHT SHANK & FLUTES - THROUGH HOLES - FOR NON-FERROUS

TYPE 3426h6 - STRAIGHT SHANK & FLUTES - THROUGH HOLES - FOR CAST IRON

TYPE 3435h6 - STRAIGHT SHANK & FLUTES - THROUGH HOLES - FOR STEEL

Tool diameter tolerance: +.0051mm/-.0000mm.

Shank diameter tolerance thru 10mm: +.0000mm/-.0076mm.

over 10mm: +.0000mm/-.0102mm.

METRIC SIZE RANGE (mm)	SHANK DIAMETER (mm)	NO. OF FLUTES	FLUTE LENGTH (mm)	OVERALL LENGTH (mm)	NON-FERR. TYPE 3416h6 EDP NO.	CAST IRON TYPE 3426h6 EDP NO.	STEEL TYPE 3435h6 EDP NO.	PRICE EACH - FINISHED TO METRIC SIZE					
								1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
8.815 - 9.601	8	4	45	127	3416095h6	3426095h6	3435095h6	\$368.95	\$330.35	\$317.30	\$311.00	\$304.65	\$299.05
9.602 - 10.389	8	4	45	127	3416100h6	3426100h6	3435100h6	375.95	337.70	324.40	318.20	311.75	306.35
10.390 - 11.201	10	6	45	127	3416110h6	3426110h6	3435110h6	383.15	344.60	331.75	325.25	318.80	313.45
11.202 - 12.000	10	6	45	127	3416120h6	3426120h6	3435120h6	383.15	344.60	331.75	325.25	318.80	313.45
12.001 - 12.875	10	6	51	153	3416125h6	3426125h6	3435125h6	383.15	344.60	331.75	325.25	318.80	313.45
12.876 - 13.565	12	6	51	153	3416135h6	3426135h6	3435135h6	400.30	361.80	348.80	342.60	336.20	330.60
13.566 - 14.376	12	6	51	153	3416140h6	3426140h6	3435140h6	404.85	366.30	353.45	347.10	340.50	335.20
14.377 - 15.164	12	6	51	153	3416150h6	3426150h6	3435150h6	407.95	369.30	356.30	349.95	343.40	338.15
15.165 - 16.100	14	6	57	153	3416160h6	3426160h6	3435160h6	407.95	369.30	356.30	349.95	343.40	338.15
16.101 - 16.740	14	6	57	153	3416165h6	3426165h6	3435165h6	443.25	404.40	391.45	385.20	378.70	373.25
16.741 - 17.551	14	6	57	153	3416175h6	3426175h6	3435175h6	443.25	404.40	391.45	385.20	378.70	373.25
17.552 - 18.340	14	6	57	153	3416180h6	3426180h6	3435180h6	467.65	429.05	415.95	409.75	403.40	397.95
18.341 - 19.250	16	6	64	153	3416190h6	3426190h6	3435190h6	467.65	429.05	415.95	409.75	403.40	397.95
19.251 - 20.126	16	6	64	153	3416200h6	3426200h6	3435200h6	462.00	423.30	410.30	404.15	397.50	392.15
20.127 - 21.127	16	6	64	153	3416210h6	3426210h6	3435210h6	473.50	434.60	421.70	415.55	408.85	403.65
21.128 - 22.127	20	6	64	153	3416220h6	3426220h6	3435220h6	473.50	434.60	421.70	415.55	408.85	403.65
22.128 - 23.127	20	6	67	153	3416230h6	3426230h6	3435230h6	539.50	500.70	487.70	481.55	474.90	469.55
23.128 - 24.127	20	8	67	153	3416240h6	3426240h6	3435240h6	550.05	511.45	498.45	492.25	485.50	480.30
24.128 - 25.127	20	8	70	153	3416250h6	3426250h6	3435250h6	550.05	511.45	498.45	492.25	485.50	480.30

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*Quantities of 15 or more: call for pricing.

Made in U.S.A.

CARBIDE TIPPED h6 SHANK REAMER - CENTER FED COOLANT

TYPE 3411h6 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - BLIND HOLES - FOR NON-FERROUS

TYPE 3413h6 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - BLIND HOLES - FOR CAST IRON

TYPE 3415h6 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - BLIND HOLES - FOR STEEL

Flute long carbide tips brazed to one piece hardened alloy steel bodies. Right spiral flutes. Material specific geometry and carbide grade for the ultimate in performance and tool life.

Full length center coolant fed hole rapidly flushes chips along the flute and out of the hole preventing recutting of chips and providing superior finishes. Precision ground axially aligned diameters for accuracy.

Tool diameter tolerance: +.0002"/-.0000".

Shank diameter tolerance thru .3750": +.0000"/-.0003".

over .3750": +.0000"/-.0004".

DECIMAL SIZE RANGE	SHANK DIAMETER	NO. OF FLUTES	FLUTE LENGTH	OVERALL LENGTH	NON-FERR. TYPE 3411h6 EDP NO.	CAST IRON TYPE 3413h6 EDP NO.	STEEL TYPE 3415h6 EDP NO.	PRICE EACH - FINISHED TO DECIMAL SIZE					
								1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.3471 .3780	.3125	4	1 ¾	5	341112h6	341312h6	341512h6	\$367.05	\$328.40	\$315.40	\$309.30	\$302.65	\$297.25
.3781 .4090	.3125	4	1 ¾	5	341113h6	341313h6	341513h6	367.95	329.10	316.25	310.05	303.30	298.15
.4091 .4410	.3750	6	1 ¾	5	341114h6	341314h6	341514h6	370.95	332.10	319.20	313.00	306.40	301.10
.4411 .4720	.3750	6	1 ¾	5	341115h6	341315h6	341515h6	373.70	334.85	321.90	315.80	309.15	303.85
.4721 .5030	.4375	6	2	6	341116h6	341316h6	341516h6	385.35	346.45	333.55	327.35	320.70	315.40
.5031 .5340	.4375	6	2	6	341117h6	341317h6	341517h6	396.50	357.80	344.75	338.60	331.95	326.65
.5341 .5660	.4375	6	2	6	341118h6	341318h6	341518h6	396.50	357.80	344.75	338.60	331.95	326.65
.5661 .5970	.4375	6	2	6	341119h6	341319h6	341519h6	409.20	370.30	357.45	351.15	344.50	339.30
.5971 .6280	.5625	6	2 ¼	6	341120h6	341320h6	341520h6	409.20	370.30	357.45	351.15	344.50	339.30
.6281 .6590	.5625	6	2 ¼	6	341121h6	341321h6	341521h6	452.25	413.55	400.55	394.40	387.70	382.40
.6591 .6910	.5625	6	2 ¼	6	341122h6	341322h6	341522h6	452.25	413.55	400.55	394.40	387.70	382.40
.6911 .7220	.5625	6	2 ¼	6	341123h6	341323h6	341523h6	468.50	429.65	416.70	410.50	403.95	398.55
.7221 .7530	.6250	6	2 ½	6	341124h6	341324h6	341524h6	444.30	405.50	392.50	386.40	379.75	374.45
.7531 .7840	.6250	6	2 ½	6	341125h6	341325h6	341525h6	498.80	460.05	447.10	440.95	434.25	429.05
.7841 .8160	.6250	6	2 ½	6	341126h6	341326h6	341526h6	504.20	465.40	452.40	446.25	439.55	434.30
.8161 .8470	.6250	6	2 ½	6	341127h6	341327h6	341527h6	512.10	473.40	460.35	454.20	447.55	442.35
.8471 .8780	.7500	6	2 ¾	6	341128h6	341328h6	341528h6	535.95	497.20	484.20	478.10	471.35	466.05
.8781 .9090	.7500	6	2 ¾	6	341129h6	341329h6	341529h6	563.20	524.45	511.50	505.30	498.65	493.30
.9091 .9410	.7500	8	2 ¾	6	341130h6	341330h6	341530h6	586.35	547.50	534.50	528.45	521.70	516.50
.9411 .9720	.7500	8	2 ¾	6	341131h6	341331h6	341531h6	587.85	549.10	536.10	529.95	523.25	518.10
.9721 1.0030	.8750	8	2 ¾	6	341132h6	341332h6	341532h6	588.75	549.85	536.90	530.80	524.05	518.85

METRIC CARBIDE TIPPED h6 SHANK REAMER - CENTER FED COOLANT

TYPE 3411h6 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - BLIND HOLES - FOR NON-FERROUS

TYPE 3413h6 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - BLIND HOLES - FOR CAST IRON

TYPE 3415h6 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - BLIND HOLES - FOR STEEL

Tool diameter tolerance: +.0051mm/-.0000mm.

Shank diameter tolerance thru 10mm: +.0000mm/-.0076mm.

over 10mm: +.0000mm/-.0102mm.

METRIC SIZE RANGE (mm)	SHANK DIAMETER (mm)	NO. OF FLUTES	FLUTE LENGTH (mm)	OVERALL LENGTH (mm)	NON-FERR. TYPE 3411h6 EDP NO.	CAST IRON TYPE 3413h6 EDP NO.	STEEL TYPE 3415h6 EDP NO.	PRICE EACH - FINISHED TO METRIC SIZE					
								1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
8.815 - 9.601	8	4	45	127	3411095h6	3413095h6	3415095h6	\$367.05	\$328.40	\$315.40	\$309.30	\$302.65	\$297.25
9.602 - 10.389	8	4	45	127	3411100h6	3413100h6	3415100h6	367.95	329.10	316.25	310.05	303.30	298.15
10.390 - 11.201	10	6	45	127	3411110h6	3413110h6	3415110h6	370.95	332.10	319.20	313.00	306.40	301.10
11.202 - 12.000	10	6	45	127	3411120h6	3413120h6	3415120h6	385.35	346.45	333.55	327.35	320.70	315.40
12.001 - 12.875	10	6	51	153	3411125h6	3413125h6	3415125h6	396.50	357.80	344.75	338.60	331.95	326.65
12.876 - 13.565	12	6	51	153	3411135h6	3413135h6	3415135h6	396.50	357.80	344.75	338.60	331.95	326.65
13.566 - 14.376	12	6	51	153	3411140h6	3413140h6	3415140h6	396.50	357.80	344.75	338.60	331.95	326.65
14.377 - 15.164	12	6	51	153	3411150h6	3413150h6	3415150h6	409.20	370.30	357.45	351.15	344.50	339.30
15.165 - 16.100	14	6	57	153	3411160h6	3413160h6	3415160h6	452.25	413.55	400.55	394.40	387.70	382.40
16.101 - 16.740	14	6	57	153	3411165h6	3413165h6	3415165h6	452.25	413.55	400.55	394.40	387.70	382.40
16.741 - 17.551	14	6	57	153	3411175h6	3413175h6	3415175h6	452.25	413.55	400.55	394.40	387.70	382.40
17.552 - 18.340	14	6	57	153	3411180h6	3413180h6	3415180h6	468.50	429.65	416.70	410.50	403.95	398.55
18.341 - 19.250	16	6	64	153	3411190h6	3413190h6	3415190h6	498.80	460.05	447.10	440.95	434.25	429.05
19.251 - 20.126	16	6	64	153	3411200h6	3413200h6	3415200h6	504.20	465.40	452.40	446.25	439.55	434.30
20.127 - 21.127	16	6	64	153	3411210h6	3413210h6	3415210h6	512.10	473.40	460.35	454.20	447.55	442.35
21.128 - 22.127	20	6	64	153	3411220h6	3413220h6	3415220h6	535.95	497.20	484.20	478.10	471.35	466.05
22.128 - 23.127	20	6	67	153	3411230h6	3413230h6	3415230h6	586.35	547.50	534.50	528.45	521.70	516.50
23.128 - 24.127	20	8	67	153	3411240h6	3413240h6	3415240h6	587.85	549.10	536.10	529.95	523.25	518.10
24.128 - 25.127	20	8	70	153	3411250h6	3413250h6	3415250h6	588.75	549.85	536.90	530.80	524.05	518.85

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CARBIDE TIPPED h6 SHANK REAMER - FLUTE FED COOLANT

TYPE 3427h6- STRAIGHT SHANK - LEFT SPIRAL FLUTES - THROUGH HOLES - FOR NON-FERROUS

TYPE 3428h6 - STRAIGHT SHANK - LEFT SPIRAL FLUTES - THROUGH HOLES - FOR CAST IRON

TYPE 3429h6 - STRAIGHT SHANK - LEFT SPIRAL FLUTES - THROUGH HOLES - FOR STEEL

Flute long carbide tips brazed to one piece hardened alloy steel bodies. Left spiral flutes. Material specific geometry and carbide grade for the ultimate in performance and tool life.

Coolant fed hole in each flute rapidly flushes chips forward ahead of the reamer to help break chips and provide superior finishes. Precision ground axially aligned diameters for accuracy.

Tool diameter tolerance: +.0002"/-.0000"

Shank diameter tolerance thru .3750": +.0000"/-.0003"

over .3750": +.0000"/-.0004"

DECIMAL SIZE RANGE	SHANK DIAMETER	NO. OF FLUTES	FLUTE LENGTH	OVERALL LENGTH	NON-FERR. TYPE 3427h6 EDP NO.	CAST IRON TYPE 3428h6 EDP NO.	STEEL TYPE 3429h6 EDP NO.	PRICE EACH - FINISHED TO DECIMAL SIZE					
								1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.3471 - .3780	.3125	4	1 ¾	5	342712h6	342812h6	342912h6	\$436.90	\$398.05	\$385.20	\$378.90	\$372.25	\$366.90
.3781 - .4090	.3125	4	1 ¾	5	342713h6	342813h6	342913h6	438.25	399.60	386.60	380.40	373.75	368.45
.4091 - .4410	.3750	6	1 ¾	5	342714h6	342814h6	342914h6	441.65	402.70	389.85	383.65	377.00	371.80
.4411 - .4720	.3750	6	1 ¾	5	342715h6	342815h6	342915h6	445.00	406.05	393.20	386.90	380.25	375.00
.4721 - .5030	.4375	6	2	6	342716h6	342816h6	342916h6	449.60	410.75	397.90	391.60	384.95	379.75
.5031 - .5340	.4375	6	2	6	342717h6	342817h6	342917h6	457.40	418.45	405.65	399.40	392.75	387.55
.5341 - .5660	.4375	6	2	6	342718h6	342818h6	342918h6	462.90	424.20	411.20	405.00	398.25	393.10
.5661 - .5970	.4375	6	2	6	342719h6	342819h6	342919h6	470.90	432.20	419.20	413.15	406.35	401.15
.5971 - .6280	.5625	6	2 ¼	6	342720h6	342820h6	342920h6	478.25	439.40	426.45	420.25	413.70	408.40
.6281 - .6590	.5625	6	2 ¼	6	342721h6	342821h6	342921h6	521.20	482.40	469.50	463.35	456.60	451.40
.6591 - .6910	.5625	6	2 ¼	6	342722h6	342822h6	342922h6	530.40	491.55	478.55	472.40	465.85	460.50
.6911 - .7220	.5625	6	2 ¼	6	342723h6	342823h6	342923h6	539.95	501.10	488.15	481.95	475.30	470.15
.7221 - .7530	.6250	6	2 ½	6	342724h6	342824h6	342924h6	549.75	511.00	498.05	491.80	485.20	479.90
.7531 - .7840	.6250	6	2 ½	6	342725h6	342825h6	342925h6	557.80	519.05	506.05	499.95	493.20	488.00
.7841 - .8160	.6250	6	2 ½	6	342726h6	342826h6	342926h6	563.65	524.90	511.90	505.75	499.20	493.90
.8161 - .8470	.6250	6	2 ½	6	342727h6	342827h6	342927h6	572.45	533.65	520.80	514.60	507.90	502.65
.8471 - .8780	.7500	6	2 ¾	6	342728h6	342828h6	342928h6	599.65	560.90	547.85	541.75	535.10	529.75
.8781 - .9090	.7500	6	2 ¾	6	342729h6	342829h6	342929h6	630.50	591.65	578.70	572.60	565.80	560.65
.9091 - .9410	.7500	8	2 ¾	6	342730h6	342830h6	342930h6	657.25	618.65	605.55	599.35	592.70	587.50
.9411 - .9720	.7500	8	2 ¾	6	342731h6	342831h6	342931h6	658.70	620.05	607.00	600.85	594.20	588.90
.9721 - 1.0030	.8750	8	2 ¾	6	342732h6	342832h6	342932h6	659.55	620.70	607.75	601.55	594.95	589.70

CARBIDE TIPPED h6 SHANK REAMER - FLUTE FED COOLANT

METRIC

TYPE 3427h6- STRAIGHT SHANK - LEFT SPIRAL FLUTES - THROUGH HOLES - FOR NON-FERROUS

TYPE 3428h6 - STRAIGHT SHANK - LEFT SPIRAL FLUTES - THROUGH HOLES - FOR CAST IRON

TYPE 3429h6 - STRAIGHT SHANK - LEFT SPIRAL FLUTES - THROUGH HOLES - FOR STEEL

Tool diameter tolerance: +.0051mm/-.0000mm.

Shank diameter tolerance thru 10mm: +.0000mm/-.0076mm.

over 10mm: +.0000mm/-.0102mm.

METRIC SIZE RANGE (mm)	SHANK DIAMETER (mm)	NO. OF FLUTES	FLUTE LENGTH (mm)	OVERALL LENGTH (mm)	NON-FERR. TYPE 3427h6 EDP NO.	CAST IRON TYPE 3428h6 EDP NO.	STEEL TYPE 3429h6 EDP NO.	PRICE EACH - FINISHED TO METRIC SIZE					
								1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
8.815 9.601	8	4	45	127	3427095h6	3428095h6	3429095h6	\$436.90	\$398.05	\$385.20	\$378.90	\$372.25	\$366.90
9.602 10.389	8	4	45	127	3427100h6	3428100h6	3429100h6	438.25	399.60	386.60	380.40	373.75	368.45
10.390 11.201	10	6	45	127	3427110h6	3428110h6	3429110h6	441.65	402.70	389.85	383.65	377.00	371.80
11.202 12.000	10	6	45	127	3427120h6	3428120h6	3429120h6	449.60	410.75	397.90	391.60	384.95	379.75
12.001 12.875	10	6	51	153	3427125h6	3428125h6	3429125h6	457.40	418.45	405.65	399.40	392.75	387.55
12.876 13.565	12	6	51	153	3427135h6	3428135h6	3429135h6	462.90	424.20	411.20	405.00	398.25	393.10
13.566 14.376	12	6	51	153	3427140h6	3428140h6	3429140h6	462.90	424.20	411.20	405.00	398.25	393.10
14.377 15.164	12	6	51	153	3427150h6	3428150h6	3429150h6	470.90	432.20	419.20	413.15	406.35	401.15
15.165 16.100	14	6	57	153	3427160h6	3428160h6	3429160h6	521.20	482.40	469.50	463.35	456.60	451.40
16.101 16.740	14	6	57	153	3427165h6	3428165h6	3429165h6	530.40	491.55	478.55	472.40	465.85	460.50
16.741 17.551	14	6	57	153	3427175h6	3428175h6	3429175h6	530.40	491.55	478.55	472.40	465.85	460.50
17.552 18.340	14	6	57	153	3427180h6	3428180h6	3429180h6	539.95	501.10	488.15	481.95	475.30	470.15
18.341 19.250	16	6	64	153	3427190h6	3428190h6	3429190h6	557.80	519.05	506.05	499.95	493.20	488.00
19.251 20.126	16	6	64	153	3427200h6	3428200h6	3429200h6	563.65	524.90	511.90	505.75	499.20	493.90
20.127 21.127	16	6	64	153	3427210h6	3428210h6	3429210h6	572.45	533.65	520.80	514.60	507.90	502.65
21.128 22.127	20	6	64	153	3427220h6	3428220h6	3429220h6	599.65	560.90	547.85	541.75	535.10	529.75
22.128 23.127	20	6	67	153	3427230h6	3428230h6	3429230h6	657.25	618.65	605.55	599.35	592.70	587.50
23.128 24.127	20	8	67	153	3427240h6	3428240h6	3429240h6	658.70	620.05	607.00	600.85	594.20	588.90
24.128 25.127	20	8	70	153	3427250h6	3428250h6	3429250h6	659.55	620.70	607.75	601.55	594.95	589.70

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*Quantities of 15 or more: call for pricing.

Made in U.S.A.

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CARBIDE TIPPED FLUTE FED COOLANT REAMERS

TYPE 3416 - STRAIGHT SHANK & FLUTES - THROUGH HOLES - FOR NON-FERROUS

TYPE 3426 - STRAIGHT SHANK & FLUTES - THROUGH HOLES - FOR CAST IRON

TYPE 3435 - STRAIGHT SHANK & FLUTES - THROUGH HOLES - FOR STEEL

Flute long carbide tips (.2841" tool diameter and larger) brazed to one piece hardened alloy steel bodies. Straight polished flutes.

Coolant feeding hole in each flute for flushing chips forward through the hole being reamed. Tool geometry and carbide grade appropriate for material being machined. For longer overall length reamers, see page 119.

For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MAX. SHANK DIAM.	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3416 EDP NO.	CAST IRON TYPE 3426 EDP NO.	STEEL TYPE 3435 EDP NO.	ALL TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTION			FLT	OAL						1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14**
.1875	3/16	.1805	4	1 1/4*	5	341606	342606	343506	\$205.55	.1770 - .2040	\$267.40	\$236.65	\$226.05	\$221.15	\$215.85	\$211.55
.2031	13/64	.1805	4	1 1/4*	5	34162031	34262031	34352031	205.55	-	-	-	-	-	-	-
.2188	7/32	.2075	4	1 1/4*	5	341607	342607	343507	205.55	.2041 - .2210	267.40	236.65	226.05	221.15	215.85	211.55
.2344	15/64	.2265	4	1 1/2*	6	34162344	34262344	34352344	205.55	.2211 - .2380	267.40	236.65	226.05	221.15	215.85	211.55
.2500	1/4	.2405	4	1 1/2*	6	341608	342608	343508	205.55	.2381 - .2530	267.40	236.65	226.05	221.15	215.85	211.55
.2656	17/64	.2485	4	1 1/2*	6	34162656	34262656	34352656	210.25	-	-	-	-	-	-	-
.2812	9/32	.2485	4	1 1/2*	6	341609	342609	343509	210.25	.2531 - .2840	272.15	241.15	230.75	225.75	220.45	216.35
.2969	19/64	.2792	4	1 1/2	6	34162969	34262969	34352969	228.10	-	-	-	-	-	-	-
.3125	5/16	.2792	4	1 1/2	6	341610	342610	343510	228.10	.2841 - .3150	290.10	258.95	248.50	243.65	238.45	234.20
.3281	21/64	.2792	4	1 1/2	6	34163281	34263281	34353281	228.10	-	-	-	-	-	-	-
.3438	11/32	.2792	4	1 1/2	6	341611	342611	343511	228.10	.3151 - .3470	290.10	258.95	248.50	243.65	238.45	234.20
.3594	23/64	.3105	4	1 3/4	7	34163594	34263594	34353594	228.10	-	-	-	-	-	-	-
.3750	3/8	.3105	4	1 3/4	7	341612	342612	343512	228.10	.3471 - .3780	290.10	258.95	248.50	243.65	238.45	234.20
.3906	25/64	.3105	4	1 3/4	7	34163906	34263906	34353906	233.70	-	-	-	-	-	-	-
.4062	13/32	.3105	4	1 3/4	7	341613	342613	343513	233.70	.3781 - .4090	295.65	264.75	254.40	249.35	244.10	239.80
.4219	27/64	.3730	6	1 3/4	7	34164219	34264219	34354219	239.45	-	-	-	-	-	-	-
.4375	7/16	.3730	6	1 3/4	7	341614	342614	343514	239.45	.4091 - .4410	301.35	270.35	260.05	255.00	249.85	245.55
.4531	29/64	.3730	6	1 3/4	7	34164531	34264531	34354531	239.45	-	-	-	-	-	-	-
.4688	15/32	.3730	6	1 3/4	7	341615	342615	343515	239.45	.4411 - .4720	301.35	270.35	260.05	255.00	249.85	245.55
.4844	31/64	.4355	6	2	8	34164844	34264844	34354844	239.45	-	-	-	-	-	-	-
.5000	1/2	.4355	6	2	8	341616	342616	343516	239.45	.4721 - .5030	301.35	270.35	260.05	255.00	249.85	245.55
.5156	33/64	.4355	6	2	8	34165156	34265156	34355156	253.25	-	-	-	-	-	-	-
.5312	17/32	.4355	6	2	8	341617	342617	343517	253.25	.5031 - .5340	315.10	284.20	273.80	268.90	263.45	259.40
.5625	9/16	.4355	6	2	8	341618	342618	343518	256.90	.5341 - .5660	318.75	287.80	277.30	272.40	267.00	262.85
.5938	19/32	.4355	6	2	8	341619	342619	343519	259.15	.5661 - .5970	321.00	290.15	279.70	274.75	269.45	265.20
.6250	5/8	.5615	6	2 1/4	9	341620	342620	343520	259.15	.5971 - .6280	321.00	290.15	279.70	274.75	269.45	265.20
.6562	21/32	.5615	6	2 1/4	9	341621	342621	343521	287.30	.6281 - .6590	349.35	318.20	307.75	302.95	297.50	293.50
.6875	11/16	.5615	6	2 1/4	9	341622	342622	343522	287.30	.6591 - .6910	349.35	318.20	307.75	302.95	297.50	293.50
.7188	23/32	.5615	6	2 1/4	9	341623	342623	343523	307.00	.6911 - .7220	368.95	337.95	327.55	322.65	317.20	313.05
.7500	3/4	.6245	6	2 1/2	9 1/2	341624	342624	343524	307.00	.7221 - .7530	368.95	337.95	327.55	322.65	317.20	313.05
.7812	25/32	.6245	6	2 1/2	9 1/2	341625	342625	343525	307.00	.7531 - .7840	368.95	337.95	327.55	322.65	317.20	313.05
.8125	13/16	.6245	6	2 1/2	9 1/2	341626	342626	343526	307.00	.7841 - .8160	368.95	337.95	327.55	322.65	317.20	313.05
.8438	27/32	.6245	6	2 1/2	9 1/2	341627	342627	343527	316.30	.8161 - .8470	378.15	347.30	336.70	331.90	326.60	322.30
.8750	7/8	.7495	6	2 5/8	10	341628	342628	343528	328.35	.8471 - .8780	392.50	360.25	349.50	344.35	338.90	334.55
.9062	29/32	.7495	6	2 5/8	10	341629	342629	343529	368.55	.8781 - .9090	432.75	400.60	389.85	384.65	379.05	374.80
.9375	15/16	.7495	8	2 5/8	10	341630	342630	343530	377.25	.9091 - .9410	441.30	409.20	398.35	393.25	387.70	383.45
.9688	31/32	.7495	8	2 5/8	10	341631	342631	343531	377.25	.9411 - .9720	441.30	409.20	398.35	393.25	387.70	383.45
1.0000	1	.8745	8	2 3/4	10 1/2	341632	342632	343532	377.25	.9721 - 1.0030	441.30	409.20	398.35	393.25	387.70	383.45
1.0625	1 1/16	.8745	8	2 3/4	10 1/2	341634	342634	343534	398.80	1.0031 - 1.0660	463.05	431.05	420.20	415.05	409.55	405.30
1.1250	1 1/8	.8745	8	2 7/8	11	341636	342636	343536	400.55	1.0661 - 1.1280	464.80	432.50	421.70	416.65	411.20	406.80
1.1875	1 3/16	.9995	8	2 7/8	11	341638	342638	343538	417.10	1.1281 - 1.1905	481.35	449.05	438.20	433.25	427.75	423.45
1.2500	1 1/4	.9995	8	3	11 1/2	341640	342640	343540	422.45	1.1906 - 1.2530	486.85	454.60	443.75	438.80	433.25	428.95
1.3125	1 3/8	.9995	8	3	11 1/2	341642	342642	343542	434.60	1.2531 - 1.3155	498.95	466.70	455.95	450.65	445.30	440.95
1.3750	1 3/8	.9995	8	3 1/4	12	341644	342644	343544	452.25	1.3156 - 1.3780	516.50	484.20	473.55	468.40	462.90	458.45
1.4375	1 7/16	.9995	8	3 1/4	12	341646	342646	343546	466.30	1.3781 - 1.4405	530.70	498.45	487.75	482.65	477.05	472.80
1.5000	1 1/2	1.2495	8	3 1/2	12 1/2	341648	342648	343548	481.95	1.4406 - 1.5030	546.30	514.10	503.35	498.20	492.70	488.30
1.5625	1 5/8	1.2495	8	3 1/2	12 1/2	341650	342650	343550	541.90	1.5031 - 1.5660	603.15	572.45	562.15	557.40	551.95	547.95
1.6250	1 5/8	1.2495	8	3 1/2	13	341652	342652	343552	595.80	1.5661 - 1.6280	657.05	626.50	616.05	611.25	605.95	601.95
1.6875	1 11/16	1.2495	8	3 1/2	13	341654	342654	343554	606.15	1.6281 - 1.6910	667.40	636.80	626.50	621.60	616.20	612.30
1.7500	1 3/4	1.2495	10	3 1/2	13 1/2	341656	342656	343556	662.40	1.6911 - 1.7530	723.65	693.05	682.65	677.90	672.60	668.45
1.8125	1 13/16	1.4995	10	3 1/2	13 1/2	341658	342658	343558	689.75	1.7531 - 1.8160	750.95	720.40	710.05	705.10	699.85	695.90
1.8750	1 7/8	1.4995	10	3 1/2	14	341660	342660	343560	726.20	1.8161 - 1.8780	787.55	756.75	746.55	741.70	736.35	732.25
1.9375	1 15/16	1.4995	10	3 1/2	14	341662	342662	343562	772.55	1.8781 - 1.9410	833.80	803.25	792.80	788.00	782.70	778.70
2.0000	2	1.4995	12	3 1/2	14	341664	342664	343564	800.60	1.9411 - 2.0030	861.85	831.20	820.95	816.10	810.65	806.75

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CARBIDE TIPPED FLUTE FED COOLANT REAMERS

METRIC



TYPE 3416 - STRAIGHT SHANK & FLUTES - THROUGH HOLES - FOR NON-FERROUS
TYPE 3426 - STRAIGHT SHANK & FLUTES - THROUGH HOLES - FOR CAST IRON
TYPE 3435 - STRAIGHT SHANK & FLUTES - THROUGH HOLES - FOR STEEL

Detailed description and fractional sizes on page 108. Tolerances on page 60.
 Tool diameter in millimeters with all other dimensions in inches.

TOOL DIAMETER		MAX. SHANK DIAM.	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3416 EDP NO.	CAST IRON TYPE 3426 EDP NO.	STEEL TYPE 3435 EDP NO.	ALL TYPES PRICE	METRIC SIZE RANGE	PRICE EACH - FINISHED TO METRIC SIZE						
mm	INCH			FLT	OAL						1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
4.5	.1772	.1704	4	1 1/4*	5	3416045	3426045	3435045	\$226.05	4.494 - 4.696	\$272.70	\$241.75	\$231.50	\$226.40	\$221.15	\$216.80	\$210.85
5.0	.1969	.1805	4	1 1/4*	5	3416050	3426050	3435050	226.05	4.697 - 5.182	272.70	241.75	231.50	226.40	221.15	216.80	210.85
5.5	.2165	.2075	4	1 1/4*	5	3416055	3426055	3435055	226.05	5.183 - 5.613	272.70	241.75	231.50	226.40	221.15	216.80	210.85
6.0	.2362	.2265	4	1 1/2*	6	3416060	3426060	3435060	226.05	5.614 - 6.045	272.70	241.75	231.50	226.40	221.15	216.80	210.85
-	-	.2405	4	1 1/2*	6	3416063	3426063	3435063	-	6.046 - 6.426	272.70	241.75	231.50	226.40	221.15	216.80	210.85
6.5	.2559	.2485	4	1 1/2*	6	3416065	3426065	3435065	230.75	6.427 - 7.214	277.30	246.40	236.00	230.95	225.75	221.45	215.60
7.0	.2756	.2485	4	1 1/2*	6	3416070	3426070	3435070	230.75	-	-	-	-	-	-	-	-
7.5	.2953	.2792	4	1 1/2	6	3416075	3426075	3435075	248.50	7.215 - 8.001	295.15	264.20	253.85	248.95	243.65	239.25	233.45
8.0	.3150	.2792	4	1 1/2	6	3416080	3426080	3435080	248.50	-	-	-	-	-	-	-	-
8.5	.3346	.2792	4	1 1/2	6	3416085	3426085	3435085	248.50	8.002 - 8.814	295.15	264.20	253.85	248.95	243.65	239.25	233.45
9.0	.3543	.3105	4	1 3/4	7	3416090	3426090	3435090	248.50	8.815 - 9.601	295.15	264.20	253.85	248.95	243.65	239.25	233.45
9.5	.3740	.3105	4	1 3/4	7	3416095	3426095	3435095	248.50	-	-	-	-	-	-	-	-
10.0	.3937	.3105	4	1 3/4	7	3416100	3426100	3435100	254.40	9.602 - 10.389	300.75	270.10	259.55	254.55	249.35	244.95	239.05
10.5	.4134	.3730	6	1 3/4	7	3416105	3426105	3435105	260.05	10.390 - 11.201	306.50	275.85	265.20	260.30	255.00	250.75	244.80
11.0	.4331	.3730	6	1 3/4	7	3416110	3426110	3435110	260.05	-	-	-	-	-	-	-	-
11.5	.4528	.3730	6	1 3/4	7	3416115	3426115	3435115	260.05	11.202 - 11.989	306.50	275.85	265.20	260.30	255.00	250.75	244.80
12.0	.4724	.4355	6	2	8	3416120	3426120	3435120	260.05	11.990 - 12.776	306.50	275.85	265.20	260.30	255.00	250.75	244.80
12.5	.4921	.4355	6	2	8	3416125	3426125	3435125	260.05	-	-	-	-	-	-	-	-
13.0	.5118	.4355	6	2	8	3416130	3426130	3435130	273.80	12.777 - 13.564	320.40	289.40	279.10	274.15	268.90	264.50	258.65
13.5	.5315	.4355	6	2	8	3416135	3426135	3435135	273.80	-	-	-	-	-	-	-	-
14.0	.5512	.4355	6	2	8	3416140	3426140	3435140	277.30	13.565 - 14.376	323.95	293.05	282.65	277.70	272.40	268.25	262.20
14.5	.5709	.4355	6	2	8	3416145	3426145	3435145	279.70	14.377 - 15.164	326.45	295.35	284.95	279.85	274.75	270.40	264.50
15.0	.5906	.4355	6	2	8	3416150	3426150	3435150	279.70	-	-	-	-	-	-	-	-
15.5	.6102	.5615	6	2 1/4	9	3416155	3426155	3435155	279.70	15.165 - 15.951	326.45	295.35	284.95	279.85	274.75	270.40	264.50
16.0	.6299	.5615	6	2 1/4	9	3416160	3426160	3435160	307.75	15.952 - 16.739	354.40	323.55	313.05	308.15	302.95	298.60	292.55
16.5	.6496	.5615	6	2 1/4	9	3416165	3426165	3435165	307.75	-	-	-	-	-	-	-	-
17.0	.6693	.5615	6	2 1/4	9	3416170	3426170	3435170	307.75	16.740 - 17.551	354.40	323.55	313.05	308.15	302.95	298.60	292.55
17.5	.6890	.5615	6	2 1/4	9	3416175	3426175	3435175	307.75	-	-	-	-	-	-	-	-
18.0	.7087	.6245	6	2 1/2	9 1/2	3416180	3426180	3435180	327.55	17.552 - 18.339	374.15	343.15	332.85	327.80	322.65	318.35	312.55
18.5	.7283	.6245	6	2 1/2	9 1/2	3416185	3426185	3435185	327.55	18.340 - 19.126	374.15	343.15	332.85	327.80	322.65	318.35	312.55
19.0	.7480	.6245	6	2 1/2	9 1/2	3416190	3426190	3435190	327.55	-	-	-	-	-	-	-	-
19.5	.7677	.6245	6	2 1/2	9 1/2	3416195	3426195	3435195	327.55	19.127 - 19.914	374.15	343.15	332.85	327.80	322.65	318.35	312.55
20.0	.7874	.6245	6	2 1/2	9 1/2	3416200	3426200	3435200	327.55	19.915 - 20.726	374.15	343.15	332.85	327.80	322.65	318.35	312.55
20.5	.8071	.6245	6	2 1/2	9 1/2	3416205	3426205	3435205	327.55	-	-	-	-	-	-	-	-
21.0	.8268	.6245	6	2 1/2	9 1/2	3416210	3426210	3435210	336.70	20.727 - 21.514	383.45	352.50	342.25	337.10	331.90	327.55	321.70
21.5	.8465	.6245	6	2 1/2	9 1/2	3416215	3426215	3435215	336.70	-	-	-	-	-	-	-	-
22.0	.8661	.7495	6	2 5/8	10	3416220	3426220	3435220	336.70	21.515 - 22.301	383.45	352.50	342.25	337.10	331.90	327.55	321.70
22.5	.8858	.7495	6	2 5/8	10	3416225	3426225	3435225	389.85	22.302 - 23.089	438.10	406.05	395.40	390.10	384.65	380.20	374.15
23.0	.9055	.7495	6	2 5/8	10	3416230	3426230	3435230	389.85	-	-	-	-	-	-	-	-
23.5	.9252	.7495	8	2 5/8	10	3416235	3426235	3435235	398.35	23.090 - 23.901	446.70	414.65	403.95	398.55	393.25	388.75	382.60
24.0	.9449	.7495	8	2 5/8	10	3416240	3426240	3435240	398.35	23.902 - 24.689	446.70	414.65	403.95	398.55	393.25	388.75	382.60
24.5	.9646	.7495	8	2 5/8	10	3416245	3426245	3435245	398.35	-	-	-	-	-	-	-	-
25.0	.9843	.8745	8	2 3/4	10 1/2	3416250	3426250	3435250	398.35	24.690 - 25.476	446.70	414.65	403.95	398.55	393.25	388.75	382.60
25.5	1.0039	.8745	8	2 3/4	10 1/2	3416255	3426255	3435255	420.20	25.477 - 27.076	468.50	436.50	425.80	420.35	415.05	410.50	404.40
26.0	1.0236	.8745	8	2 3/4	10 1/2	3416260	3426260	3435260	420.20	-	-	-	-	-	-	-	-
27.0	1.0630	.8745	8	2 3/4	10 1/2	3416270	3426270	3435270	420.20	-	-	-	-	-	-	-	-
28.0	1.1024	.8745	8	2 7/8	11	3416280	3426280	3435280	421.75	27.077 - 28.651	470.15	438.05	427.30	422.05	416.65	412.25	405.95
29.0	1.1417	.9995	8	2 7/8	11	3416290	3426290	3435290	438.20	28.652 - 30.239	486.80	454.60	443.75	438.55	433.25	428.75	422.45
30.0	1.1811	.9995	8	2 7/8	11	3416300	3426300	3435300	438.20	-	-	-	-	-	-	-	-
31.0	1.2205	.9995	8	3	11 1/2	3416310	3426310	3435310	443.75	30.240 - 31.826	492.15	460.10	449.45	444.05	438.80	434.25	428.05
32.0	1.2598	.9995	8	3	11 1/2	3416320	3426320	3435320	455.95	31.827 - 33.414	504.25	472.10	461.55	456.25	450.65	446.35	440.15
33.0	1.2992	.9995	8	3	11 1/2	3416330	3426330	3435330	455.95	-	-	-	-	-	-	-	-
34.0	1.3386	.9995	8	3 1/4	12	3416340	3426340	3435340	473.55	33.415 - 35.001	521.85	489.75	479.10	473.80	468.40	463.90	457.75
35.0	1.3780	.9995	8	3 1/4	12	3416350	3426350	3435350	473.55	-	-	-	-	-	-	-	-
36.0	1.4173	.9995	8	3 1/4	12	3416360	3426360	3435360	487.75	35.002 - 36.589	536.00	503.85	493.20	488.00	482.65	478.15	471.95
37.0	1.4567	1.2495	8	3 1/2	12 1/2	3416370	3426370	3435370	503.35	36.590 - 38.176	551.65	519.60	508.85	503.65	498.20	493.80	487.45
38.0	1.4961	1.2495	8	3 1/2	12 1/2	3416380	3426380	3435380	503.35	-	-	-	-	-	-	-	-

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*1/2" carbide length.

Made in U.S.A.

CARBIDE TIPPED CENTER FED COOLANT REAMERS

TYPE 3414 - STRAIGHT SHANK & FLUTES - BLIND HOLES - FOR NON-FERROUS

TYPE 3424 - STRAIGHT SHANK & FLUTES - BLIND HOLES - FOR CAST IRON

TYPE 3434 - STRAIGHT SHANK & FLUTES - BLIND HOLES - FOR STEEL

Flute long carbide tips (.2841" tool diameter and larger) brazed to one piece hardened alloy steel bodies. Straight polished flutes.

For length center coolant feeding hole for flushing chips back towards shank. Tool geometry and carbide grade appropriate for material being machined.

For reamer tolerances and closer tolerance pricing, see page 60.



TOOL DIAMETER		MAX. SHANK DIAM.	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3414 EDP NO.	CAST IRON TYPE 3424 EDP NO.	STEEL TYPE 3434 EDP NO.	ALL TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTION			FLT	OAL						1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14**
.1875	3/16	.1805	4	1 1/4*	5	341406	342406	343406	\$198.05	.1770 - .2040	\$260.05	\$229.00	\$218.55	\$213.65	\$208.35	\$204.20
.2031	13/64	.1805	4	1 1/4*	5	34142031	34242031	34342031	198.05	-	-	-	-	-	-	-
.2188	7/32	.2075	4	1 1/4*	5	341407	342407	343407	198.05	.2041 - .2210	260.05	229.00	218.55	213.65	208.35	204.20
.2344	15/64	.2265	4	1 1/2*	6	34142344	34242344	34342344	198.05	.2211 - .2380	260.05	229.00	218.55	213.65	208.35	204.20
.2500	1/4	.2405	4	1 1/2*	6	341408	342408	343408	198.05	.2381 - .2530	260.05	229.00	218.55	213.65	208.35	204.20
.2656	17/64	.2485	4	1 1/2*	6	34142656	34242656	34342656	210.25	-	-	-	-	-	-	-
.2812	9/32	.2485	4	1 1/2*	6	341409	342409	343409	210.25	.2531 - .2840	272.15	241.15	230.75	225.75	220.45	216.35
.2969	19/64	.2792	4	1 1/2	6	34142969	34242969	34342969	222.10	-	-	-	-	-	-	-
.3125	5/16	.2792	4	1 1/2	6	341410	342410	343410	222.10	.2841 - .3150	284.05	252.90	242.50	237.40	232.30	228.10
.3281	21/64	.2792	4	1 1/2	6	34143281	34243281	34343281	223.80	-	-	-	-	-	-	-
.3438	11/32	.2792	4	1 1/2	6	341411	342411	343411	223.80	.3151 - .3470	285.70	254.60	244.35	239.25	234.05	230.00
.3594	23/64	.3105	4	1 3/4	7	34143594	34243594	34343594	226.05	-	-	-	-	-	-	-
.3750	3/8	.3105	4	1 3/4	7	341412	342412	343412	226.05	.3471 - .3780	288.05	256.95	246.60	241.55	236.25	232.15
.3906	25/64	.3105	4	1 3/4	7	34143906	34243906	34343906	226.80	-	-	-	-	-	-	-
.4062	13/32	.3105	4	1 3/4	7	341413	342413	343413	226.80	.3781 - .4090	288.65	257.80	247.35	242.35	237.10	232.75
.4219	27/64	.3730	6	1 3/4	7	34144219	34244219	34344219	229.05	-	-	-	-	-	-	-
.4375	7/16	.3730	6	1 3/4	7	341414	342414	343414	229.05	.4091 - .4410	291.00	260.05	249.50	244.70	239.25	235.20
.4531	29/64	.3730	6	1 3/4	7	34144531	34244531	34344531	231.05	-	-	-	-	-	-	-
.4688	15/32	.3730	6	1 3/4	7	341415	342415	343415	231.05	.4411 - .4720	293.05	262.05	251.60	246.70	241.30	237.15
.4844	31/64	.4355	6	2	8	34144844	34244844	34344844	233.70	-	-	-	-	-	-	-
.5000	1/2	.4355	6	2	8	341416	342416	343416	233.70	.4721 - .5030	295.65	264.75	254.40	249.35	244.10	239.80
.5156	33/64	.4355	6	2	8	34145156	34245156	34345156	238.95	-	-	-	-	-	-	-
.5312	17/32	.4355	6	2	8	341417	342417	343417	238.95	.5031 - .5340	300.75	269.80	259.45	254.55	249.25	244.95
.5625	9/16	.4355	6	2	8	341418	342418	343418	242.35	.5341 - .5660	304.30	273.20	262.85	258.00	252.65	248.40
.5938	19/32	.4355	6	2	8	341419	342419	343419	247.45	.5661 - .5970	309.35	278.30	268.00	263.10	257.80	253.55
.6250	5/8	.5615	6	2 1/4	9	341420	342420	343420	252.15	.5971 - .6280	314.05	282.95	272.70	267.55	262.40	258.15
.6562	21/32	.5615	6	2 1/4	9	341421	342421	343421	279.10	.6281 - .6590	340.95	309.95	299.55	294.75	289.30	285.15
.6875	11/16	.5615	6	2 1/4	9	341422	342422	343422	284.80	.6591 - .6910	346.65	315.80	305.20	300.45	295.05	290.85
.7188	23/32	.5615	6	2 1/4	9	341423	342423	343423	297.05	.6911 - .7220	358.85	328.05	317.65	312.70	307.40	303.10
.7500	3/4	.6245	6	2 1/2	9 1/2	341424	342424	343424	297.05	.7221 - .7530	358.85	328.05	317.65	312.70	307.40	303.10
.7812	25/32	.6245	6	2 1/2	9 1/2	341425	342425	343425	305.90	.7531 - .7840	367.70	336.65	326.45	321.55	316.10	311.85
.8125	13/16	.6245	6	2 1/2	9 1/2	341426	342426	343426	305.90	.7841 - .8160	367.70	336.65	326.45	321.55	316.10	311.85
.8438	27/32	.6245	6	2 1/2	9 1/2	341427	342427	343427	316.30	.8161 - .8470	378.15	347.30	336.70	331.90	326.60	322.30
.8750	7/8	.7495	6	2 5/8	10	341428	342428	343428	328.35	.8471 - .8780	392.50	360.25	349.50	344.35	338.90	334.55
.9062	29/32	.7495	6	2 5/8	10	341429	342429	343429	364.45	.8781 - .9090	428.75	396.50	385.70	380.70	375.05	370.90
.9375	15/16	.7495	8	2 5/8	10	341430	342430	343430	364.45	.9091 - .9410	428.75	396.50	385.70	380.70	375.05	370.90
.9688	31/32	.7495	8	2 5/8	10	341431	342431	343431	365.90	.9411 - .9720	430.15	398.05	387.35	382.15	376.50	372.25
1.0000	1	.8745	8	2 3/4	10 1/2	341432	342432	343432	365.90	.9721 - 1.0030	430.15	398.05	387.35	382.15	376.50	372.25
1.0625	1 1/16	.8745	8	2 3/4	10 1/2	341434	342434	343434	376.35	1.0031 - 1.0660	440.60	408.40	397.60	392.50	386.85	382.60
1.1250	1 1/8	.8745	8	2 7/8	11	341436	342436	343436	389.40	1.0661 - 1.1280	453.60	421.45	410.50	405.45	399.90	395.55
1.1875	1 3/16	.9995	8	2 7/8	11	341438	342438	343438	417.10	1.1281 - 1.1905	481.35	449.05	438.20	433.25	427.75	423.45
1.2500	1 1/4	.9995	8	3	11 1/2	341440	342440	343440	422.45	1.1906 - 1.2530	486.85	454.60	443.75	438.80	433.25	428.95
1.3125	1 5/16	.9995	8	3	11 1/2	341442	342442	343442	434.60	1.2531 - 1.3155	498.95	466.70	455.95	450.65	445.30	440.95
1.3750	1 3/8	.9995	8	3 1/4	12	341444	342444	343444	452.25	1.3156 - 1.3780	516.50	484.20	473.55	468.40	462.90	458.45
1.4375	1 7/16	.9995	8	3 1/4	12	341446	342446	343446	466.30	1.3781 - 1.4405	530.70	498.45	487.75	482.65	477.05	472.80
1.5000	1 1/2	1.2495	8	3 1/2	12 1/2	341448	342448	343448	481.95	1.4406 - 1.5030	546.30	514.10	503.35	498.20	492.70	488.30
1.5625	1 5/8	1.2495	8	3 1/2	12 1/2	341450	342450	343450	513.15	1.5031 - 1.5660	574.40	543.80	533.50	528.65	523.25	519.30
1.6250	1 5/8	1.2495	8	3 1/2	13	341452	342452	343452	561.85	1.5661 - 1.6280	622.95	592.40	582.20	577.15	571.90	567.90
1.6875	1 11/16	1.2495	8	3 1/2	13	341454	342454	343454	573.65	1.6281 - 1.6910	634.95	604.40	594.15	589.15	583.85	579.80
1.7500	1 3/4	1.2495	10	3 1/2	13 1/2	341456	342456	343456	628.30	1.6911 - 1.7530	689.55	658.95	648.65	643.80	638.45	634.45
1.8125	1 13/16	1.4995	10	3 1/2	13 1/2	341458	342458	343458	653.95	1.7531 - 1.8160	715.25	684.65	674.35	669.45	664.05	660.15
1.8750	1 7/8	1.4995	10	3 1/2	14	341460	342460	343460	690.40	1.8161 - 1.8780	751.70	720.90	710.80	705.90	700.60	696.45
1.9375	1 15/16	1.4995	10	3 1/2	14	341462	342462	343462	731.95	1.8781 - 1.9410	793.20	762.60	752.30	747.45	742.15	738.00
2.0000	2	1.4995	12	3 1/2	14	341464	342464	343464	760.10	1.9411 - 2.0030	821.40	790.85	780.50	775.60	770.30	766.20

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CARBIDE TIPPED CENTER FED COOLANT REAMERS

METRIC



TYPE 3414 - STRAIGHT SHANK & FLUTES - BLIND HOLES - FOR NON-FERROUS
TYPE 3424 - STRAIGHT SHANK & FLUTES - BLIND HOLES - FOR CAST IRON
TYPE 3434 - STRAIGHT SHANK & FLUTES - BLIND HOLES - FOR STEEL

Detailed description and fractional sizes on page 110. Tolerances on page 60.
 Tool diameter in millimeters with all other dimensions in inches.

TOOL DIAMETER		MAX. SHANK DIAM.	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3414 EDP NO.	CAST IRON TYPE 3424 EDP NO.	STEEL TYPE 3434 EDP NO.	ALL TYPES PRICE	METRIC SIZE RANGE	PRICE EACH - FINISHED TO METRIC SIZE						
mm	INCH			FLT	OAL						1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
4.5	.1772	.1704	4	1 1/4*	5	3414045	3424045	3434045	\$218.55	4.494 - 4.696	\$265.15	\$234.30	\$223.85	\$218.95	\$213.65	\$209.35	\$203.35
5.0	.1969	.1805	4	1 1/4*	5	3414050	3424050	3434050	218.55	4.697 - 5.182	265.15	234.30	223.85	218.95	213.65	209.35	203.35
5.5	.2165	.2075	4	1 1/4*	5	3414055	3424055	3434055	218.55	5.183 - 5.613	265.15	234.30	223.85	218.95	213.65	209.35	203.35
6.0	.2362	.2265	4	1 1/2*	6	3414060	3424060	3434060	218.55	5.614 - 6.045	265.15	234.30	223.85	218.95	213.65	209.35	203.35
-	-	.2405	4	1 1/2*	6	3414063	3424063	3434063	-	6.046 - 6.426	265.15	234.30	223.85	218.95	213.65	209.35	203.35
6.5	.2559	.2485	4	1 1/2*	6	3414065	3424065	3434065	230.75	6.427 - 7.214	277.30	246.40	236.00	230.95	225.75	221.45	215.60
7.0	.2756	.2485	4	1 1/2*	6	3414070	3424070	3434070	230.75	-	-	-	-	-	-	-	-
7.5	.2953	.2792	4	1 1/2	6	3414075	3424075	3434075	242.50	7.215 - 8.001	289.10	258.15	247.95	242.85	237.40	233.40	227.25
8.0	.3150	.2792	4	1 1/2	6	3414080	3424080	3434080	242.50	-	-	-	-	-	-	-	-
8.5	.3346	.2792	4	1 1/2	6	3414085	3424085	3434085	244.35	8.002 - 8.814	290.85	260.05	249.50	244.55	239.25	235.05	229.05
9.0	.3543	.3105	4	1 3/4	7	3414090	3424090	3434090	246.60	8.815 - 9.601	293.10	262.25	251.80	246.75	241.55	237.25	231.50
9.5	.3740	.3105	4	1 3/4	7	3414095	3424095	3434095	246.60	-	-	-	-	-	-	-	-
10.0	.3937	.3105	4	1 3/4	7	3414100	3424100	3434100	247.35	9.602 - 10.389	293.85	263.10	252.65	247.60	242.35	238.05	232.15
10.5	.4134	.3730	6	1 3/4	7	3414105	3424105	3434105	249.50	10.390 - 11.201	296.15	265.20	254.90	249.95	244.70	240.40	234.35
11.0	.4331	.3730	6	1 3/4	7	3414110	3424110	3434110	249.50	-	-	-	-	-	-	-	-
11.5	.4528	.3730	6	1 3/4	7	3414115	3424115	3434115	251.60	11.202 - 11.989	298.25	267.25	256.95	251.80	246.70	242.35	236.65
12.0	.4724	.4355	6	2	8	3414120	3424120	3434120	254.40	11.990 - 12.776	300.75	270.10	259.55	254.55	249.35	244.95	239.05
12.5	.4921	.4355	6	2	8	3414125	3424125	3434125	254.40	-	-	-	-	-	-	-	-
13.0	.5118	.4355	6	2	8	3414130	3424130	3434130	259.45	12.777 - 13.564	306.10	275.20	264.85	259.60	254.55	250.15	244.35
13.5	.5315	.4355	6	2	8	3414135	3424135	3434135	259.45	-	-	-	-	-	-	-	-
14.0	.5512	.4355	6	2	8	3414140	3424140	3434140	262.85	13.565 - 14.376	309.50	278.50	268.30	263.25	258.00	253.65	247.65
14.5	.5709	.4355	6	2	8	3414145	3424145	3434145	268.00	14.377 - 15.164	314.50	283.60	273.20	268.30	263.10	258.80	252.75
15.0	.5906	.4355	6	2	8	3414150	3424150	3434150	268.00	-	-	-	-	-	-	-	-
15.5	.6102	.5615	6	2 1/4	9	3414155	3424155	3434155	272.70	15.165 - 15.951	319.20	288.40	278.00	272.85	267.55	263.40	257.35
16.0	.6299	.5615	6	2 1/4	9	3414160	3424160	3434160	299.55	15.952 - 16.739	346.15	315.25	304.90	299.90	294.75	290.40	284.35
16.5	.6496	.5615	6	2 1/4	9	3414165	3424165	3434165	299.55	-	-	-	-	-	-	-	-
17.0	.6693	.5615	6	2 1/4	9	3414170	3424170	3434170	305.20	16.740 - 17.551	351.90	320.90	310.70	305.60	300.45	296.05	290.15
17.5	.6890	.5615	6	2 1/4	9	3414175	3424175	3434175	305.20	-	-	-	-	-	-	-	-
18.0	.7087	.6245	6	2 1/2	9 1/2	3414180	3424180	3434180	317.65	17.552 - 18.339	364.15	333.40	322.80	317.80	312.70	308.30	302.40
18.5	.7283	.6245	6	2 1/2	9 1/2	3414185	3424185	3434185	317.65	18.340 - 19.126	364.15	333.40	322.80	317.80	312.70	308.30	302.40
19.0	.7480	.6245	6	2 1/2	9 1/2	3414190	3424190	3434190	317.65	-	-	-	-	-	-	-	-
19.5	.7677	.6245	6	2 1/2	9 1/2	3414195	3424195	3434195	326.45	19.127 - 19.914	372.85	342.10	331.75	326.60	321.55	317.05	311.10
20.0	.7874	.6245	6	2 1/2	9 1/2	3414200	3424200	3434200	326.45	19.915 - 20.726	372.85	342.10	331.75	326.60	321.55	317.05	311.10
20.5	.8071	.6245	6	2 1/2	9 1/2	3414205	3424205	3434205	326.45	-	-	-	-	-	-	-	-
21.0	.8268	.6245	6	2 1/2	9 1/2	3414210	3424210	3434210	336.70	20.727 - 21.514	383.45	352.50	342.25	337.10	331.90	327.55	321.70
21.5	.8465	.6245	6	2 1/2	9 1/2	3414215	3424215	3434215	336.70	-	-	-	-	-	-	-	-
22.0	.8661	.7495	6	2 5/8	10	3414220	3424220	3434220	336.70	21.515 - 22.301	383.45	352.50	342.25	337.10	331.90	327.55	321.70
22.5	.8858	.7495	6	2 5/8	10	3414225	3424225	3434225	385.70	22.302 - 23.089	434.10	402.05	391.30	386.00	380.70	376.25	370.00
23.0	.9055	.7495	6	2 5/8	10	3414230	3424230	3434230	385.70	-	-	-	-	-	-	-	-
23.5	.9252	.7495	8	2 5/8	10	3414235	3424235	3434235	385.70	23.090 - 23.901	434.10	402.05	391.30	386.00	380.70	376.25	370.00
24.0	.9449	.7495	8	2 5/8	10	3414240	3424240	3434240	387.35	23.902 - 24.689	435.60	403.50	392.75	387.55	382.15	377.60	371.40
24.5	.9646	.7495	8	2 5/8	10	3414245	3424245	3434245	387.35	-	-	-	-	-	-	-	-
25.0	.9843	.8745	8	2 3/4	10 1/2	3414250	3424250	3434250	387.35	24.690 - 25.476	435.60	403.50	392.75	387.55	382.15	377.60	371.40
25.5	1.0039	.8745	8	2 3/4	10 1/2	3414255	3424255	3434255	397.60	25.477 - 27.076	445.90	413.85	403.15	397.90	392.50	388.05	381.85
26.0	1.0236	.8745	8	2 3/4	10 1/2	3414260	3424260	3434260	397.60	-	-	-	-	-	-	-	-
27.0	1.0630	.8745	8	2 3/4	10 1/2	3414270	3424270	3434270	397.60	-	-	-	-	-	-	-	-
28.0	1.1024	.8745	8	2 7/8	11	3414280	3424280	3434280	410.50	27.077 - 28.651	459.05	426.85	416.05	410.80	405.45	401.05	394.80
29.0	1.1417	.9995	8	2 7/8	11	3414290	3424290	3434290	438.20	28.652 - 30.239	486.80	454.60	443.75	438.55	433.25	428.75	422.45
30.0	1.1811	.9995	8	2 7/8	11	3414300	3424300	3434300	438.20	-	-	-	-	-	-	-	-
31.0	1.2205	.9995	8	3	11 1/2	3414310	3424310	3434310	443.75	30.240 - 31.826	492.15	460.10	449.45	444.05	438.80	434.25	428.05
32.0	1.2598	.9995	8	3	11 1/2	3414320	3424320	3434320	455.95	31.827 - 33.414	504.25	472.10	461.55	456.25	450.65	446.35	440.15
33.0	1.2992	.9995	8	3	11 1/2	3414330	3424330	3434330	455.95	-	-	-	-	-	-	-	-
34.0	1.3386	.9995	8	3 1/4	12	3414340	3424340	3434340	473.55	33.415 - 35.001	521.85	489.75	479.10	473.80	468.40	463.90	457.75
35.0	1.3780	.9995	8	3 1/4	12	3414350	3424350	3434350	473.55	-	-	-	-	-	-	-	-
36.0	1.4173	.9995	8	3 1/4	12	3414360	3424360	3434360	487.75	35.002 - 36.589	536.00	503.85	493.20	488.00	482.65	478.15	471.95
37.0	1.4567	1.2495	8	3 1/2	12 1/2	3414370	3424370	3434370	503.35	36.590 - 38.176	551.65	519.60	508.85	503.65	498.20	493.80	487.45
38.0	1.4961	1.2495	8	3 1/2	12 1/2	3414380	3424380	3434380	503.35	-	-	-	-	-	-	-	-

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*1/2" carbide length.

Made in U.S.A.

CARBIDE TIPPED RIGHT SPIRAL FLUTE FED COOLANT REAMERS

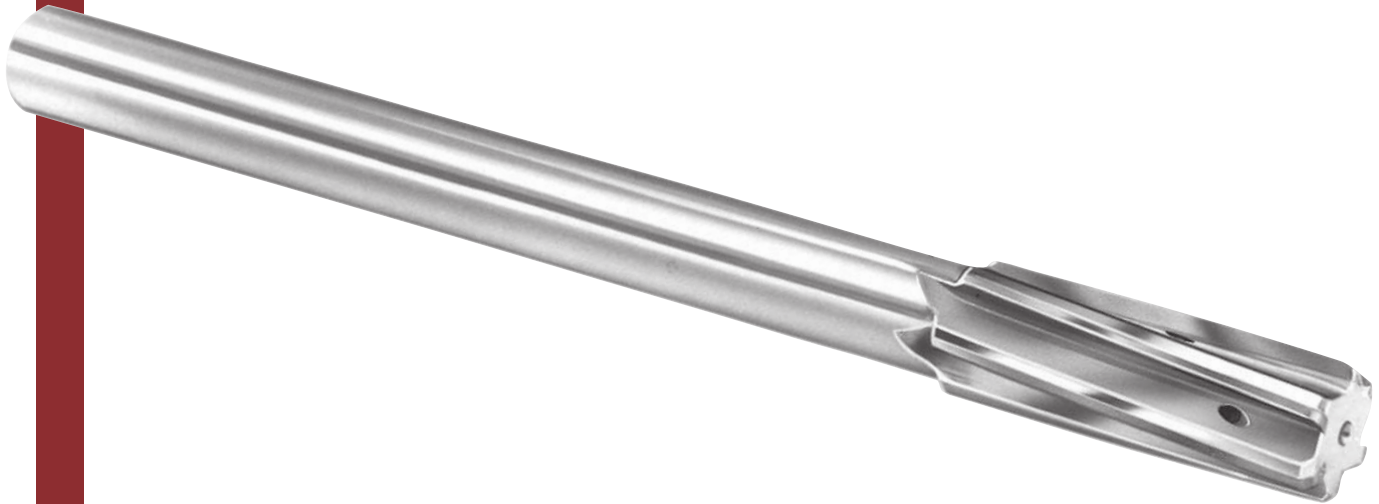
TYPE 3417 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - THROUGH HOLES - FOR NON-FERROUS

TYPE 3418 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - THROUGH HOLES - FOR CAST IRON

TYPE 3419 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - THROUGH HOLES - FOR STEEL

Flute long carbide tips (.2841" tool diameter and larger) brazed to one piece hardened alloy steel bodies.
Right spiral flutes.

Coolant feeding hole in each flute for flushing chips forward through the hole being reamed.
Tool geometry and carbide grade appropriate for material being machined.



For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MAX. SHANK DIAM.	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3417 EDP NO.	CAST IRON TYPE 3418 EDP NO.	STEEL TYPE 3419 EDP NO.	ALL TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTION			FLT	OAL						1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14**
.2500	1/4	.2405	4	1 1/2*	6	341708	341808	341908	\$217.95	.2381 - .2530	\$279.80	\$248.95	\$238.50	\$233.55	\$228.30	\$224.00
.2812	9/32	.2485	4	1 1/2*	6	341709	341809	341909	231.20	.2531 - .2840	293.10	262.20	251.65	246.75	241.45	237.25
.3125	5/16	.2792	4	1 1/2	6	341710	341810	341910	244.35	.2841 - .3150	306.20	275.20	264.85	260.00	254.55	250.40
.3438	11/32	.2792	4	1 1/2	6	341711	341811	341911	246.25	.3151 - .3470	308.15	277.05	266.70	261.80	256.35	252.45
.3750	3/8	.3105	4	1 3/4	7	341712	341812	341912	248.55	.3471 - .3780	310.70	279.55	269.15	264.20	258.95	254.75
.4062	13/32	.3105	4	1 3/4	7	341713	341813	341913	249.40	.3781 - .4090	311.30	280.30	270.10	265.05	259.60	255.55
.4375	7/16	.3730	6	1 3/4	7	341714	341814	341914	252.05	.4091 - .4410	313.95	282.90	272.60	267.45	262.25	258.10
.4688	15/32	.3730	6	1 3/4	7	341715	341815	341915	254.40	.4411 - .4720	316.25	285.15	274.75	269.80	264.50	260.35
.5000	1/2	.4355	6	2	8	341716	341816	341916	257.10	.4721 - .5030	318.95	288.10	277.85	272.75	267.40	263.30
.5312	17/32	.4355	6	2	8	341717	341817	341917	266.65	.5031 - .5340	328.50	297.35	287.05	282.30	276.75	272.70
.5625	9/16	.4355	6	2	8	341718	341818	341918	266.65	.5341 - .5660	328.50	297.35	287.05	282.30	276.75	272.70
.5938	19/32	.4355	6	2	8	341719	341819	341919	277.15	.5661 - .5970	339.05	308.15	297.65	292.80	287.35	283.20
.6250	5/8	.5615	6	2 1/4	9	341720	341820	341920	277.15	.5971 - .6280	339.05	308.15	297.65	292.80	287.35	283.20
.6562	21/32	.5615	6	2 1/4	9	341721	341821	341921	313.05	.6281 - .6590	375.00	344.15	333.70	328.65	323.35	319.20
.6875	11/16	.5615	6	2 1/4	9	341722	341822	341922	313.05	.6591 - .6910	375.00	344.15	333.70	328.65	323.35	319.20
.7188	23/32	.5615	6	2 1/4	9	341723	341823	341923	326.75	.6911 - .7220	388.65	357.60	347.45	342.40	337.10	332.85
.7500	3/4	.6245	6	2 1/2	9 1/2	341724	341824	341924	326.75	.7221 - .7530	388.65	357.60	347.45	342.40	337.10	332.85
.7812	25/32	.6245	6	2 1/2	9 1/2	341725	341825	341925	352.05	.7531 - .7840	413.90	382.90	372.65	367.70	362.35	358.25
.8125	13/16	.6245	6	2 1/2	9 1/2	341726	341826	341926	356.45	.7841 - .8160	418.30	387.35	376.95	372.10	366.65	362.45
.8438	27/32	.6245	6	2 1/2	9 1/2	341727	341827	341927	363.20	.8161 - .8470	425.10	394.05	383.60	378.70	373.30	369.25
.8750	7/8	.7495	6	2 5/8	10	341728	341828	341928	382.70	.8471 - .8780	447.00	414.80	404.10	398.80	393.35	388.90
.9062	29/32	.7495	6	2 5/8	10	341729	341829	341929	405.45	.8781 - .9090	469.65	437.55	426.75	421.60	416.05	411.80
.9375	15/16	.7495	8	2 5/8	10	341730	341830	341930	424.95	.9091 - .9410	489.20	456.95	446.10	441.15	435.60	431.30
.9688	31/32	.7495	8	2 5/8	10	341731	341831	341931	426.10	.9411 - .9720	490.35	458.20	447.35	442.20	436.65	432.35
1.0000	1	.8745	8	2 3/4	10 1/2	341732	341832	341932	426.75	.9721 - 1.0030	491.10	458.95	448.00	442.85	437.40	433.10
1.0625	1 1/16	.8745	8	2 3/4	10 1/2	341734	341834	341934	492.15	1.0031 - 1.0660	556.35	524.20	513.40	508.25	502.80	498.45
1.1250	1 1/8	.8745	8	2 7/8	11	341736	341836	341936	494.25	1.0661 - 1.1280	558.55	526.25	515.50	510.40	505.00	500.55
1.1875	1 3/8	.9995	8	2 7/8	11	341738	341838	341938	514.75	1.1281 - 1.1905	578.80	546.60	535.95	530.80	525.35	520.95
1.2500	1 1/4	.9995	8	3	11 1/2	341740	341840	341940	521.40	1.1906 - 1.2530	585.65	553.45	542.80	537.60	532.05	527.75
1.3125	1 5/16	.9995	8	3	11 1/2	341742	341842	341942	536.55	1.2531 - 1.3155	600.70	568.50	557.65	552.55	547.10	542.80
1.3750	1 3/8	.9995	8	3 1/4	12	341744	341844	341944	558.00	1.3156 - 1.3780	622.40	590.20	579.30	574.35	568.80	564.45
1.4375	1 7/16	.9995	8	3 1/4	12	341746	341846	341946	575.45	1.3781 - 1.4405	639.90	607.60	596.85	591.80	586.35	581.90
1.5000	1 1/2	1.2495	8	3 1/2	12 1/2	341748	341848	341948	594.90	1.4406 - 1.5030	659.10	627.05	616.15	611.00	605.50	601.15

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CARBIDE TIPPED RIGHT SPIRAL CENTER FED COOLANT REAMERS

TYPE 3411 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - BLIND HOLES - FOR NON-FERROUS

TYPE 3413 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - BLIND HOLES - FOR CAST IRON

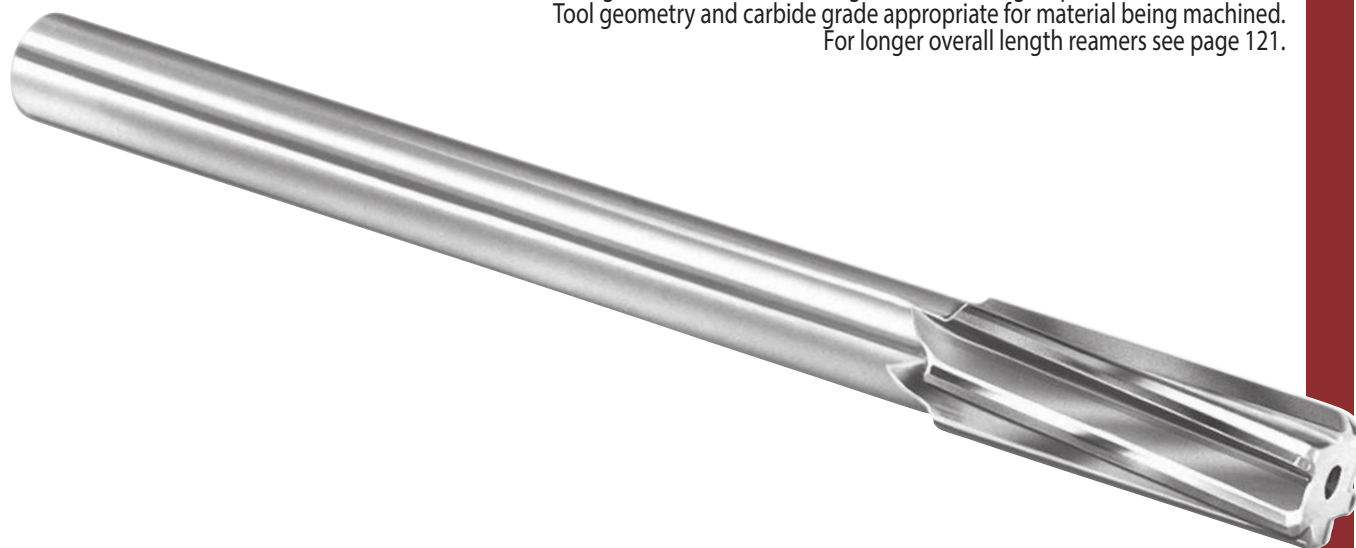
TYPE 3415 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - BLIND HOLES - FOR STEEL

Flute long carbide tips (.2841" tool diameter and larger) brazed to one piece hardened alloy steel bodies. Right spiral flutes.

Full length center coolant feeding hole for flushing chips back towards shank.

Tool geometry and carbide grade appropriate for material being machined.

For longer overall length reamers see page 121.



For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MAX. SHANK DIAM.	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3411 EDP NO.	CAST IRON TYPE 3413 EDP NO.	STEEL TYPE 3415 EDP NO.	ALL TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL			FLT.	OAL						1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14**
.2500	1/4	.2405	4	1 1/2*	6	341108	341308	341508	\$203.50	.2381 - .2530	\$261.20	\$232.30	\$222.55	\$217.95	\$212.95	\$209.05
.2812	9/32	.2485	4	1 1/2*	6	341109	341309	341509	208.15	.2531 - .2840	263.85	235.95	226.55	222.20	217.50	213.50
.3125	5/16	.2792	4	1 1/2	6	341110	341310	341510	228.10	.2841 - .3150	285.85	256.90	247.15	242.50	237.40	233.60
.3438	11/32	.2792	4	1 1/2	6	341111	341311	341511	229.75	.3151 - .3470	287.50	258.65	249.05	244.35	239.25	235.40
.3750	3/8	.3105	4	1 3/4	7	341112	341312	341512	232.15	.3471 - .3780	289.95	260.80	251.20	246.70	241.75	237.90
.4062	13/32	.3105	4	1 3/4	7	341113	341313	341513	232.75	.3781 - .4090	290.55	261.75	252.05	247.35	242.35	238.50
.4375	7/16	.3730	6	1 3/4	7	341114	341314	341514	235.20	.4091 - .4410	293.05	264.00	254.40	249.85	244.80	241.00
.4688	15/32	.3730	6	1 3/4	7	341115	341315	341515	237.25	.4411 - .4720	295.15	266.05	256.50	251.80	246.85	243.00
.5000	1/2	.4355	6	2	8	341116	341316	341516	246.55	.4721 - .5030	305.90	276.10	266.05	261.35	256.30	252.45
.5312	17/32	.4355	6	2	8	341117	341317	341517	255.45	.5031 - .5340	314.70	284.95	275.05	270.35	265.20	261.25
.5625	9/16	.4355	6	2	8	341118	341318	341518	255.45	.5341 - .5660	314.70	284.95	275.05	270.35	265.20	261.25
.5938	19/32	.4355	6	2	8	341119	341319	341519	265.60	.5661 - .5970	325.00	295.20	285.25	280.65	275.40	271.50
.6250	5/8	.5615	6	2 1/4	9	341120	341320	341520	265.60	.5971 - .6280	325.00	295.20	285.25	280.65	275.40	271.50
.6562	21/32	.5615	6	2 1/4	9	341121	341321	341521	300.15	.6281 - .6590	359.40	329.75	319.70	314.95	309.90	305.95
.6875	11/16	.5615	6	2 1/4	9	341122	341322	341522	300.15	.6591 - .6910	359.40	329.75	319.70	314.95	309.90	305.95
.7188	23/32	.5615	6	2 1/4	9	341123	341323	341523	313.05	.6911 - .7220	372.55	342.75	332.85	328.25	322.95	318.90
.7500	3/4	.6245	6	2 1/2	9 1/2	341124	341324	341524	294.15	.7221 - .7530	349.95	321.90	312.70	308.15	303.30	299.55
.7812	25/32	.6245	6	2 1/2	9 1/2	341125	341325	341525	337.50	.7531 - .7840	396.75	366.95	357.15	352.30	347.30	343.15
.8125	13/16	.6245	6	2 1/2	9 1/2	341126	341326	341526	341.55	.7841 - .8160	400.90	371.10	361.30	356.55	351.55	347.55
.8438	27/32	.6245	6	2 1/2	9 1/2	341127	341327	341527	347.90	.8161 - .8470	407.50	377.60	367.70	362.90	357.90	353.90
.8750	7/8	.7495	6	2 5/8	10	341128	341328	341528	366.75	.8471 - .8780	428.20	397.60	387.15	382.30	376.95	372.85
.9062	29/32	.7495	6	2 5/8	10	341129	341329	341529	388.60	.8781 - .9090	450.10	419.30	409.00	404.15	398.70	394.65
.9375	15/16	.7495	8	2 5/8	10	341130	341330	341530	407.20	.9091 - .9410	468.85	437.95	427.75	422.70	417.30	413.25
.9688	31/32	.7495	8	2 5/8	10	341131	341331	341531	408.40	.9411 - .9720	469.80	439.10	428.75	423.75	418.45	414.45
1.0000	1	.8745	8	2 3/4	10 1/2	341132	341332	341532	409.00	.9721 - 1.0030	470.55	439.70	429.40	424.50	419.20	415.05
1.0625	1 1/16	.8745	8	2 3/4	10 1/2	341134	341334	341534	420.35	1.0031 - 1.0660	481.85	451.25	440.80	435.85	430.55	426.45
1.1250	1 1/8	.8745	8	2 7/8	11	341136	341336	341536	434.95	1.0661 - 1.1280	496.60	465.70	455.50	450.50	445.30	441.15
1.1875	1 3/16	.9995	8	2 7/8	11	341138	341338	341538	466.00	1.1281 - 1.1905	527.55	496.85	486.35	481.55	476.05	471.95
1.2500	1 1/4	.9995	8	3	11 1/2	341140	341340	341540	471.95	1.1906 - 1.2530	533.50	502.75	492.45	487.45	482.25	478.15
1.3125	1 5/16	.9995	8	3	11 1/2	341142	341342	341542	485.65	1.2531 - 1.3155	547.20	516.35	506.00	501.10	495.85	491.65
1.3750	1 3/8	.9995	8	3 1/4	12	341144	341344	341544	505.40	1.3156 - 1.3780	567.00	536.10	525.70	520.95	515.50	511.45
1.4375	1 7/16	.9995	8	3 1/4	12	341146	341346	341546	521.10	1.3781 - 1.4405	582.65	551.80	541.50	536.60	531.25	527.25
1.5000	1 1/2	1.2495	8	3 1/2	12 1/2	341148	341348	341548	538.75	1.4406 - 1.5030	600.25	569.55	559.15	554.15	548.95	544.85

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*1/2" carbide length. **Quantities of 15 or more: price of fractional size in same size range.

Made in U.S.A.

CARBIDE TIPPED LEFT SPIRAL COOLANT REAMERS

TYPE 3427 - STRAIGHT SHANK - LEFT SPIRAL FLUTES - THROUGH HOLES - FOR NON-FERROUS

TYPE 3428 - STRAIGHT SHANK - LEFT SPIRAL FLUTES - THROUGH HOLES - FOR CAST IRON

TYPE 3429 - STRAIGHT SHANK - LEFT SPIRAL FLUTES - THROUGH HOLES - FOR STEEL

Flute long carbide tips (.2841" tool diameter and larger) brazed to one piece hardened alloy steel bodies.
Left spiral flutes.

Coolant feeding hole in each flute for flushing chips forward through the hole being reamed.
Tool geometry and carbide grade appropriate for material being machined.
For longer overall length reamers, see page 123.



For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MAX. SHANK DIAM.	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3427 EDP NO.	CAST IRON TYPE 3428 EDP NO.	STEEL TYPE 3429 EDP NO.	ALL TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL			FLT	OAL						1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14**
.2500	1/4	.2405	4	1 1/2*	6	342708	342808	342908	\$252.05	.2381 - .2530	\$313.95	\$282.90	\$272.60	\$267.45	\$262.25	\$258.10
.2812	9/32	.2485	4	1 1/2*	6	342709	342809	342909	267.25	.2531 - .2840	329.10	298.25	287.90	282.90	277.70	273.45
.3125	5/16	.2792	4	1 1/2	6	342710	342810	342910	282.45	.2841 - .3150	344.30	313.15	302.95	298.00	292.55	288.50
.3438	11/32	.2792	4	1 1/2	6	342711	342811	342911	284.65	.3151 - .3470	346.30	315.35	305.05	300.15	294.85	290.55
.3750	3/8	.3105	4	1 3/4	7	342712	342812	342912	287.35	.3471 - .3780	349.40	318.35	308.00	303.00	297.65	293.65
.4062	13/32	.3105	4	1 3/4	7	342713	342813	342913	288.55	.3781 - .4090	350.50	319.55	309.15	304.20	298.75	294.75
.4375	7/16	.3730	6	1 3/4	7	342714	342814	342914	291.30	.4091 - .4410	353.30	322.20	311.85	306.95	301.70	297.35
.4688	15/32	.3730	6	1 3/4	7	342715	342815	342915	293.85	.4411 - .4720	355.70	324.85	314.40	309.50	304.20	300.00
.5000	1/2	.4355	6	2	8	342716	342816	342916	297.65	.4721 - .5030	359.70	328.55	318.20	313.15	308.00	303.85
.5312	17/32	.4355	6	2	8	342717	342817	342917	303.90	.5031 - .5340	365.85	334.75	324.40	319.55	314.20	309.95
.5625	9/16	.4355	6	2	8	342718	342818	342918	308.30	.5341 - .5660	370.20	339.20	328.80	323.95	318.60	314.40
.5938	19/32	.4355	6	2	8	342719	342819	342919	314.70	.5661 - .5970	376.55	345.70	335.30	330.35	325.10	320.85
.6250	5/8	.5615	6	2 1/4	9	342720	342820	342920	320.60	.5971 - .6280	382.45	351.55	341.05	336.20	330.85	326.65
.6562	21/32	.5615	6	2 1/4	9	342721	342821	342921	355.00	.6281 - .6590	417.00	385.95	375.60	370.65	365.30	361.05
.6875	11/16	.5615	6	2 1/4	9	342722	342822	342922	362.20	.6591 - .6910	424.20	393.20	382.70	377.85	372.55	368.40
.7188	23/32	.5615	6	2 1/4	9	342723	342823	342923	370.00	.6911 - .7220	431.85	400.85	390.40	385.50	380.20	375.95
.7500	3/4	.6245	6	2 1/2	9 1/2	342724	342824	342924	377.85	.7221 - .7530	439.70	408.75	398.25	393.50	388.05	383.95
.7812	25/32	.6245	6	2 1/2	9 1/2	342725	342825	342925	384.25	.7531 - .7840	446.10	415.25	404.70	399.85	394.50	390.30
.8125	13/16	.6245	6	2 1/2	9 1/2	342726	342826	342926	388.90	.7841 - .8160	450.65	419.90	409.45	404.45	399.25	394.95
.8438	27/32	.6245	6	2 1/2	9 1/2	342727	342827	342927	396.00	.8161 - .8470	458.05	427.00	416.55	411.55	406.25	402.20
.8750	7/8	.7495	6	2 5/8	10	342728	342828	342928	417.55	.8471 - .8780	481.80	449.65	438.85	433.70	428.10	423.75
.9062	29/32	.7495	6	2 5/8	10	342729	342829	342929	442.10	.8781 - .9090	506.35	474.10	463.45	458.30	452.85	448.45
.9375	15/16	.7495	8	2 5/8	10	342730	342830	342930	463.75	.9091 - .9410	527.85	495.80	484.95	479.85	474.15	470.00
.9688	31/32	.7495	8	2 5/8	10	342731	342831	342931	464.95	.9411 - .9720	529.05	497.00	486.10	480.95	475.45	471.15
1.0000	1	.8745	8	2 3/4	10 1/2	342732	342832	342932	465.55	.9721 - 1.0030	529.75	497.60	486.85	481.65	476.05	471.75
1.0625	1 1/16	.8745	8	2 3/4	10 1/2	342734	342834	342934	492.15	1.0031 - 1.0660	556.35	524.20	513.40	508.25	502.80	498.45
1.1250	1 1/8	.8745	8	2 7/8	11	342736	342836	342936	494.25	1.0661 - 1.1280	558.55	526.25	515.50	510.40	505.00	500.55
1.1875	1 3/16	.9995	8	2 7/8	11	342738	342838	342938	514.75	1.1281 - 1.1905	578.80	546.60	535.95	530.80	525.35	520.95
1.2500	1 1/4	.9995	8	3	11 1/2	342740	342840	342940	521.40	1.1906 - 1.2530	585.65	553.45	542.80	537.60	532.05	527.75
1.3125	1 5/16	.9995	8	3	11 1/2	342742	342842	342942	536.55	1.2531 - 1.3155	600.70	568.50	557.65	552.55	547.10	542.80
1.3750	1 3/8	.9995	8	3 1/4	12	342744	342844	342944	558.00	1.3156 - 1.3780	622.40	590.20	579.30	574.35	568.80	564.45
1.4375	1 7/16	.9995	8	3 1/4	12	342746	342846	342946	575.45	1.3781 - 1.4405	639.90	607.60	596.85	591.80	586.35	581.90
1.5000	1 1/2	1.2495	8	3 1/2	12 1/2	342748	342848	342948	594.90	1.4406 - 1.5030	659.10	627.05	616.15	611.00	605.50	601.15

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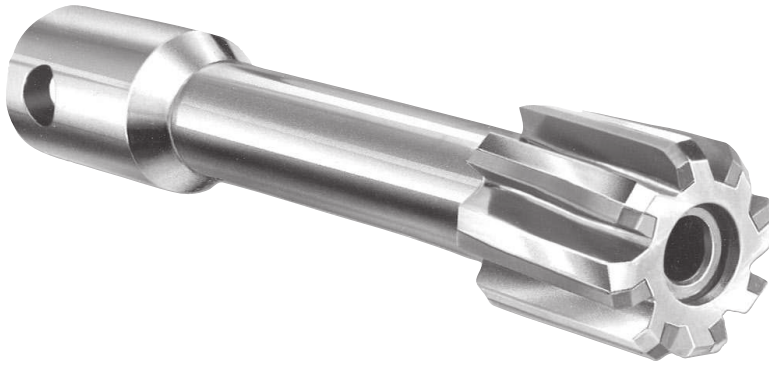
CARBIDE TIPPED COOLANT REAMERS

TYPE 3490 - RIGHT SPIRAL FLUTE LONG CARBIDE

Flute long carbide tips brazed to one piece hardened alloy steel bodies.

Similar to Barber-Colman/Metcut OFC reamer. Full length coolant hole. Right spiral polished flutes: 2° to 5°. Positive face rake angles (behind center). Shank cross hole for use in floating holder.

Designed and manufactured to cut smooth accurate holes and maximize tool life.



Tool diameter tolerance: +.0003"/-.0000".
For closer tolerance pricing, see page 60.

TOOL DIAMETER		SHANK DIAM.	SHANK LEN.	NO. OF FLUTES	LENGTH		EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL				FLT	OAL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.3750	3/8	3/8	3/4	6	1/2	2 1/2	349012	\$192.50	.3181 - .3800	\$311.10	\$251.60	\$231.80	\$222.35	\$212.15	\$204.10
.4062	13/32	3/8	3/4	6	1/2	2 5/8	349013	195.35	.3801 - .4090	313.95	254.55	234.60	225.05	214.95	207.00
.4375	7/16	3/8	3/4	6	1/2	2 5/8	349014	195.35	.4091 - .4410	313.95	254.55	234.60	225.05	214.95	207.00
.4688	15/32	5/8	1	6	5/8	3 1/2	349015	200.65	.4411 - .4720	319.25	259.90	240.10	230.45	220.20	212.30
.5000	1/2	5/8	1	6	5/8	3 1/2	349016	200.65	.4721 - .5050	319.25	259.90	240.10	230.45	220.20	212.30
.5625	9/16	5/8	1	6	3/4	3 3/4	349018	219.30	.5051 - .5660	337.95	278.35	258.65	249.20	238.95	230.95
.6250	5/8	5/8	1	6	3/4	3 3/4	349020	219.30	.5661 - .6300	337.95	278.35	258.65	249.20	238.95	230.95
.6875	11/16	5/8	1	6	3/4	4 1/4	349022	243.30	.6301 - .6910	361.95	302.55	282.65	273.05	263.00	254.90
.7500	3/4	5/8	1	6	3/4	4 1/4	349024	243.30	.6911 - .7550	361.95	302.55	282.65	273.05	263.00	254.90
.8125	13/16	5/8	1	6	7/8	4 3/4	349026	256.60	.7551 - .8160	375.35	316.00	295.95	286.45	276.30	268.40
.8750	7/8	5/8	1	6	7/8	4 3/4	349028	266.35	.8161 - .8800	389.55	327.80	307.10	297.25	286.85	278.35
.9375	15/16	1	1 1/2	8	1	5 1/2	349030	319.20	.8801 - .9410	442.35	380.70	360.00	350.20	339.65	331.30
1.0000	1	1	1 1/2	8	1	5 1/2	349032	319.20	.9411 - 1.0050	442.35	380.70	360.00	350.20	339.65	331.30
1.0625	1 1/16	1	1 1/2	8	1 1/4	6	349034	353.30	1.0051 - 1.0660	481.65	417.25	395.85	385.50	374.45	365.85
1.1250	1 1/8	1	1 1/2	8	1 1/4	6	349036	353.30	1.0661 - 1.1300	481.65	417.25	395.85	385.50	374.45	365.85
1.1875	1 3/16	1	1 1/2	8	1 1/4	6	349038	361.95	1.1301 - 1.1900	490.50	426.10	404.55	394.25	383.35	374.50
1.2500	1 1/4	1	1 1/2	8	1 1/4	6	349040	361.95	1.1901 - 1.2550	490.50	426.10	404.55	394.25	383.35	374.50
1.3125	1 5/16	1	1 1/2	8	1 1/4	6	349042	388.15	1.2551 - 1.3155	516.65	452.25	430.60	420.35	409.35	400.75
1.3750	1 3/8	1	1 1/2	8	1 1/4	6	349044	388.15	1.3156 - 1.3800	516.65	452.25	430.60	420.35	409.35	400.75
1.4375	1 7/16	1	1 1/2	8	1 1/4	6	349046	414.15	1.3801 - 1.4405	542.75	478.25	456.60	446.50	435.55	426.75
1.5000	1 1/2	1	1 1/2	8	1 1/4	6	349048	414.15	1.4406 - 1.5050	542.75	478.25	456.60	446.50	435.55	426.75
1.5625	1 9/16	1	1 1/2	10	1 1/4	6	349050	434.30	1.5051 - 1.5660	562.85	498.45	476.95	466.70	455.65	447.00
1.6250	1 5/8	1	1 1/2	10	1 1/4	6	349052	434.30	1.5661 - 1.6300	562.85	498.45	476.95	466.70	455.65	447.00
1.6875	1 11/16	1	1 1/2	10	1 1/4	6	349054	460.50	1.6301 - 1.6910	589.00	524.60	503.10	492.85	481.80	473.10
1.7500	1 3/4	1	1 1/2	10	1 1/4	6	349056	460.50	1.6911 - 1.7550	589.00	524.60	503.10	492.85	481.80	473.10
1.8125	1 13/16	1	1 1/2	10	1 1/4	6	349058	483.60	1.7551 - 1.8160	612.20	547.70	526.20	515.95	505.00	496.15
1.8750	1 7/8	1	1 1/2	10	1 1/4	6	349060	483.60	1.8161 - 1.8800	612.20	547.70	526.20	515.95	505.00	496.15
1.9375	1 15/16	1	1 1/2	10	1 1/4	6	349062	506.90	1.8801 - 1.9410	635.10	570.80	549.30	539.10	527.90	519.45
2.0000	2	1	1 1/2	10	1 1/4	6	349064	506.90	1.9411 - 2.0150	635.10	570.80	549.30	539.10	527.90	519.45

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*Quantities of 15 or more: price of fractional size in same size range.

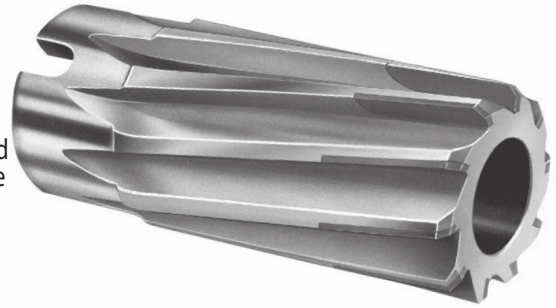
Made in U.S.A.

CARBIDE TIPPED LEFT SPIRAL SHELL REAMERS

TYPE 3441 - LEFT SPIRAL FLUTES

Carbide tips brazed to one piece hardened alloy steel bodies.

Similar to type 3431 on page 117 except with left spiral flutes for use on thru holes only. Left spiral flutes should only be used on through holes and very hard materials. Finishes are much better as spiral flutes tend to bridge interruptions such as keyways, slots or intersecting holes.



Arbor hole tapered 1/8" per foot with drive slots.
Tool diameter tolerance thru 1": +.0001"/+.0005".
over 1": +.0002"/+.0006".

TOOL DIAMETER		HOLE DIAM. LG. END	FITS ARBOR NO.	NO. OF FLTS.	LENGTH			EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL				FLT	CARB	OAL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.7500	3/4	3/8	4	6	1 3/4	1	2 1/4	344124	\$372.35	.7221 - .7530	\$490.95	\$431.60	\$411.65	\$402.25	\$392.05	\$384.05
.7812	25/32	3/8	4	6	1 3/4	1	2 1/4	344125	379.60	.7531 - .7840	498.15	438.85	418.80	409.35	399.25	391.30
.8125	13/16	1/2	5	6	1 15/16	1	2 1/2	344126	379.60	.7841 - .8160	498.15	438.85	418.80	409.35	399.25	391.30
.8750	7/8	1/2	5	6	1 15/16	1	2 1/2	344128	424.40	.8161 - .8780	547.40	485.90	465.10	455.25	444.70	436.35
.9375	15/16	1/2	5	8	1 15/16	1	2 1/2	344130	424.40	.8781 - .9410	547.40	485.90	465.10	455.25	444.70	436.35
1.0000	1	1/2	5	8	1 15/16	1	2 1/2	344132	431.90	.9411 - 1.0030	555.00	493.30	472.65	462.90	452.25	443.90
1.0625	1 1/16	5/8	6	8	2 1/8	1	2 3/4	344134	445.45	1.0031 - 1.0660	568.45	506.90	486.10	476.35	465.70	457.45
1.1250	1 1/8	5/8	6	8	2 1/8	1	2 3/4	344136	454.65	1.0661 - 1.1280	577.75	516.05	495.50	485.65	475.05	466.70
1.1875	1 3/16	5/8	6	8	2 1/8	1 1/8	2 3/4	344138	462.20	1.1281 - 1.1905	585.45	523.55	502.90	493.20	482.65	474.15
1.2500	1 1/4	5/8	6	8	2 1/8	1 1/8	2 3/4	344140	492.45	1.1906 - 1.2530	615.55	553.90	533.20	523.40	512.95	504.50
1.3125	1 5/16	3/4	7	8	2 1/4	1 1/8	3	344142	500.15	1.2531 - 1.3155	623.25	561.40	540.90	531.00	520.50	512.10
1.3750	1 3/8	3/4	7	8	2 1/4	1 1/8	3	344144	515.20	1.3156 - 1.3780	638.35	576.70	556.05	546.20	535.55	527.30
1.4375	1 7/16	3/4	7	8	2 1/4	1 1/8	3	344146	530.40	1.3781 - 1.4405	653.50	591.80	571.25	561.25	550.75	542.20
1.5000	1 1/2	3/4	7	8	2 1/4	1 1/8	3	344148	553.10	1.4406 - 1.5030	676.25	614.50	593.90	584.15	573.45	565.25
1.5625	1 5/8	3/4	7	10	2 1/4	1 1/8	3	344150	640.40	1.5031 - 1.5660	768.95	704.60	682.95	672.75	661.90	652.95
1.6250	1 5/8	3/4	7	10	2 1/4	1 1/8	3	344152	671.95	1.5661 - 1.6280	800.45	736.20	714.50	704.20	693.25	684.40
1.6875	1 11/16	1	8	10	2 3/4	1 1/8	3 1/2	344154	727.10	1.6281 - 1.6910	855.80	791.40	769.75	759.70	748.60	739.90
1.7500	1 3/4	1	8	10	2 3/4	1 1/8	3 1/2	344156	727.10	1.6911 - 1.7530	855.80	791.40	769.75	759.70	748.60	739.90
1.8125	1 13/16	1	8	10	2 3/4	1 1/8	3 1/2	344158	782.15	1.7531 - 1.8160	910.55	846.10	824.55	814.45	803.40	794.65
1.8750	1 7/8	1	8	10	2 3/4	1 1/8	3 1/2	344160	782.15	1.8161 - 1.8780	910.55	846.10	824.55	814.45	803.40	794.65
1.9375	1 15/16	1	8	10	2 3/4	1 1/8	3 1/2	344162	838.10	1.8781 - 1.9410	966.55	902.05	880.65	870.30	859.25	850.60
2.0000	2	1	8	10	2 3/4	1 1/8	3 1/2	344164	838.10	1.9411 - 2.0030	966.55	902.05	880.65	870.30	859.25	850.60
2.0625	2 1/16	1 1/4	9	12	2 7/8	1 1/8	3 3/4	344166	901.15	2.0031 - 2.0660	1029.65	965.35	943.65	933.45	922.60	913.85
2.1250	2 1/8	1 1/4	9	12	2 7/8	1 1/8	3 3/4	344168	901.15	2.0661 - 2.1280	1029.65	965.35	943.65	933.45	922.60	913.85
2.1875	2 3/16	1 1/4	9	12	2 7/8	1 1/8	3 3/4	344170	980.40	2.1281 - 2.1905	1108.65	1044.25	1022.80	1012.60	1001.45	992.85
2.2500	2 1/4	1 1/4	9	12	2 7/8	1 1/8	3 3/4	344172	980.40	2.1906 - 2.2530	1108.65	1044.25	1022.80	1012.60	1001.45	992.85
2.3125	2 5/16	1 1/4	9	12	2 7/8	1 1/8	3 3/4	344174	1035.70	2.2531 - 2.3155	1164.25	1099.85	1078.30	1068.10	1056.95	1048.35
2.3750	2 3/8	1 1/4	9	12	2 7/8	1 1/8	3 3/4	344176	1035.70	2.3156 - 2.3780	1164.25	1099.85	1078.30	1068.10	1056.95	1048.35
2.4375	2 7/16	1 1/4	9	12	2 7/8	1 1/8	3 3/4	344178	1091.00	2.3781 - 2.4405	1219.45	1155.10	1133.60	1123.20	1112.25	1103.45
2.5000	2 1/2	1 1/4	9	12	2 7/8	1 1/8	3 3/4	344180	1091.00	2.4406 - 2.5030	1219.45	1155.10	1133.60	1123.20	1112.25	1103.45
2.5625	2 5/8	1 1/2	10	14	3 1/8	1 1/8	4	344182	1197.65	2.5031 - 2.5660	1326.10	1261.75	1240.15	1230.10	1218.95	1210.30
2.6250	2 5/8	1 1/2	10	14	3 1/8	1 1/8	4	344184	1242.05	2.5661 - 2.6280	1370.65	1306.20	1284.75	1274.45	1263.50	1254.75

*Quantities of 15 or more: price of fractional size in same size range.

SHELL REAMER ARBORS

TYPE 3481 - SHELL REAMER ARBORS

Hardened and ground steel bodies.

Shell reamer arbors for types 3441 and 3431.

ARBOR NO.	FITS REAMER TOOL DIAM.	OAL	STRAIGHT SHANK			TAPER SHANK		
			SHANK DIAM.	TYPE 3481 EDP NO.	PRICE EACH	TAPER SHANK NO.	TYPE 3481 EDP NO.	PRICE EACH
4	.7221 - .7840	9	1/2	348104	\$181.90	2	348114	\$216.90
5	.7841 - 1.0030	9 1/2	5/8	348105	202.90	2	348115	258.95
6	1.0031 - 1.2530	10	3/4	348106	224.00	3	348116	279.85
7	1.2531 - 1.6280	11	7/8	348107	244.95	3	348117	308.00
8	1.6281 - 2.0030	12	1 1/8	348108	272.90	4	348118	343.00
9	2.0031 - 2.5030	13	1 3/8	348109	328.85	4	348119	384.95
10	2.5031 - 3.0030	14	1 5/8	348110	427.65	5	348120	488.30



STRAIGHT SHANK



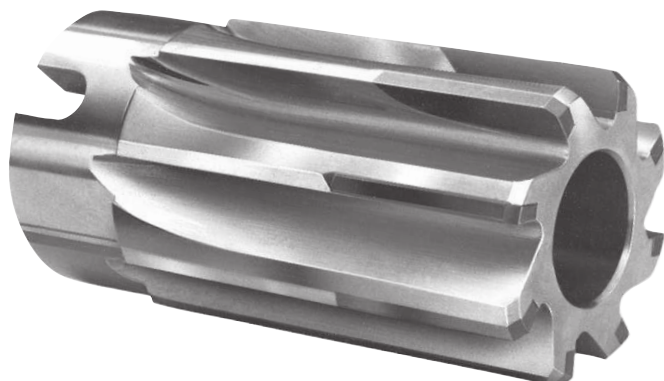
TAPER SHANK

CARBIDE TIPPED SHELL REAMERS

TYPE 3431 - STRAIGHT FLUTES

Carbide tips brazed to one piece hardened alloy steel bodies. Straight polished flutes.

Shell reamers are used with an arbor which is tapered to fit the hole in the reamer. Drive slot in the reamer engage lugs on the arbor to supplement the rotational drive from the tapered arbor. The space between the reamer's drive end and the arbor collar permits easy removal of the shell reamer by prying. For shell reamer arbors (straight or taper shank), see page 116.



Arbor hole tapered $\frac{1}{8}$ " per foot with drive slots.
Tool diameter tolerance thru 1": +.0001"/+.0005".
over 1": +.0002"/+.0006".

TOOL DIAMETER		HOLE DIAM. LG. END	FITS ARBOR NO.	NO. OF FLTS.	LENGTH			EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL				FLT	CARB	OAL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.7500	$\frac{3}{4}$	$\frac{3}{8}$	4	6	1 $\frac{3}{4}$	1	2 $\frac{1}{4}$	343124	\$286.45	.7221 - .7530	\$405.20	\$345.80	\$325.85	\$316.30	\$306.20	\$298.25
.7812	$\frac{25}{32}$	$\frac{3}{8}$	4	6	1 $\frac{3}{4}$	1	2 $\frac{1}{4}$	343125	292.05	.7531 - .7840	410.75	351.15	331.50	321.90	311.75	303.85
.8125	$\frac{13}{16}$	$\frac{1}{2}$	5	6	1 $\frac{15}{16}$	1	2 $\frac{1}{2}$	343126	292.05	.7841 - .8160	410.75	351.15	331.50	321.90	311.75	303.85
.8750	$\frac{7}{8}$	$\frac{1}{2}$	5	6	1 $\frac{15}{16}$	1	2 $\frac{1}{2}$	343128	326.45	.8161 - .8780	449.60	387.85	367.05	357.45	346.80	338.40
.9375	$\frac{15}{16}$	$\frac{1}{2}$	5	8	1 $\frac{15}{16}$	1	2 $\frac{1}{2}$	343130	326.45	.8781 - .9410	449.60	387.85	367.05	357.45	346.80	338.40
1.0000	1	$\frac{1}{2}$	5	8	1 $\frac{15}{16}$	1	2 $\frac{1}{2}$	343132	332.25	.9411 - 1.0030	455.50	393.70	373.15	363.35	352.65	344.35
1.0625	1 $\frac{1}{16}$	$\frac{5}{8}$	6	8	2 $\frac{1}{8}$	1	2 $\frac{3}{4}$	343134	344.00	1.0031 - 1.0660	467.05	405.35	384.50	374.80	364.30	355.85
1.1250	1 $\frac{1}{8}$	$\frac{5}{8}$	6	8	2 $\frac{1}{8}$	1	2 $\frac{3}{4}$	343136	349.65	1.0661 - 1.1280	472.80	411.20	390.40	380.70	370.05	361.80
1.1875	1 $\frac{3}{16}$	$\frac{5}{8}$	6	8	2 $\frac{1}{8}$	1 $\frac{1}{8}$	2 $\frac{3}{4}$	343138	355.60	1.1281 - 1.1905	478.55	417.10	396.35	386.60	375.90	367.70
1.2500	1 $\frac{1}{4}$	$\frac{5}{8}$	6	8	2 $\frac{1}{8}$	1 $\frac{1}{8}$	2 $\frac{3}{4}$	343140	378.90	1.1906 - 1.2530	502.00	440.30	419.75	409.75	399.30	390.95
1.3125	1 $\frac{5}{16}$	$\frac{3}{4}$	7	8	2 $\frac{1}{4}$	1 $\frac{1}{8}$	3	343142	384.50	1.2531 - 1.3155	507.75	446.10	425.50	415.65	405.20	396.75
1.3750	1 $\frac{3}{8}$	$\frac{3}{4}$	7	8	2 $\frac{1}{4}$	1 $\frac{1}{8}$	3	343144	396.30	1.3156 - 1.3780	519.45	457.70	437.10	427.15	416.65	408.40
1.4375	1 $\frac{7}{16}$	$\frac{3}{4}$	7	8	2 $\frac{1}{4}$	1 $\frac{1}{8}$	3	343146	407.95	1.3781 - 1.4405	531.00	469.40	448.85	439.00	428.20	420.10
1.5000	1 $\frac{1}{2}$	$\frac{3}{4}$	7	8	2 $\frac{1}{4}$	1 $\frac{1}{8}$	3	343148	425.50	1.4406 - 1.5030	548.65	486.95	466.25	456.40	445.80	437.55
1.5625	1 $\frac{9}{16}$	$\frac{3}{4}$	7	10	2 $\frac{1}{4}$	1 $\frac{1}{8}$	3	343150	492.60	1.5031 - 1.5660	621.05	556.80	535.15	524.80	513.80	505.15
1.6250	1 $\frac{5}{8}$	$\frac{3}{4}$	7	10	2 $\frac{1}{4}$	1 $\frac{1}{8}$	3	343152	516.80	1.5661 - 1.6280	645.45	581.05	559.45	549.15	538.20	529.50
1.6875	1 $\frac{11}{16}$	1	8	10	2 $\frac{3}{4}$	1 $\frac{1}{8}$	3 $\frac{1}{2}$	343154	559.50	1.6281 - 1.6910	688.20	623.70	602.15	591.85	580.90	572.20
1.7500	1 $\frac{3}{4}$	1	8	10	2 $\frac{3}{4}$	1 $\frac{1}{8}$	3 $\frac{1}{2}$	343156	559.50	1.6911 - 1.7530	688.20	623.70	602.15	591.85	580.90	572.20
1.8125	1 $\frac{13}{16}$	1	8	10	2 $\frac{3}{4}$	1 $\frac{1}{8}$	3 $\frac{1}{2}$	343158	602.00	1.7531 - 1.8160	730.35	666.10	644.55	634.35	623.25	614.55
1.8750	1 $\frac{7}{8}$	1	8	10	2 $\frac{3}{4}$	1 $\frac{1}{8}$	3 $\frac{1}{2}$	343160	602.00	1.8161 - 1.8780	730.35	666.10	644.55	634.35	623.25	614.55
1.9375	1 $\frac{15}{16}$	1	8	10	2 $\frac{3}{4}$	1 $\frac{1}{8}$	3 $\frac{1}{2}$	343162	644.70	1.8781 - 1.9410	773.00	708.65	687.20	677.05	665.95	657.25
2.0000	2	1	8	10	2 $\frac{3}{4}$	1 $\frac{1}{8}$	3 $\frac{1}{2}$	343164	644.70	1.9411 - 2.0030	773.00	708.65	687.20	677.05	665.95	657.25
2.0625	2 $\frac{1}{16}$	1 $\frac{1}{4}$	9	12	2 $\frac{7}{8}$	1 $\frac{1}{8}$	3 $\frac{3}{4}$	343166	693.25	2.0031 - 2.0660	821.70	757.45	735.75	725.60	714.50	705.95
2.1250	2 $\frac{1}{8}$	1 $\frac{1}{4}$	9	12	2 $\frac{7}{8}$	1 $\frac{1}{8}$	3 $\frac{3}{4}$	343168	693.25	2.0661 - 2.1280	821.70	757.45	735.75	725.60	714.50	705.95
2.1875	2 $\frac{3}{16}$	1 $\frac{1}{4}$	9	12	2 $\frac{7}{8}$	1 $\frac{1}{8}$	3 $\frac{3}{4}$	343170	754.05	2.1281 - 2.1905	882.55	818.15	796.60	786.30	775.45	766.60
2.2500	2 $\frac{1}{4}$	1 $\frac{1}{4}$	9	12	2 $\frac{7}{8}$	1 $\frac{1}{8}$	3 $\frac{3}{4}$	343172	754.05	2.1906 - 2.2530	882.55	818.15	796.60	786.30	775.45	766.60
2.3125	2 $\frac{5}{16}$	1 $\frac{1}{4}$	9	12	2 $\frac{7}{8}$	1 $\frac{1}{8}$	3 $\frac{3}{4}$	343174	796.60	2.2531 - 2.3155	925.20	860.70	839.25	828.90	817.90	809.20
2.3750	2 $\frac{3}{8}$	1 $\frac{1}{4}$	9	12	2 $\frac{7}{8}$	1 $\frac{1}{8}$	3 $\frac{3}{4}$	343176	796.60	2.3156 - 2.3780	925.20	860.70	839.25	828.90	817.90	809.20
2.4375	2 $\frac{7}{16}$	1 $\frac{1}{4}$	9	12	2 $\frac{7}{8}$	1 $\frac{1}{8}$	3 $\frac{3}{4}$	343178	839.30	2.3781 - 2.4405	967.85	903.40	881.85	871.60	860.55	851.85
2.5000	2 $\frac{1}{2}$	1 $\frac{1}{4}$	9	12	2 $\frac{7}{8}$	1 $\frac{1}{8}$	3 $\frac{3}{4}$	343180	839.30	2.4406 - 2.5030	967.85	903.40	881.85	871.60	860.55	851.85
2.5625	2 $\frac{9}{16}$	1 $\frac{1}{2}$	10	14	3 $\frac{1}{8}$	1 $\frac{1}{8}$	4	343182	921.25	2.5031 - 2.5660	1049.70	985.35	963.80	953.55	942.60	933.90
2.6250	2 $\frac{5}{8}$	1 $\frac{1}{2}$	10	14	3 $\frac{1}{8}$	1 $\frac{1}{8}$	4	343184	955.45	2.5661 - 2.6280	1083.90	1019.40	998.05	987.65	976.70	968.00
2.6875	2 $\frac{11}{16}$	1 $\frac{1}{2}$	10	14	3 $\frac{1}{8}$	1 $\frac{1}{8}$	4	343186	992.55	2.6281 - 2.6910	1121.00	1056.75	1035.10	1024.90	1013.80	1005.10
2.7500	2 $\frac{3}{4}$	1 $\frac{1}{2}$	10	14	3 $\frac{1}{8}$	1 $\frac{1}{8}$	4	343188	1027.05	2.6911 - 2.7530	1155.55	1091.05	1069.50	1059.40	1048.35	1039.60
2.8125	2 $\frac{13}{16}$	1 $\frac{1}{2}$	10	14	3 $\frac{1}{8}$	1 $\frac{1}{8}$	4	343190	1063.10	2.7531 - 2.8160	1191.55	1127.25	1105.75	1095.45	1084.40	1075.85
2.8750	2 $\frac{7}{8}$	1 $\frac{1}{2}$	10	14	3 $\frac{1}{8}$	1 $\frac{1}{8}$	4	343192	1105.75	2.8161 - 2.8780	1234.00	1169.90	1148.20	1138.10	1126.95	1118.35
2.9375	2 $\frac{15}{16}$	1 $\frac{1}{2}$	10	14	3 $\frac{1}{8}$	1 $\frac{1}{8}$	4	343194	1148.45	2.8781 - 2.9410	1276.90	1212.45	1190.95	1180.80	1169.75	1161.00
3.0000	3	1 $\frac{1}{2}$	10	14	3 $\frac{1}{8}$	1 $\frac{1}{8}$	4	343196	1191.10	2.9411 - 3.0030	1319.45	1255.20	1233.65	1223.50	1212.40	1203.70

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*Quantities of 15 or more: price of fractional size in same size range.

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CARBIDE TIPPED VARIABLE LENGTH REAMERS

TYPE 3457EL - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR NON-FERROUS
TYPE 3458EL - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR CAST IRON
TYPE 3459EL - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR STEEL

Same as types 3457, 3458, and 3459 on page 94 except with variable overall lengths.
 When ordering, specify desired length within overall length range.
 Eliminates need to special order reamers, saving time and money. These reamers have a controlled shank.



For reamer tolerances and closer tolerance pricing, see page 60.

DECIMAL SIZE RANGE	SHANK DIAMETER	NO. OF FLUTES	FLUTE LENGTH	NON-FERR. TYPE 3457EL EDP NO.	CAST IRON TYPE 3458EL EDP NO.	STEEL TYPE 3459EL EDP NO.	OVERALL LENGTH RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
								1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14
.1121 - .1280 *	.1099	4	1 1/2	345704EL	345804EL	345904EL	2 9/32 - 6	\$415.90	\$364.25	\$346.85	\$338.70	\$329.90	\$322.80
.1281 - .1435 *	.1255	4	1 1/2	3457045EL	3458045EL	3459045EL	2 17/32 - 6 1/2	417.30	365.75	348.45	340.05	331.20	324.30
.1436 - .1590 *	.1411	4	1 1/2	345705EL	345805EL	345905EL	2 17/32 - 7	424.25	372.55	355.25	346.95	338.15	331.15
.1591 - .1750 *	.1567	4	1 1/2	3457055EL	3458055EL	3459055EL	2 25/32 - 8	432.30	380.50	363.35	355.00	346.15	339.20
.1751 - .1910 *	.1724	4	1 1/2	345706EL	345806EL	345906EL	4 17/32 - 9	443.70	392.05	374.65	366.60	357.60	350.65
.1911 - .2210 *	.1880	4	1 1/2	345707EL	345807EL	345907EL	5 1/32 - 10	458.60	407.10	389.80	381.55	372.65	365.75
.2211 - .2530 *	.2193	4	1 1/2	345708EL	345808EL	345908EL	6 1/32 - 12	488.30	436.60	419.45	411.20	402.35	395.40
.2531 - .2840 *	.2505	4	1 1/2	345709EL	345809EL	345909EL	6 1/32 - 12	513.80	462.15	444.90	436.50	427.75	420.65
.2841 - .3150	.2792	4	1 1/2	345710EL	345810EL	345910EL	6 1/32 - 12	364.55	312.90	295.65	287.35	278.50	271.65
.3151 - .3470	.2792	4	1 1/2	345711EL	345811EL	345911EL	6 1/32 - 12	364.55	312.90	295.65	287.35	278.50	271.65
.3471 - .3780	.3105	4	1 3/4	345712EL	345812EL	345912EL	7 1/32 - 14	376.50	324.95	307.60	299.20	290.45	283.40
.3781 - .4090	.3105	4	1 3/4	345713EL	345813EL	345913EL	7 1/32 - 14	376.50	324.95	307.60	299.20	290.45	283.40
.4091 - .4410	.3730	6	1 3/4	345714EL	345814EL	345914EL	7 1/32 - 14	388.50	336.70	319.55	311.15	302.40	295.35
.4411 - .4720	.3730	6	1 3/4	345715EL	345815EL	345915EL	7 1/32 - 14	388.50	336.70	319.55	311.15	302.40	295.35
.4721 - .5030	.4355	6	2	345716EL	345816EL	345916EL	8 1/32 - 16	396.50	344.75	327.50	319.25	310.50	303.45
.5031 - .5340	.4355	6	2	345717EL	345817EL	345917EL	8 1/32 - 16	396.50	344.75	327.50	319.25	310.50	303.45
.5341 - .5660	.4355	6	2	345718EL	345818EL	345918EL	8 1/32 - 16	403.95	352.15	334.90	326.65	317.80	310.85
.5661 - .5970	.4355	6	2	345719EL	345819EL	345919EL	8 1/32 - 16	403.95	352.15	334.90	326.65	317.80	310.85
.5971 - .6280	.5615	6	2 1/4	345720EL	345820EL	345920EL	9 1/32 - 18	412.40	360.70	343.40	335.20	326.45	319.40
.6281 - .6590	.5615	6	2 1/4	345721EL	345821EL	345921EL	9 1/32 - 18	412.40	360.70	343.40	335.20	326.45	319.40
.6591 - .6910	.5615	6	2 1/4	345722EL	345822EL	345922EL	9 1/32 - 18	413.60	361.90	344.50	336.35	327.50	320.55
.6911 - .7220	.5615	6	2 1/4	345723EL	345823EL	345923EL	9 1/32 - 18	413.60	361.90	344.50	336.35	327.50	320.55
.7221 - .7530	.6245	6	2 1/2	345724EL	345824EL	345924EL	9 17/32 - 18	443.90	392.20	374.80	366.75	357.95	350.95
.7531 - .7840	.6245	6	2 1/2	345725EL	345825EL	345925EL	9 17/32 - 18	538.75	489.50	472.95	465.25	456.80	450.20
.7841 - .8160	.6245	6	2 1/2	345726EL	345826EL	345926EL	9 17/32 - 18	555.90	506.60	490.10	482.40	473.95	467.30
.8161 - .8470	.6245	6	2 1/2	345727EL	345827EL	345927EL	9 17/32 - 18	562.30	513.10	496.55	488.75	480.35	473.80
.8471 - .8780	.7495	6	2 5/8	345728EL	345828EL	345928EL	10 1/32 - 18	574.25	524.90	508.40	500.70	492.25	485.50
.8781 - .9090	.7495	6	2 5/8	345729EL	345829EL	345929EL	10 1/32 - 18	598.35	549.10	532.60	524.80	516.40	509.75
.9091 - .9410	.7495	8	2 5/8	345730EL	345830EL	345930EL	10 1/32 - 18	604.40	555.05	538.55	530.80	522.30	515.80
.9411 - .9720	.7495	8	2 5/8	345731EL	345831EL	345931EL	10 1/32 - 18	610.10	560.90	544.40	536.60	528.15	521.50
.9721 - 1.0030	.8745	8	2 3/4	345732EL	345832EL	345932EL	10 17/32 - 18	624.30	575.10	558.60	550.80	542.30	535.70

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CARBIDE TIPPED VARIABLE LENGTH COOLANT REAMERS

TYPE 3416EL - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE - THROUGH HOLES - FOR NON-FERROUS

TYPE 3426EL - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE - THROUGH HOLES - FOR CAST IRON

TYPE 3435EL - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE - THROUGH HOLES - FOR STEEL

Same as types 3416, 3426, and 3435 on page 108 except with variable overall lengths.
When ordering, specify desired length within overall length range.
Eliminates need to special order reamers, saving time and money.
These reamers have a controlled shank and coolant through the flutes.



For reamer tolerances and closer tolerance pricing, see page 60.

DECIMAL SIZE RANGE	SHANK DIAMETER	NO. OF FLUTES	FLUTE LENGTH	NON-FERR. TYPE 3416EL EDP NO.	CAST IRON TYPE 3426EL EDP NO.	STEEL TYPE 3435EL EDP NO.	OVERALL LENGTH RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
								1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14
.1751 - .1910 *	.1724	4	1 ½	341606EL	342606EL	343506EL	4 17/32 - 9	\$530.85	\$479.25	\$461.85	\$453.70	\$444.90	\$437.80
.1911 - .2210 *	.1880	4	1 ½	341607EL	342607EL	343507EL	5 ½ - 10	551.35	499.55	482.25	474.10	465.30	458.30
.2211 - .2530 *	.2193	4	1 ½	341608EL	342608EL	343508EL	6 ½ - 12	612.50	560.90	543.50	535.30	526.35	519.45
.2531 - .2840 *	.2505	4	1 ½	341609EL	342609EL	343509EL	6 ½ - 12	642.20	590.50	573.20	564.95	556.05	549.10
.2841 - .3150	.2792	4	1 ½	341610EL	342610EL	343510EL	6 ½ - 12	474.90	423.30	405.90	397.65	388.75	381.85
.3151 - .3470	.2792	4	1 ½	341611EL	342611EL	343511EL	6 ½ - 12	474.90	423.30	405.90	397.65	388.75	381.85
.3471 - .3780	.3105	4	1 ¾	341612EL	342612EL	343512EL	7 ½ - 14	484.20	432.50	415.35	407.10	398.20	391.30
.3781 - .4090	.3105	4	1 ¾	341613EL	342613EL	343513EL	7 ½ - 14	484.20	432.50	415.35	407.10	398.20	391.30
.4091 - .4410	.3730	6	1 ¾	341614EL	342614EL	343514EL	7 ½ - 14	486.25	434.55	417.25	409.05	400.15	393.25
.4411 - .4720	.3730	6	1 ¾	341615EL	342615EL	343515EL	7 ½ - 14	486.25	434.55	417.25	409.05	400.15	393.25
.4721 - .5030	.4355	6	2	341616EL	342616EL	343516EL	8 ½ - 16	528.95	477.25	460.05	451.70	442.85	435.90
.5031 - .5340	.4355	6	2	341617EL	342617EL	343517EL	8 ½ - 16	528.95	477.25	460.05	451.70	442.85	435.90
.5341 - .5660	.4355	6	2	341618EL	342618EL	343518EL	8 ½ - 16	532.70	481.05	463.75	455.50	446.65	439.55
.5661 - .5970	.4355	6	2	341619EL	342619EL	343519EL	8 ½ - 16	532.70	481.05	463.75	455.50	446.65	439.55
.5971 - .6280	.5615	6	2 ¼	341620EL	342620EL	343520EL	9 ½ - 18	543.20	491.55	474.15	466.00	457.15	450.20
.6281 - .6590	.5615	6	2 ¼	341621EL	342621EL	343521EL	9 ½ - 18	543.20	491.55	474.15	466.00	457.15	450.20
.6591 - .6910	.5615	6	2 ¼	341622EL	342622EL	343522EL	9 ½ - 18	549.10	497.45	480.15	471.90	462.95	456.00
.6911 - .7220	.5615	6	2 ¼	341623EL	342623EL	343523EL	9 ½ - 18	549.10	497.45	480.15	471.90	462.95	456.00
.7221 - .7530	.6245	6	2 ½	341624EL	342624EL	343524EL	9 17/32 - 18	571.70	520.00	502.75	494.35	485.50	478.55
.7531 - .7840	.6245	6	2 ½	341625EL	342625EL	343525EL	9 17/32 - 18	651.60	602.30	585.80	577.95	569.65	562.90
.7841 - .8160	.6245	6	2 ½	341626EL	342626EL	343526EL	9 17/32 - 18	674.95	625.75	609.25	601.40	592.95	586.35
.8161 - .8470	.6245	6	2 ½	341627EL	342627EL	343527EL	9 17/32 - 18	681.25	632.00	615.55	607.65	599.20	592.55
.8471 - .8780	.7495	6	2 ¾	341628EL	342628EL	343528EL	10 ½ - 18	685.45	636.25	619.75	611.90	603.50	596.85
.8781 - .9090	.7495	6	2 ¾	341629EL	342629EL	343529EL	10 ½ - 18	712.10	662.95	646.40	638.50	630.15	623.55
.9091 - .9410	.7495	8	2 ¾	341630EL	342630EL	343530EL	10 ½ - 18	724.30	675.10	658.65	650.75	642.35	635.70
.9411 - .9720	.7495	8	2 ¾	341631EL	342631EL	343531EL	10 ½ - 18	728.35	679.10	662.65	654.75	646.30	639.65
.9721 - 1.0030	.8745	8	2 ¾	341632EL	342632EL	343532EL	10 17/32 - 18	749.20	700.00	683.65	675.70	667.25	660.60

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CARBIDE TIPPED VARIABLE LENGTH REAMERS

TYPE 3442EL - STRAIGHT SHANK - RIGHT SPIRAL FLUTE LONG CARBIDE - FOR NON-FERROUS
TYPE 3443EL - STRAIGHT SHANK - RIGHT SPIRAL FLUTE LONG CARBIDE - FOR CAST IRON
TYPE 3444EL - STRAIGHT SHANK - RIGHT SPIRAL FLUTE LONG CARBIDE - FOR STEEL

Same as types 3442, 3443, and 3444 on page 98 except with variable overall lengths.
 When ordering, specify desired length within overall length range.
 Eliminates need to special order reamers, saving time and money.
 These reamers have a controlled shank.



For reamer tolerances and closer tolerance pricing, see page 60.

DECIMAL SIZE RANGE	SHANK DIAMETER	NO. OF FLUTES	FLUTE LENGTH	NON-FERR. TYPE 3442EL EDP NO.	CAST IRON TYPE 3443EL EDP NO.	STEEL TYPE 3444EL EDP NO.	OVERALL LENGTH RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
								1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14
.2211 - .2530 *	.2193	4	1 1/2	344208EL	344308EL	344408EL	6 1/32 - 12	\$585.90	\$524.00	\$503.25	\$493.45	\$482.85	\$474.30
.2531 - .2840 *	.2505	4	1 1/2	344209EL	344309EL	344409EL	6 1/32 - 12	616.60	554.45	533.80	523.90	513.25	505.00
.2841 - .3150	.2792	4	1 1/2	344210EL	344310EL	344410EL	6 1/32 - 12	437.55	375.60	354.85	344.90	334.30	325.90
.3151 - .3470	.2792	4	1 1/2	344211EL	344311EL	344411EL	6 1/32 - 12	437.55	375.60	354.85	344.90	334.30	325.90
.3471 - .3780	.3105	4	1 3/4	344212EL	344312EL	344412EL	7 1/32 - 14	451.85	389.85	369.10	359.10	348.60	340.20
.3781 - .4090	.3105	4	1 3/4	344213EL	344313EL	344413EL	7 1/32 - 14	451.85	389.85	369.10	359.10	348.60	340.20
.4091 - .4410	.3730	6	1 3/4	344214EL	344314EL	344414EL	7 1/32 - 14	466.15	404.25	383.45	373.45	362.80	354.50
.4411 - .4720	.3730	6	1 3/4	344215EL	344315EL	344415EL	7 1/32 - 14	466.15	404.25	383.45	373.45	362.80	354.50
.4721 - .5030	.4355	6	2	344216EL	344316EL	344416EL	8 1/32 - 16	475.85	413.75	393.10	383.15	372.55	364.15
.5031 - .5340	.4355	6	2	344217EL	344317EL	344417EL	8 1/32 - 16	475.85	413.75	393.10	383.15	372.55	364.15
.5341 - .5660	.4355	6	2	344218EL	344318EL	344418EL	8 1/32 - 16	484.75	422.60	401.90	392.00	381.40	372.95
.5661 - .5970	.4355	6	2	344219EL	344319EL	344419EL	8 1/32 - 16	484.75	422.60	401.90	392.00	381.40	372.95
.5971 - .6280	.5615	6	2 1/4	344220EL	344320EL	344420EL	9 1/32 - 18	494.95	432.90	412.10	402.35	391.60	383.35
.6281 - .6590	.5615	6	2 1/4	344221EL	344321EL	344421EL	9 1/32 - 18	494.95	432.90	412.10	402.35	391.60	383.35
.6591 - .6910	.5615	6	2 1/4	344222EL	344322EL	344422EL	9 1/32 - 18	496.15	434.25	413.55	403.70	393.10	384.65
.6911 - .7220	.5615	6	2 1/4	344223EL	344323EL	344423EL	9 1/32 - 18	496.15	434.25	413.55	403.70	393.10	384.65
.7221 - .7530	.6245	6	2 1/2	344224EL	344324EL	344424EL	9 17/32 - 18	532.75	470.75	449.95	440.05	429.50	421.15
.7531 - .7840	.6245	6	2 1/2	344225EL	344325EL	344425EL	9 17/32 - 18	614.15	555.05	535.25	526.00	515.90	507.90
.7841 - .8160	.6245	6	2 1/2	344226EL	344326EL	344426EL	9 17/32 - 18	631.80	572.80	553.00	543.65	533.50	525.55
.8161 - .8470	.6245	6	2 1/2	344227EL	344327EL	344427EL	9 17/32 - 18	638.15	579.15	559.30	550.00	539.95	531.90
.8471 - .8780	.7495	6	2 5/8	344228EL	344328EL	344428EL	10 1/32 - 18	640.65	581.50	561.85	552.50	542.30	534.35
.8781 - .9090	.7495	6	2 5/8	344229EL	344329EL	344429EL	10 1/32 - 18	662.05	603.05	583.20	573.95	563.75	555.80
.9091 - .9410	.7495	8	2 5/8	344230EL	344330EL	344430EL	10 1/32 - 18	684.25	625.35	605.50	596.10	586.05	578.05
.9411 - .9720	.7495	8	2 5/8	344231EL	344331EL	344431EL	10 1/32 - 18	688.40	629.30	609.50	600.25	590.15	582.20
.9721 - 1.0030	.8745	8	2 3/4	344232EL	344332EL	344432EL	10 17/32 - 18	713.50	654.45	634.65	625.45	615.30	607.20

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CARBIDE TIPPED VARIABLE LENGTH COOLANT REAMERS

TYPE 3411EL - STRAIGHT SHANK - RIGHT SPIRAL FLUTE LONG CARBIDE - BLIND HOLES - FOR NON-FERROUS
TYPE 3413EL - STRAIGHT SHANK - RIGHT SPIRAL FLUTE LONG CARBIDE - BLIND HOLES - FOR CAST IRON
TYPE 3415EL - STRAIGHT SHANK - RIGHT SPIRAL FLUTE LONG CARBIDE - BLIND HOLES - FOR STEEL

Same as types 3411, 3413, and 3415 on page 113 except with variable overall lengths.
 When ordering, specify desired length within overall length range.
 Eliminates need to special order reamers, saving time and money. These reamers have a controlled shank and coolant through the end of the tool.



For reamer tolerances and closer tolerance pricing, see page 60.

DECIMAL SIZE RANGE	SHANK DIAMETER	NO. OF FLUTES	FLUTE LENGTH	NON-FERR. TYPE 3411EL EDP NO.	CAST IRON TYPE 3413EL EDP NO.	STEEL TYPE 3415EL EDP NO.	OVERALL LENGTH RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
								1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14
.2211 - .2530 *	.2193	4	1 1/2	341108EL	341308EL	341508EL	6 1/32 - 12	\$734.90	\$672.90	\$652.35	\$642.35	\$631.65	\$623.40
.2531 - .2840 *	.2505	4	1 1/2	341109EL	341309EL	341509EL	6 1/32 - 12	770.60	708.60	687.75	678.00	667.25	658.95
.2841 - .3150	.2792	4	1 1/2	341110EL	341310EL	341510EL	6 1/32 - 12	569.80	507.75	487.10	477.20	466.40	458.20
.3151 - .3470	.2792	4	1 1/2	341111EL	341311EL	341511EL	6 1/32 - 12	569.80	507.75	487.10	477.20	466.40	458.20
.3471 - .3780	.3105	4	1 3/4	341112EL	341312EL	341512EL	7 1/32 - 14	581.15	519.05	498.20	488.40	477.85	469.50
.3781 - .4090	.3105	4	1 3/4	341113EL	341313EL	341513EL	7 1/32 - 14	581.15	519.05	498.20	488.40	477.85	469.50
.4091 - .4410	.3730	6	1 3/4	341114EL	341314EL	341514EL	7 1/32 - 14	583.50	521.50	500.75	490.85	480.20	471.90
.4411 - .4720	.3730	6	1 3/4	341115EL	341315EL	341515EL	7 1/32 - 14	583.50	521.50	500.75	490.85	480.20	471.90
.4721 - .5030	.4355	6	2	341116EL	341316EL	341516EL	8 1/32 - 16	634.75	572.80	551.90	542.05	531.45	523.15
.5031 - .5340	.4355	6	2	341117EL	341317EL	341517EL	8 1/32 - 16	634.75	572.80	551.90	542.05	531.45	523.15
.5341 - .5660	.4355	6	2	341118EL	341318EL	341518EL	8 1/32 - 16	639.25	577.05	556.50	546.60	535.95	527.55
.5661 - .5970	.4355	6	2	341119EL	341319EL	341519EL	8 1/32 - 16	639.25	577.05	556.50	546.60	535.95	527.55
.5971 - .6280	.5615	6	2 1/4	341120EL	341320EL	341520EL	9 1/32 - 18	651.90	589.85	569.05	559.20	548.65	540.15
.6281 - .6590	.5615	6	2 1/4	341121EL	341321EL	341521EL	9 1/32 - 18	651.90	589.85	569.05	559.20	548.65	540.15
.6591 - .6910	.5615	6	2 1/4	341122EL	341322EL	341522EL	9 1/32 - 18	658.95	596.95	576.20	566.40	555.65	547.35
.6911 - .7220	.5615	6	2 1/4	341123EL	341323EL	341523EL	9 1/32 - 18	658.95	596.95	576.20	566.40	555.65	547.35
.7221 - .7530	.6245	6	2 1/2	341124EL	341324EL	341524EL	9 17/32 - 18	686.00	624.00	603.20	593.45	582.70	574.50
.7531 - .7840	.6245	6	2 1/2	341125EL	341325EL	341525EL	9 17/32 - 18	692.55	633.55	613.80	604.40	594.20	586.35
.7841 - .8160	.6245	6	2 1/2	341126EL	341326EL	341526EL	9 17/32 - 18	715.25	656.15	636.50	627.05	616.90	609.05
.8161 - .8470	.6245	6	2 1/2	341127EL	341327EL	341527EL	9 17/32 - 18	721.70	662.65	642.90	633.45	623.30	615.45
.8471 - .8780	.7495	6	2 5/8	341128EL	341328EL	341528EL	10 1/32 - 18	724.00	665.00	645.30	635.85	625.65	617.80
.8781 - .9090	.7495	6	2 5/8	341129EL	341329EL	341529EL	10 1/32 - 18	749.95	690.85	671.20	661.65	651.60	643.75
.9091 - .9410	.7495	8	2 5/8	341130EL	341330EL	341530EL	10 1/32 - 18	772.85	713.80	694.00	684.65	674.50	666.55
.9411 - .9720	.7495	8	2 5/8	341131EL	341331EL	341531EL	10 1/32 - 18	776.95	717.90	698.15	688.65	678.60	670.70
.9721 - 1.0030	.8745	8	2 3/4	341132EL	341332EL	341532EL	10 17/32 - 18	807.55	748.50	728.70	719.25	709.20	701.35

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CARBIDE TIPPED VARIABLE LENGTH REAMERS

TYPE 3482EL - STRAIGHT SHANK - LEFT SPIRAL FLUTE LONG CARBIDE - FOR NON-FERROUS
TYPE 3483EL - STRAIGHT SHANK - LEFT SPIRAL FLUTE LONG CARBIDE - FOR CAST IRON
TYPE 3484EL - STRAIGHT SHANK - LEFT SPIRAL FLUTE LONG CARBIDE - FOR STEEL

Same as types 3482, 3483, and 3484 on page 99 except with variable overall lengths.
 When ordering, specify desired length within overall length range.
 Eliminates need to special order reamers, saving time and money.
 These reamers have a controlled shank.



For reamer tolerances and closer tolerance pricing, see page 60.

DECIMAL SIZE RANGE	SHANK DIAMETER	NO. OF FLUTES	FLUTE LENGTH	NON-FERR. TYPE 3482EL EDP NO.	CAST IRON TYPE 3483EL EDP NO.	STEEL TYPE 3484EL EDP NO.	OVERALL LENGTH RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
								1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14
.2211 - .2530 *	.2193	4	1 1/2	348208EL	348308EL	348408EL	6 1/32 - 12	\$585.90	\$524.00	\$503.25	\$493.45	\$482.85	\$474.30
.2531 - .2840 *	.2505	4	1 1/2	348209EL	348309EL	348409EL	6 1/32 - 12	616.60	554.45	533.80	523.90	513.25	505.00
.2841 - .3150	.2792	4	1 1/2	348210EL	348310EL	348410EL	6 1/32 - 12	437.55	375.60	354.85	344.90	334.30	325.90
.3151 - .3470	.2792	4	1 1/2	348211EL	348311EL	348411EL	6 1/32 - 12	437.55	375.60	354.85	344.90	334.30	325.90
.3471 - .3780	.3105	4	1 3/4	348212EL	348312EL	348412EL	7 1/32 - 14	451.85	389.85	369.10	359.10	348.60	340.20
.3781 - .4090	.3105	4	1 3/4	348213EL	348313EL	348413EL	7 1/32 - 14	451.85	389.85	369.10	359.10	348.60	340.20
.4091 - .4410	.3730	6	1 3/4	348214EL	348314EL	348414EL	7 1/32 - 14	466.15	404.25	383.45	373.45	362.80	354.50
.4411 - .4720	.3730	6	1 3/4	348215EL	348315EL	348415EL	7 1/32 - 14	466.15	404.25	383.45	373.45	362.80	354.50
.4721 - .5030	.4355	6	2	348216EL	348316EL	348416EL	8 1/32 - 16	475.85	413.75	393.10	383.15	372.55	364.15
.5031 - .5340	.4355	6	2	348217EL	348317EL	348417EL	8 1/32 - 16	475.85	413.75	393.10	383.15	372.55	364.15
.5341 - .5660	.4355	6	2	348218EL	348318EL	348418EL	8 1/32 - 16	484.75	422.60	401.90	392.00	381.40	372.95
.5661 - .5970	.4355	6	2	348219EL	348319EL	348419EL	8 1/32 - 16	484.75	422.60	401.90	392.00	381.40	372.95
.5971 - .6280	.5615	6	2 1/4	348220EL	348320EL	348420EL	9 1/32 - 18	494.95	432.90	412.10	402.35	391.60	383.35
.6281 - .6590	.5615	6	2 1/4	348221EL	348321EL	348421EL	9 1/32 - 18	494.95	432.90	412.10	402.35	391.60	383.35
.6591 - .6910	.5615	6	2 1/4	348222EL	348322EL	348422EL	9 1/32 - 18	496.15	434.25	413.55	403.70	393.10	384.65
.6911 - .7220	.5615	6	2 1/4	348223EL	348323EL	348423EL	9 1/32 - 18	496.15	434.25	413.55	403.70	393.10	384.65
.7221 - .7530	.6245	6	2 1/2	348224EL	348324EL	348424EL	9 17/32 - 18	532.75	470.75	449.95	440.05	429.50	421.15
.7531 - .7840	.6245	6	2 1/2	348225EL	348325EL	348425EL	9 17/32 - 18	614.15	555.05	535.25	526.00	515.90	507.90
.7841 - .8160	.6245	6	2 1/2	348226EL	348326EL	348426EL	9 17/32 - 18	631.80	572.80	553.00	543.65	533.50	525.55
.8161 - .8470	.6245	6	2 1/2	348227EL	348327EL	348427EL	9 17/32 - 18	638.15	579.15	559.30	550.00	539.95	531.90
.8471 - .8780	.7495	6	2 5/8	348228EL	348328EL	348428EL	10 1/32 - 18	640.65	581.50	561.85	552.50	542.30	534.35
.8781 - .9090	.7495	6	2 5/8	348229EL	348329EL	348429EL	10 1/32 - 18	662.05	603.05	583.20	573.95	563.75	555.80
.9091 - .9410	.7495	8	2 5/8	348230EL	348330EL	348430EL	10 1/32 - 18	684.25	625.35	605.50	596.10	586.05	578.05
.9411 - .9720	.7495	8	2 5/8	348231EL	348331EL	348431EL	10 1/32 - 18	688.40	629.30	609.50	600.25	590.15	582.20
.9721 - 1.0030	.8745	8	2 3/4	348232EL	348332EL	348432EL	10 17/32 - 18	713.50	654.45	634.65	625.45	615.30	607.20

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CARBIDE TIPPED VARIABLE LENGTH COOLANT REAMERS

TYPE 3427EL - STRAIGHT SHANK - LEFT SPIRAL FLUTE LONG CARBIDE - THROUGH HOLES - FOR NON-FERROUS

TYPE 3428EL - STRAIGHT SHANK - LEFT SPIRAL FLUTE LONG CARBIDE - THROUGH HOLES - FOR CAST IRON

TYPE 3429EL - STRAIGHT SHANK - LEFT SPIRAL FLUTE LONG CARBIDE - THROUGH HOLES - FOR STEEL

Same as types 3427, 3428, and 3429 on page 114 except with variable overall lengths.

When ordering, specify desired length within overall length range.

Eliminates need to special order reamers, saving time and money.

These reamers have a controlled shank and coolant through the flutes.



For reamer tolerances and closer tolerance pricing, see page 60.

DECIMAL SIZE RANGE	SHANK DIAMETER	NO. OF FLUTES	FLUTE LENGTH	NON-FERR. TYPE 3427EL EDP NO.	CAST IRON TYPE 3428EL EDP NO.	STEEL TYPE 3429EL EDP NO.	OVERALL LENGTH RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
								1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14
.2211 - .2530 *	.2193	4	1 ½	342708EL	342808EL	342908EL	6 ½ ₃₂ - 12	\$734.90	\$672.90	\$652.35	\$642.35	\$631.65	\$623.40
.2531 - .2840 *	.2505	4	1 ½	342709EL	342809EL	342909EL	6 ½ ₃₂ - 12	770.60	708.60	687.75	678.00	667.25	658.95
.2841 - .3150	.2792	4	1 ½	342710EL	342810EL	342910EL	6 ½ ₃₂ - 12	569.80	507.75	487.10	477.20	466.40	458.20
.3151 - .3470	.2792	4	1 ½	342711EL	342811EL	342911EL	6 ½ ₃₂ - 12	569.80	507.75	487.10	477.20	466.40	458.20
.3471 - .3780	.3105	4	1 ¾	342712EL	342812EL	342912EL	7 ½ ₃₂ - 14	581.15	519.05	498.20	488.40	477.85	469.50
.3781 - .4090	.3105	4	1 ¾	342713EL	342813EL	342913EL	7 ½ ₃₂ - 14	581.15	519.05	498.20	488.40	477.85	469.50
.4091 - .4410	.3730	6	1 ¾	342714EL	342814EL	342914EL	7 ½ ₃₂ - 14	583.50	521.50	500.75	490.85	480.20	471.90
.4411 - .4720	.3730	6	1 ¾	342715EL	342815EL	342915EL	7 ½ ₃₂ - 14	583.50	521.50	500.75	490.85	480.20	471.90
.4721 - .5030	.4355	6	2	342716EL	342816EL	342916EL	8 ½ ₃₂ - 16	634.75	572.80	551.90	542.05	531.45	523.15
.5031 - .5340	.4355	6	2	342717EL	342817EL	342917EL	8 ½ ₃₂ - 16	634.75	572.80	551.90	542.05	531.45	523.15
.5341 - .5660	.4355	6	2	342718EL	342818EL	342918EL	8 ½ ₃₂ - 16	639.25	577.05	556.50	546.60	535.95	527.55
.5661 - .5970	.4355	6	2	342719EL	342819EL	342919EL	8 ½ ₃₂ - 16	639.25	577.05	556.50	546.60	535.95	527.55
.5971 - .6280	.5615	6	2 ¼	342720EL	342820EL	342920EL	9 ½ ₃₂ - 18	651.90	589.85	569.05	559.20	548.65	540.15
.6281 - .6590	.5615	6	2 ¼	342721EL	342821EL	342921EL	9 ½ ₃₂ - 18	651.90	589.85	569.05	559.20	548.65	540.15
.6591 - .6910	.5615	6	2 ¼	342722EL	342822EL	342922EL	9 ½ ₃₂ - 18	658.95	596.95	576.20	566.40	555.65	547.35
.6911 - .7220	.5615	6	2 ¼	342723EL	342823EL	342923EL	9 ½ ₃₂ - 18	658.95	596.95	576.20	566.40	555.65	547.35
.7221 - .7530	.6245	6	2 ½	342724EL	342824EL	342924EL	9 ½ ₃₂ - 18	686.00	624.00	603.20	593.45	582.70	574.50
.7531 - .7840	.6245	6	2 ½	342725EL	342825EL	342925EL	9 ½ ₃₂ - 18	724.30	665.20	645.60	636.10	625.90	618.05
.7841 - .8160	.6245	6	2 ½	342726EL	342826EL	342926EL	9 ½ ₃₂ - 18	748.65	689.60	669.90	660.45	650.30	642.45
.8161 - .8470	.6245	6	2 ½	342727EL	342827EL	342927EL	9 ½ ₃₂ - 18	755.00	696.05	676.25	666.80	656.75	648.85
.8471 - .8780	.7495	6	2 ⅝	342728EL	342828EL	342928EL	10 ½ ₃₂ - 18	757.30	698.25	678.60	669.15	658.95	651.05
.8781 - .9090	.7495	6	2 ⅝	342729EL	342829EL	342929EL	10 ½ ₃₂ - 18	785.35	726.35	706.55	697.10	687.00	679.10
.9091 - .9410	.7495	8	2 ⅝	342730EL	342830EL	342930EL	10 ½ ₃₂ - 18	808.40	749.25	729.60	720.10	710.05	702.15
.9411 - .9720	.7495	8	2 ⅝	342731EL	342831EL	342931EL	10 ½ ₃₂ - 18	812.30	753.30	733.55	724.10	713.95	706.10
.9721 - 1.0030	.8745	8	2 ¾	342732EL	342832EL	342932EL	10 ½ ₃₂ - 18	844.90	785.85	766.15	756.60	746.55	738.70

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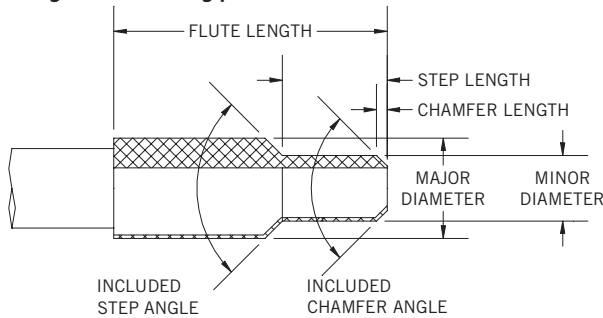
CARBIDE TIPPED STRAIGHT STEP REAMERS

TYPE 3457ST - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR NON-FERROUS

TYPE 3458ST - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR CAST IRON

TYPE 3459ST - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR STEEL

Flute long carbide tips brazed to one piece alloy steel bodies. Straight polished flutes. Available with cutting or non-cutting pilots.



FILL IN BLANKS BELOW FOR ORDERING:

MAJOR DIAM. _____ (+.0003"/-.0000")

MINOR DIAM. CUTTING _____ (+.0003"/-.0000")

MINOR DIAM. NON-CUTTING _____ (+.000"/-.001")

STEP LENGTH _____ (+.005"/-.005")

INCL. STEP ANGLE _____

INCL. CHAMFER ANGLE _____

CHAMFER LENGTH _____

NOTES:

1. Order must indicate if pilot is cutting or non-cutting and identify material being machined.
2. The difference between major and minor diameter shall not exceed 6%, and must fall within dimensions shown for that particular tool.
3. Non-cutting pilot diameters may be smaller than cutting diameter range, but not less than non-cutting pilot minimum diameter dimension shown.
4. It is recommended that stock removal of 3% be the basis for selecting each cutting diameter.

Shank diameter tolerance thru $\frac{3}{32}$ " tool diameter: +.0000"/-.0010".

over $\frac{3}{32}$ " tool diameter: +.0000"/-.0015".

Shanks are ground to the next smallest shank diameter listed in NAS 897 if tool diameter is within .005" of shank diameter.

For closer tolerance pricing per tool diameter, see page 60.

MAJOR AND MINOR CUTTING DIAMETER RANGE	NON-CUT PILOT MIN. DIAM.	MAX SHANK DIAM.	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3457ST EDP NO.	CAST IRON TYPE 3458ST EDP NO.	STEEL TYPE 3459ST EDP NO.	PRICE EACH - FINISHED TO DECIMAL SIZE						
				FLT	OAL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
.1770 - .2040	.1660	.1805	4	1 1/8	4 1/2	345706ST	345806ST	345906ST	\$232.30	\$174.35	\$155.00	\$145.70	\$135.85	\$128.05	\$116.75
.2041 - .2210	.1920	.2075	4	1 1/4	5	345707ST	345807ST	345907ST	232.30	174.35	155.00	145.70	135.85	128.05	116.75
.2211 - .2380	.2080	.2265	4	1 1/2	6	34572344ST	34582344ST	34592344ST	232.30	174.35	155.00	145.70	135.85	128.05	116.75
.2381 - .2530	.2240	.2405	4	1 1/2	6	345708ST	345808ST	345908ST	232.30	174.35	155.00	145.70	135.85	128.05	116.75
.2531 - .2840	.2380	.2485	4	1 1/2	6	345709ST	345809ST	345909ST	234.95	177.00	157.65	148.40	138.55	130.70	119.35
.2841 - .3150	.2670	.2792	4	1 1/2	6	345710ST	345810ST	345910ST	234.95	177.00	157.65	148.40	138.55	130.70	119.35
.3151 - .3470	.2960	.2792	4	1 1/2	6	345711ST	345811ST	345911ST	239.05	181.20	161.80	152.70	142.75	134.95	123.60
.3471 - .3780	.3260	.3105	4	1 3/4	7	345712ST	345812ST	345912ST	239.05	181.20	161.80	152.70	142.75	134.95	123.60
.3781 - .4090	.3550	.3105	4	1 3/4	7	345713ST	345813ST	345913ST	245.10	187.40	168.00	158.75	148.85	141.00	129.75
.4091 - .4410	.3850	.3730	6	1 3/4	7	345714ST	345814ST	345914ST	256.00	198.00	178.65	169.35	159.50	151.65	140.45
.4411 - .4720	.4150	.3730	6	1 3/4	7	345715ST	345815ST	345915ST	267.00	209.20	189.85	180.60	170.70	162.90	151.60
.4721 - .5030	.4440	.4355	6	2	8	345716ST	345816ST	345916ST	286.15	224.15	203.35	193.55	182.95	174.55	162.40
.5031 - .5340	.4730	.4355	6	2	8	345717ST	345817ST	345917ST	290.85	228.90	208.15	198.30	187.55	179.15	167.15
.5341 - .5660	.5020	.4355	6	2	8	345718ST	345818ST	345918ST	290.85	228.90	208.15	198.30	187.55	179.15	167.15
.5661 - .5970	.5320	.4355	6	2	8	345719ST	345819ST	345919ST	297.25	235.35	214.55	204.65	194.15	185.65	173.50
.5971 - .6280	.5610	.5615	6	2 1/4	9	345720ST	345820ST	345920ST	297.25	235.35	214.55	204.65	194.15	185.65	173.50
.6281 - .6590	.5900	.5615	6	2 1/4	9	345721ST	345821ST	345921ST	300.50	238.50	217.75	207.75	197.15	188.85	176.75
.6591 - .6910	.6200	.5615	6	2 1/4	9	345722ST	345822ST	345922ST	300.50	238.50	217.75	207.75	197.15	188.85	176.75
.6911 - .7220	.6500	.5615	6	2 1/4	9	345723ST	345823ST	345923ST	308.35	246.40	225.65	215.85	205.25	196.85	184.70
.7221 - .7530	.6790	.6245	6	2 1/2	9 1/2	345724ST	345824ST	345924ST	308.35	246.40	225.65	215.85	205.25	196.85	184.70
.7531 - .7840	.7080	.6245	6	2 1/2	9 1/2	345725ST	345825ST	345925ST	314.70	252.75	232.10	222.20	211.45	203.20	191.05
.7841 - .8160	.7370	.6245	6	2 1/2	9 1/2	345726ST	345826ST	345926ST	314.70	252.75	232.10	222.20	211.45	203.20	191.05
.8161 - .8470	.7670	.6245	6	2 1/2	9 1/2	345727ST	345827ST	345927ST	322.30	260.35	239.60	229.75	219.10	210.75	198.70
.8471 - .8780	.7970	.7495	6	2 3/8	10	345728ST	345828ST	345928ST	334.55	270.20	248.55	238.45	227.35	218.70	206.15
.8781 - .9090	.8260	.7495	6	2 3/8	10	345729ST	345829ST	345929ST	368.55	304.20	282.60	272.55	261.35	252.75	240.20
.9091 - .9410	.8550	.7495	8	2 3/8	10	345730ST	345830ST	345930ST	368.55	304.20	282.60	272.55	261.35	252.75	240.20
.9411 - .9720	.8850	.7495	8	2 3/8	10	345731ST	345831ST	345931ST	380.05	315.65	294.15	283.90	272.75	264.05	251.50
.9721 - 1.0030	.9140	.8745	8	2 3/4	10 1/2	345732ST	345832ST	345932ST	380.05	315.65	294.15	283.90	272.75	264.05	251.50
1.0031 - 1.0660	.9430	.8745	8	2 3/4	10 1/2	345734ST	345834ST	345934ST	383.30	321.60	300.75	291.00	280.50	272.15	260.20
1.0661 - 1.1280	1.0020	.8745	8	2 3/8	11	345736ST	345836ST	345936ST	404.70	343.05	322.50	312.75	302.10	293.80	281.70
1.1281 - 1.1905	1.0610	.9995	8	2 3/8	11	345738ST	345838ST	345938ST	417.70	355.85	335.30	325.55	314.85	306.55	294.55
1.1906 - 1.2530	1.1200	.9995	8	3	11 1/2	345740ST	345840ST	345940ST	441.60	379.95	359.10	349.40	338.90	330.50	318.60
1.2531 - 1.3155	1.1780	.9995	8	3	11 1/2	345742ST	345842ST	345942ST	450.35	388.65	368.00	358.25	347.70	339.30	327.25
1.3156 - 1.3780	1.2370	.9995	8	3 1/4	12	345744ST	345844ST	345944ST	472.10	410.45	389.85	380.05	369.45	361.05	349.05
1.3781 - 1.4405	1.2960	.9995	8	3 1/4	12	345746ST	345846ST	345946ST	500.95	439.15	418.45	408.70	398.10	389.85	377.70
1.4406 - 1.5030	1.3550	1.2495	8	3 1/2	12 1/2	345748ST	345848ST	345948ST	512.05	450.35	429.80	419.95	409.35	401.05	388.90

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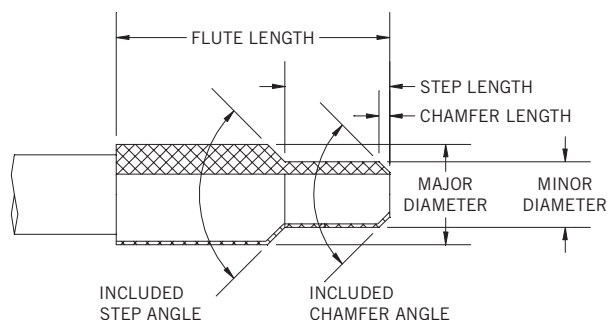
CARBIDE TIPPED RIGHT SPIRAL STEP REAMERS

TYPE 3442ST - STRAIGHT SHANK - RIGHT SPIRAL FLUTE LONG CARBIDE - FOR NON-FERROUS

TYPE 3443ST - STRAIGHT SHANK - RIGHT SPIRAL FLUTE LONG CARBIDE - FOR CAST IRON

TYPE 3444ST - STRAIGHT SHANK - RIGHT SPIRAL FLUTE LONG CARBIDE - FOR STEEL

Flute long carbide tips brazed to one piece hardened alloy steel bodies. Right spiral polished flutes. Available with cutting or non-cutting pilots.



FILL IN BLANKS BELOW FOR ORDERING:

MAJOR DIAM. _____ (+.0003"/-.0000")

MINOR DIAM. CUTTING _____ (+.0003"/-.0000")

MINOR DIAM. NON-CUTTING _____ (+.000"/-.001")

STEP LENGTH _____ (+.005"/-.005")

INCL. STEP ANGLE _____

INCL. CHAMFER ANGLE _____

CHAMFER LENGTH _____

NOTES:

- Order must indicate if pilot is cutting or non-cutting and identify material being machined.
- The difference between major and minor diameter shall not exceed 6%, and must fall within dimensions shown for that particular tool.
- Non-cutting pilot diameters may be smaller than cutting diameter range, but not less than non-cutting pilot minimum diameter dimension shown.
- It is recommended that stock removal of 3% be the basis for selecting each cutting diameter.

Shank diameter tolerance thru $\frac{3}{32}$ " tool diameter: +.0000"/-.0010".
over $\frac{3}{32}$ " tool diameter: +.0000"/-.0015".

Shanks are ground to the next smallest shank diameter listed in NAS 897 if tool diameter is within .005" of shank diameter.
For closer tolerance pricing per tool diameter, see page 60.

MAJOR AND MINOR CUTTING DIAMETER RANGE	NON-CUT PILOT MIN. DIAM.	MAX SHANK DIAM.	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3442ST EDP NO.	CAST IRON TYPE 3443ST EDP NO.	STEEL TYPE 3444ST EDP NO.	PRICE EACH - FINISHED TO DECIMAL SIZE						
				FLT	OAL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
.2841 - .3150	.2670	.2792	4	1 1/2	6	344210ST	344310ST	344410ST	\$256.90	\$202.45	\$184.45	\$175.70	\$166.45	\$159.20	\$148.50
.3151 - .3470	.2960	.2792	4	1 1/2	6	344211ST	344311ST	344411ST	271.95	217.65	199.35	190.90	181.45	174.25	163.60
.3471 - .3780	.3260	.3105	4	1 3/4	7	344212ST	344312ST	344412ST	273.45	219.25	201.00	192.40	183.10	175.70	165.25
.3781 - .4090	.3550	.3105	4	1 3/4	7	344213ST	344313ST	344413ST	280.80	226.50	208.35	199.65	190.35	183.10	172.45
.4091 - .4410	.3850	.3730	6	1 3/4	7	344214ST	344314ST	344414ST	287.35	233.25	214.95	206.40	197.00	189.75	179.00
.4411 - .4720	.4150	.3730	6	1 3/4	7	344215ST	344315ST	344415ST	298.75	244.55	226.40	217.75	208.50	201.10	190.50
.4721 - .5030	.4440	.4355	6	2	8	344216ST	344316ST	344416ST	320.85	263.00	243.50	234.35	224.55	216.65	205.40
.5031 - .5340	.4730	.4355	6	2	8	344217ST	344317ST	344417ST	326.80	269.00	249.55	240.40	230.45	222.70	211.40
.5341 - .5660	.5020	.4355	6	2	8	344218ST	344318ST	344418ST	326.80	269.00	249.55	240.40	230.45	222.70	211.40
.5661 - .5970	.5320	.4355	6	2	8	344219ST	344319ST	344419ST	333.00	275.25	256.00	246.70	236.80	229.00	217.65
.5971 - .6280	.5610	.5615	6	2 1/4	9	344220ST	344320ST	344420ST	333.00	275.25	256.00	246.70	236.80	229.00	217.65
.6281 - .6590	.5900	.5615	6	2 1/4	9	344221ST	344321ST	344421ST	339.90	282.30	262.65	253.55	243.50	235.80	224.55
.6591 - .6910	.6200	.5615	6	2 1/4	9	344222ST	344322ST	344422ST	353.95	296.05	276.60	267.40	257.55	249.85	238.45
.6911 - .7220	.6500	.5615	6	2 1/4	9	344223ST	344323ST	344423ST	357.50	299.70	280.30	271.10	261.20	253.35	242.15
.7221 - .7530	.6790	.6245	6	2 1/2	9 1/2	344224ST	344324ST	344424ST	361.05	303.25	283.90	274.65	264.85	256.95	245.55
.7531 - .7840	.7080	.6245	6	2 1/2	9 1/2	344225ST	344325ST	344425ST	367.65	309.75	290.40	281.25	271.25	263.45	252.15
.7841 - .8160	.7370	.6245	6	2 1/2	9 1/2	344226ST	344326ST	344426ST	367.65	309.75	290.40	281.25	271.25	263.45	252.15
.8161 - .8470	.7670	.6245	6	2 1/2	9 1/2	344227ST	344327ST	344427ST	381.35	323.55	304.15	294.90	284.85	277.15	265.80
.8471 - .8780	.7970	.7495	6	2 3/8	10	344228ST	344328ST	344428ST	395.70	335.75	315.55	306.10	295.65	287.65	275.95
.8781 - .9090	.8260	.7495	6	2 3/8	10	344229ST	344329ST	344429ST	441.15	380.95	360.85	351.30	341.05	332.95	321.00
.9091 - .9410	.8550	.7495	8	2 3/8	10	344230ST	344330ST	344430ST	441.15	380.95	360.85	351.30	341.05	332.95	321.00
.9411 - .9720	.8850	.7495	8	2 3/8	10	344231ST	344331ST	344431ST	456.85	396.75	376.70	366.95	356.75	348.75	337.00
.9721 - 1.0030	.9140	.8745	8	2 3/4	10 1/2	344232ST	344332ST	344432ST	456.85	396.75	376.70	366.95	356.75	348.75	337.00
1.0031 - 1.0660	.9430	.8745	8	2 3/4	10 1/2	344234ST	344334ST	344434ST	515.90	455.80	435.70	426.10	415.80	407.80	396.00
1.0661 - 1.1280	1.0020	.8745	8	2 3/8	11	344236ST	344336ST	344436ST	528.15	468.05	447.95	438.40	428.05	420.05	408.15
1.1281 - 1.1905	1.0610	.9995	8	2 3/8	11	344238ST	344338ST	344438ST	549.10	489.15	468.95	459.40	449.05	441.05	429.25
1.1906 - 1.2530	1.1200	.9995	8	3	11 1/2	344240ST	344340ST	344440ST	573.75	513.80	493.75	484.00	473.85	465.70	453.90
1.2531 - 1.3155	1.1780	.9995	8	3	11 1/2	344242ST	344342ST	344442ST	622.40	562.30	542.15	532.70	522.25	514.25	502.50
1.3156 - 1.3780	1.2370	.9995	8	3 1/4	12	344244ST	344344ST	344444ST	670.25	610.15	590.20	580.60	570.25	562.15	550.60
1.3781 - 1.4405	1.2960	.9995	8	3 1/4	12	344246ST	344346ST	344446ST	703.00	642.90	622.85	613.25	603.05	594.90	583.20
1.4406 - 1.5030	1.3550	1.2495	8	3 1/2	12 1/2	344248ST	344348ST	344448ST	736.05	676.10	655.90	646.40	636.10	628.10	616.15

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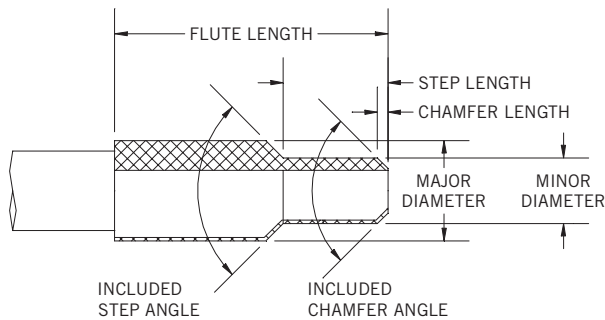
CARBIDE TIPPED LEFT SPIRAL STEP REAMERS

TYPE 3482ST - STRAIGHT SHANK - LEFT SPIRAL FLUTE LONG CARBIDE - FOR NON-FERROUS

TYPE 3483ST - STRAIGHT SHANK - LEFT SPIRAL FLUTE LONG CARBIDE - FOR CAST IRON

TYPE 3484ST - STRAIGHT SHANK - LEFT SPIRAL FLUTE LONG CARBIDE - FOR STEEL

Flute long carbide tips brazed to one piece hardened alloy steel bodies. Left spiral polished flutes. Available with cutting or non-cutting pilots.



FILL IN BLANKS BELOW FOR ORDERING:

MAJOR DIAM. _____ (+.0003"/-.0000")

MINOR DIAM. CUTTING _____ (+.0003"/-.0000")

MINOR DIAM. NON-CUTTING _____ (+.000"/-.001")

STEP LENGTH _____ (+.005"/-.005")

INCL. STEP ANGLE _____

INCL. CHAMFER ANGLE _____

CHAMFER LENGTH _____

NOTES:

1. Order must indicate if pilot is cutting or non-cutting and identify material being machined.
2. The difference between major and minor diameter shall not exceed 6%, and must fall within dimensions shown for that particular tool.
3. Non-cutting pilot diameters may be smaller than cutting diameter range, but not less than non-cutting pilot minimum diameter dimension shown.
4. It is recommended that stock removal of 3% be the basis for selecting each cutting diameter.

Shank diameter tolerance thru $\frac{3}{32}$ " tool diameter: +.0000"/-.0010".

over $\frac{3}{32}$ " tool diameter: +.0000"/-.0015".

Shanks are ground to the next smallest shank diameter listed in NAS 897 if tool diameter is within .005" of shank diameter.

For closer tolerance pricing per tool diameter, see page 60.

MAJOR AND MINOR CUTTING DIAMETER RANGE	NON-CUT PILOT MIN. DIAM.	MAX SHANK DIAM.	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3482ST EDP NO.	CAST IRON TYPE 3483ST EDP NO.	STEEL TYPE 3484ST EDP NO.	PRICE EACH - FINISHED TO DECIMAL SIZE						
				FLT	OAL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
.2841 - .3150	.2670	.2792	4	1 1/2	6	348210ST	348310ST	348410ST	\$273.90	\$216.05	\$196.80	\$187.50	\$177.50	\$169.70	\$158.45
.3151 - .3470	.2960	.2792	4	1 1/2	6	348211ST	348311ST	348411ST	290.15	232.15	212.75	203.60	193.60	185.80	174.40
.3471 - .3780	.3260	.3105	4	1 3/4	7	348212ST	348312ST	348412ST	291.75	233.70	214.50	205.25	195.25	187.50	176.05
.3781 - .4090	.3550	.3105	4	1 3/4	7	348213ST	348313ST	348413ST	299.45	241.45	222.25	212.95	203.05	195.25	183.95
.4091 - .4410	.3850	.3730	6	1 3/4	7	348214ST	348314ST	348414ST	306.50	248.55	229.20	220.15	210.15	202.40	191.05
.4411 - .4720	.4150	.3730	6	1 3/4	7	348215ST	348315ST	348415ST	318.75	260.75	241.40	232.30	222.35	214.55	203.20
.4721 - .5030	.4440	.4355	6	2	8	348216ST	348316ST	348416ST	329.45	270.10	250.10	240.65	230.45	222.50	210.85
.5031 - .5340	.4730	.4355	6	2	8	348217ST	348317ST	348417ST	335.65	276.25	256.30	246.75	236.80	228.70	216.90
.5341 - .5660	.5020	.4355	6	2	8	348218ST	348318ST	348418ST	335.65	276.25	256.30	246.75	236.80	228.70	216.90
.5661 - .5970	.5320	.4355	6	2	8	348219ST	348319ST	348419ST	342.15	282.65	262.65	253.25	243.15	235.10	223.30
.5971 - .6280	.5610	.5615	6	2 1/4	9	348220ST	348320ST	348420ST	342.15	282.65	262.65	253.25	243.15	235.10	223.30
.6281 - .6590	.5900	.5615	6	2 1/4	9	348221ST	348321ST	348421ST	349.10	289.60	269.80	260.35	250.10	242.15	230.45
.6591 - .6910	.6200	.5615	6	2 1/4	9	348222ST	348322ST	348422ST	363.40	304.00	284.10	274.65	264.35	256.35	244.80
.6911 - .7220	.6500	.5615	6	2 1/4	9	348223ST	348323ST	348423ST	367.05	307.75	287.90	278.30	268.30	260.30	248.40
.7221 - .7530	.6790	.6245	6	2 1/2	9 1/2	348224ST	348324ST	348424ST	370.90	311.30	291.45	282.05	271.85	263.85	252.20
.7531 - .7840	.7080	.6245	6	2 1/2	9 1/2	348225ST	348325ST	348425ST	377.55	318.05	298.25	288.65	278.35	270.40	258.85
.7841 - .8160	.7370	.6245	6	2 1/2	9 1/2	348226ST	348326ST	348426ST	377.55	318.05	298.25	288.65	278.35	270.40	258.85
.8161 - .8470	.7670	.6245	6	2 1/2	9 1/2	348227ST	348327ST	348427ST	391.55	332.10	312.25	302.70	292.55	284.65	272.90
.8471 - .8780	.7970	.7495	6	2 1/2	10	348228ST	348328ST	348428ST	406.25	344.60	324.00	314.20	303.60	295.30	283.20
.8781 - .9090	.8260	.7495	6	2 1/2	10	348229ST	348329ST	348429ST	453.00	391.25	370.65	360.75	350.20	341.80	329.75
.9091 - .9410	.8550	.7495	8	2 5/8	10	348230ST	348330ST	348430ST	453.00	391.25	370.65	360.75	350.20	341.80	329.75
.9411 - .9720	.8850	.7495	8	2 5/8	10	348231ST	348331ST	348431ST	469.15	407.55	386.75	376.95	366.50	358.10	346.00
.9721 - 1.0030	.9140	.8745	8	2 3/4	10 1/2	348232ST	348332ST	348432ST	469.15	407.55	386.75	376.95	366.50	358.10	346.00
1.0031 - 1.0660	.9430	.8745	8	2 3/4	10 1/2	348234ST	348334ST	348434ST	529.65	468.05	447.35	437.55	427.00	418.75	406.45
1.0661 - 1.1280	1.0020	.8745	8	2 5/8	11	348236ST	348336ST	348436ST	542.15	480.65	459.95	450.10	439.55	431.30	419.20
1.1281 - 1.1905	1.0610	.9995	8	2 5/8	11	348238ST	348338ST	348438ST	563.75	502.05	481.55	471.65	461.10	452.90	440.65
1.1906 - 1.2530	1.1200	.9995	8	3	11 1/2	348240ST	348340ST	348440ST	589.15	527.55	506.95	497.05	486.50	478.25	466.05
1.2531 - 1.3155	1.1780	.9995	8	3	11 1/2	348242ST	348342ST	348442ST	639.10	577.45	556.80	546.95	536.45	527.90	515.95
1.3156 - 1.3780	1.2370	.9995	8	3 1/4	12	348244ST	348344ST	348444ST	688.35	626.70	605.95	596.10	585.60	577.15	565.25
1.3781 - 1.4405	1.2960	.9995	8	3 1/4	12	348246ST	348346ST	348446ST	721.85	660.30	639.50	629.65	619.25	610.90	598.85
1.4406 - 1.5030	1.3550	1.2495	8	3 1/2	12 1/2	348248ST	348348ST	348448ST	755.85	694.00	673.30	663.60	652.95	644.70	632.70

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FEEDS & SPEEDS CHARTS FOR DRILLS - CARBIDE TIPPED

Feeds & speeds are a starting recommendation only. Factors such as machine, fixture and tooling rigidity, horsepower available, coolant application and others will affect the performance significantly. Please read machine operators instructions and use all safety shields and glasses before performing these operations.



$$\text{IPM} = \text{RPM} \times \text{IPR}$$

$$\text{RPM} = \text{SFPM} \times 3.82 / \text{Drill Diameter}$$

CLASSIFICATION	MATERIAL	BRINELL	SPEED IN SFPM	FEED RATE (INCHES PER REVOLUTION)					HOLE DIAMETER IN INCHES			
			GENERAL PURPOSE (G.P.)	1/8	1/4	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2
NON-FERROUS (SOFT)	ALUMINUM ALLOY - CAST WROUGHT	30 - 150*	250-350	.003	.005	.007	.008	.010	.011	.014	.017	.019
	MAGNESIUM ALLOY	50 - 90*	300-400	.003	.005	.006	.007	.008	.009	.013	.015	.016
	LEAD ALLOY	10 - 20*	350-450	.003	.005	.006	.007	.008	.009	.013	.015	.017
	NON-METAL AND PLASTIC	-	175-450	.002	.004	.005	.005	.006	.008	.009	.010	.012
	ZINC ALLOY - DIE CAST	80 - 100	300-400	.003	.005	.007	.009	.011	.012	.014	.016	.018
NON-FERROUS (HARD)	ALUMINUM BRONZE	40 - 175	125-190	.002	.005	.007	.008	.009	.010	.012	.014	.016
	BRASS ALLOY - LEADED AND FREE CUTTING	10 - 100Rb	225-400	.003	.005	.007	.008	.009	.010	.012	.014	.016
	NICKEL SILVER	10 - 100Rb	125-190	.002	.005	.007	.008	.009	.010	.012	.014	.016
	COPPER ALLOY - TOUGH	40 - 200*	125-190	.002	.005	.007	.008	.009	.010	.012	.014	.016
	DUCTILE CAST IRON - AUSTENITIC	120 - 275	-	-	-	-	-	-	-	-	-	-
CAST IRON	DUCTILE CAST IRON - FERRITIC	140 - 270	150-225	.002	.004	.006	.008	.010	.012	.014	.016	.018
	DUCTILE CAST IRON - MARTENSITIC	270 - 400	-	-	-	-	-	-	-	-	-	-
	GRAY - PEARLITIC	220 - 320	130-225	.002	.004	.006	.007	.009	.010	.013	.016	.018
	GRAY - FERRITIC	120 - 220	125-190	.002	.005	.008	.009	.010	.011	.012	.014	.016
	MALLEABLE CAST IRON - MARTENSITIC	200 - 320	100-150	.002	.004	.006	.007	.008	.010	.012	.014	.016
LOW CARBON STEELS	LOW AND MEDIUM CARBON STEEL - FREE MACHINING	100 - 250	125-175	.003	.004	.008	.010	.012	.014	.017	.018	.019
	LOW AND MEDIUM CARBON STEEL - WROUGHT	100 - 375	-	-	-	-	-	-	-	-	-	-
MEDIUM STRENGTH STEELS	LOW AND MEDIUM CARBON ALLOY STEEL - FREE MACHINING	100 - 275	-	-	-	-	-	-	-	-	-	-
	LOW AND MEDIUM CARBON ALLOY STEEL	85 - 375	-	-	-	-	-	-	-	-	-	-
	STAINLESS STEEL - 400 SERIES	135 - 325	-	-	-	-	-	-	-	-	-	-
	STAINLESS STEEL - 400 SERIES FREE MACHINING	135 - 275	100-150	.002	.004	.005	.006	.007	.008	.010	.012	.014
HIGH STRENGTH STEELS	HIGH STRENGTH STEEL - WROUGHT & TOOL STEEL	175 - 400	-	-	-	-	-	-	-	-	-	-
HIGH TEMP. ALLOYS	HIGH TEMP ALLOYS	140 - 300	-	-	-	-	-	-	-	-	-	-
	NICKEL & IRON BASE ALLOY	135 - 375	-	-	-	-	-	-	-	-	-	-
	STAINLESS STEEL - 300 SERIES	150 - 440	-	-	-	-	-	-	-	-	-	-
	TITANIUM ALLOY	110 - 380	-	-	-	-	-	-	-	-	-	-

CLASSIFICATION	MATERIAL	BRINELL	SPEED IN SFPM	FEED RATE (INCHES PER REVOLUTION)					HOLE DIAMETER IN INCHES			
			COOLANT FED (C.F.)	1/8	1/4	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2
NON-FERROUS (SOFT)	ALUMINUM ALLOY - CAST WROUGHT	30 - 150*	375-550	-	.004	.005	.006	.006	.007	.009	-	-
	MAGNESIUM ALLOY	50 - 90*	450-550	-	.005	.006	.007	.008	.009	.013	-	-
	LEAD ALLOY	10 - 20*	400-500	-	.004	.006	.007	.008	.009	.013	-	-
	NON-METAL AND PLASTIC	-	-	-	-	-	-	-	-	-	-	-
	ZINC ALLOY - DIE CAST	80 - 100	400-500	-	.004	.005	.006	.008	.009	.010	-	-
NON-FERROUS (HARD)	ALUMINUM BRONZE	40 - 175	200-300	-	.004	.005	.006	.007	.008	.010	-	-
	BRASS ALLOY - LEADED AND FREE CUTTING	10 - 100Rb	300-450	-	.004	.005	.006	.007	.008	.010	-	-
	NICKEL SILVER	10 - 100Rb	225-300	-	.004	.005	.006	.007	.008	.010	-	-
	COPPER ALLOY - TOUGH	40 - 200*	225-300	-	.004	.005	.006	.007	.008	.010	-	-
	DUCTILE CAST IRON - AUSTENITIC	120 - 275	-	-	-	-	-	-	-	-	-	-
CAST IRON	DUCTILE CAST IRON - FERRITIC	140 - 270	200-250	-	.004	.005	.006	.007	.008	.010	-	-
	DUCTILE CAST IRON - MARTENSITIC	270 - 400	200-250	-	.004	.005	.006	.007	.008	.010	-	-
	GRAY - PEARLITIC	220 - 320	225-325	-	.004	.006	.008	.010	.012	.015	-	-
	GRAY - FERRITIC	120 - 220	200-250	-	.004	.006	.008	.008	.008	.010	-	-
	MALLEABLE CAST IRON - MARTENSITIC	200 - 320	200-250	-	.004	.005	.006	.007	.008	.010	-	-
LOW CARBON STEELS	LOW AND MEDIUM CARBON STEEL - FREE MACHINING	100 - 250	150-250	-	.005	.006	.008	.009	.010	.012	-	-
	LOW AND MEDIUM CARBON STEEL - WROUGHT	100 - 375	-	-	-	-	-	-	-	-	-	-
MEDIUM STRENGTH STEELS	LOW AND MEDIUM CARBON ALLOY STEEL - FREE MACHINING	100 - 275	100-220	-	.005	.006	.007	.008	.010	.012	-	-
	LOW AND MEDIUM CARBON ALLOY STEEL	85 - 375	100-150	-	.005	.006	.007	.008	.010	.012	-	-
	STAINLESS STEEL - 400 SERIES	135 - 325	110-150	-	.004	.005	.006	.007	.008	.010	-	-
	STAINLESS STEEL - 400 SERIES FREE MACHINING	135 - 275	125-190	-	.004	.005	.006	.007	.007	.008	-	-
HIGH STRENGTH STEELS	HIGH STRENGTH STEEL - WROUGHT & TOOL STEEL	175 - 400	100-150	-	.0015	.002	.003	.004	.005	.006	-	-
HIGH TEMP. ALLOYS	HIGH TEMP ALLOYS	140 - 300	-	-	-	-	-	-	-	-	-	-
	NICKEL & IRON BASE ALLOY	135 - 375	-	-	-	-	-	-	-	-	-	-
	STAINLESS STEEL - 300 SERIES	150 - 440	-	-	-	-	-	-	-	-	-	-
	TITANIUM ALLOY	110 - 380	-	-	-	-	-	-	-	-	-	-

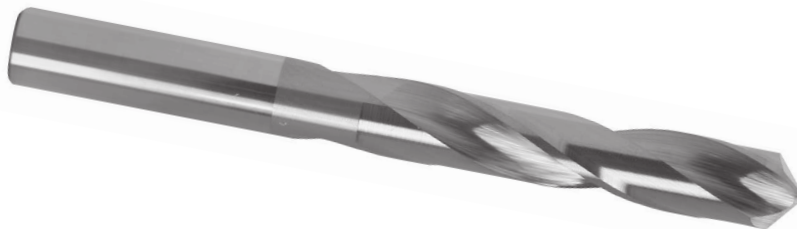
SOLID CARBIDE JOBBERS LENGTH TWIST DRILLS

DISCONTINUED - WHILE SUPPLIES LAST

TYPE 3860 - JOBBERS LENGTH - 118° SPLIT POINT

Solid Carbide 25° Helix jobbers drill manufactured with sub micrograin C2 carbide for general purpose drilling of non-ferrous alloys, cast iron, plastics, aluminum, steel, and highly abrasive materials. Chisel point centrality is within .001.

Tool diameter tolerance: +.0000 / -.0005
Included angle tolerance: +/- 2°
Lip Height TIV: +.0015 / -.0015
Metric tolerance: h7



TOOL DIAMETER		LENGTH		TYPE 3860 EDP NO.	PRICE EACH
DEC.	FRAC./mm WIRE/LTR	FLT	OAL		
.0312	1/32	5/16	1 1/4	3860002	\$19.65
.0320	67	5/16	1 1/4	38600320	19.65
.0330	66	5/16	1 1/4	38600330	19.65
.0350	65	5/16	1 3/8	38600350	19.65
.0360	64	5/8	1 3/8	38600360	19.65
.0370	63	5/8	1 3/8	38600370	19.65
.0380	62	5/8	1 3/8	38600380	19.65
.0390	61	5/8	1 3/8	38600390	19.65
.0394	1.0mm	16	38	3860010	23.60
.0400	60	3/4	1 1/2	38600400	19.65
.0410	59	3/4	1 1/2	38600410	19.65
.0420	58	3/4	1 1/2	38600420	19.65
.0430	57	3/4	1 1/2	38600430	19.65
.0465	56	3/4	1 1/2	38600465	19.65
.0469	3/64	3/4	1 1/2	3860003	19.65
.0520	55	3/4	1 1/2	38600520	19.65
.0550	54	3/4	1 1/2	38600550	19.65
.0591	1.5mm	19	38	3860015	23.50
.0595	53	3/4	1 1/2	38600595	19.65
.0625	1/16	3/4	1 1/2	3860004	18.60
.0635	52	3/4	1 1/2	38600635	19.65
.0670	51	3/4	1 1/2	38600670	19.65
.0700	50	7/8	1 3/4	38600700	20.25
.0730	49	7/8	1 3/4	38600730	20.70
.0760	48	7/8	1 3/4	38600760	20.95
.0781	5/64	7/8	1 3/4	3860005	20.65
.0785	47	7/8	1 3/4	38600785	20.95
.0787	2.0mm	22	44	3860020	25.00
.0810	46	7/8	1 3/4	38600810	20.95
.0820	45	7/8	1 3/4	38600820	21.50
.0860	44	1	2	38600860	22.10
.0890	43	1	2	38600890	22.10
.0935	42	1	2	38600935	22.35
.0938	3/32	1	2	3860006	21.40
.0960	41	1	2	38600960	22.40
.0980	40	1	2	38600980	22.55
.0984	2.5mm	25	50	3860025	25.75
.0995	39	1 1/4	2 1/4	38600995	22.80
.1015	38	1 1/4	2 1/4	38601015	22.80
.1040	37	1 1/4	2 1/4	38601040	22.80
.1065	36	1 1/4	2 1/4	38601065	22.80
.1094	7/64	1 1/4	2 1/4	3860007	23.40
.1100	35	1 1/4	2 1/4	38601100	23.40
.1110	34	1 1/4	2 1/4	38601110	23.95
.1130	33	1 1/4	2 1/4	38601130	23.95
.1160	32	1 1/4	2 1/4	38601160	24.50
.1181	3.0mm	32	57	3860030	28.70
.1200	31	1 1/4	2 1/4	38601200	24.90
.1250	1/8	1 1/4	2 1/4	3860008	24.20

TOOL DIAMETER		LENGTH		TYPE 3860 EDP NO.	PRICE EACH
DEC.	FRAC./mm WIRE/LTR	FLT	OAL		
.1285	30	1 1/4	2 1/4	38601285	\$25.90
.1360	29	1 3/8	2 1/2	38601360	26.10
.1378	3.5mm	35	63	3860035	30.10
.1405	28	1 3/8	2 1/2	38601405	26.80
.1406	3/64	1 3/8	2 1/2	3860009	28.85
.1440	27	1 3/8	2 1/2	38601440	27.95
.1470	26	1 3/8	2 1/2	38601470	28.35
.1495	25	1 3/8	2 1/2	38601495	28.70
.1520	24	1 3/8	2 1/2	38601520	29.35
.1540	23	1 3/8	2 1/2	38601540	30.60
.1562	3/32	1 3/8	2 1/2	386010	30.10
.1570	22	1 3/8	2 1/2	38601570	32.40
.1575	4.0mm	35	63	3860040	36.05
.1590	21	1 3/8	2 1/2	38601590	32.85
.1610	20	1 3/8	2 1/2	38601610	33.10
.1660	19	1 3/8	2 3/4	38601660	34.45
.1695	18	1 3/8	2 3/4	38601695	34.70
.1719	11/64	1 3/8	2 3/4	386011	35.35
.1730	17	1 3/8	2 3/4	38601730	35.35
.1770	16	1 3/8	2 3/4	38601770	36.05
.1772	4.5mm	41	70	3860045	39.75
.1800	15	1 3/8	2 3/4	38601800	36.25
.1820	14	1 3/8	2 3/4	38601820	36.10
.1850	13	1 3/8	2 3/4	38601850	36.90
.1875	3/16	1 3/8	2 3/4	386012	35.40
.1890	12	1 3/8	2 3/4	38601890	37.40
.1910	11	1 3/8	2 3/4	38601910	38.10
.1935	10	1 3/8	2 3/4	38601935	38.65
.1960	9	1 3/4	3	38601960	39.50
.1969	5.0mm	44	75	3860050	44.40
.1990	8	1 3/4	3	38601990	40.55
.2010	7	1 3/4	3	38602010	41.00
.2031	13/64	1 3/4	3	386013	43.25
.2040	6	1 3/4	3	38602040	42.65
.2055	5	1 3/4	3	38602055	43.25
.2090	4	1 3/4	3	38602090	44.30
.2130	3	1 3/4	3	38602130	45.50
.2165	5.5mm	44	75	3860055	50.05
.2188	7/32	1 3/4	3	386014	44.65
.2210	2	1 3/4	3	38602210	47.30
.2280	1	1 3/4	3	38602280	49.75
.2340	A	2	3 1/4	38602340	55.15
.2344	15/64	2	3 1/4	386015	49.55
.2362	6.0mm	50	82	3860060	55.60
.2380	B	2	3 1/4	38602380	56.65
.2420	C	2	3 1/4	38602420	56.75
.2460	D	2	3 1/4	38602460	58.30
.2500	E, 1/4	2	3 1/4	386016	50.60
.2559	6.5mm	50	82	3860065	65.95

TOOL DIAMETER		LENGTH		TYPE 3860 EDP NO.	PRICE EACH
DEC.	FRAC./mm WIRE/LTR	FLT	OAL		
.2570	F	2	3 1/4	38602570	\$61.95
.2610	G	2 1/8	3 1/2	38602610	62.95
.2656	17/64	2 1/8	3 1/2	386017	55.25
.2660	H	2 1/8	3 1/2	38602660	64.60
.2720	I	2 1/8	3 1/2	38602720	66.00
.2756	7.0mm	54	89	3860070	73.65
.2770	J	2 1/8	3 1/2	38602770	67.55
.2810	K	2 1/8	3 1/2	38602810	68.10
.2812	3/32	2 1/8	3 1/2	386018	59.70
.2900	L	2 1/8	3 1/2	38602900	71.45
.2950	M	2 3/8	3 3/4	38602950	73.90
.2953	7.5mm	60	95	3860075	80.50
.2969	19/64	2 3/8	3 3/4	386019	67.90
.3020	N	2 3/8	3 3/4	38603020	78.35
.3125	5/16	2 3/8	3 3/4	386020	72.10
.3150	8.0mm	60	95	3860080	81.75
.3160	O	2 3/8	3 3/4	38603160	82.95
.3230	P	2 3/8	3 3/4	38603230	85.60
.3281	21/64	2 1/2	4	386021	78.60
.3320	Q	2 1/2	4	38603320	90.85
.3346	8.5mm	63	100	3860085	97.00
.3390	R	2 1/2	4	38603390	93.75
.3438	11/32	2 1/2	4	386022	87.15
.3480	S	2 1/2	4	38603480	102.85
.3543	9.0mm	70	100	3860090	110.55
.3580	T	2 3/4	4 1/4	38603580	106.60
.3594	23/64	2 3/4	4 1/4	386023	95.15
.3680	U	2 3/4	4 1/4	38603680	108.70
.3740	9.5mm	70	108	3860095	114.30
.3750	3/8	2 3/4	4 1/4	386024	103.25
.3770	V	2 3/4	4 1/4	38603770	120.00
.3860	W	2 7/8	4 1/2	38603860	127.25
.3906	25/64	2 7/8	4 1/2	386025	116.75
.3937	10.0mm	73	114	3860100	136.00
.3970	X	2 7/8	4 1/2	38603970	137.70
.4040	Y	2 7/8	4 1/2	38604040	136.55
.4062	13/32	2 7/8	4 1/2	386026	129.45
.4130	Z	2 7/8	4 1/2	38604130	150.85
.4134	10.5mm	73	114	3860105	155.60
.4219	27/64	2 7/8	4 1/2	386027	141.70
.4331	11.0mm	73	114	3860110	173.65
.4375	7/16	2 7/8	4 1/2	386028	153.35
.4528	11.5mm	76	120	3860115	189.65
.4531	29/64	3	4 3/4	386029	166.25
.4688	15/32	3	4 3/4	386030	178.90
.4724	12.0mm	76	120	3860120	201.65
.4844	31/64	3	4 3/4	386031	184.15
.4921	12.5mm	76	120	3860125	224.00
.5000	1/2	3	4 3/4	386032	188.80

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CARBIDE TIPPED TANGED JOBBERS LENGTH TWIST DRILLS

DISCONTINUED - WHILE SUPPLIES LAST

TYPE 3690 - TANGED JOBBERS LENGTH - 118° POINT

TYPE 3691 - TANGED JOBBERS LENGTH - 135° SPLIT POINT

Same as Types 3600 and 3601 on page 130, except all tools are tanged.
Designed for applications requiring ASA split sleeve drill drivers.
(Not usually recommended for steel.)



For drill tolerances, see page 150.

Overall length tolerance: $\pm \frac{1}{4}'' / -\frac{1}{8}''$.

TOOL DIAMETER			LENGTH		118° POINT		135° POINT	
DECIMAL	FRACTION	WIRE LETTER	FLUTE	OVER-ALL	TYPE 3690 EDP NO.	PRICE EACH	TYPE 3691 EDP NO.	PRICE EACH
.1250	$\frac{1}{8}$		1 $\frac{5}{8}$	2 $\frac{3}{4}$	369008	\$29.35	369108	\$34.45
.1285		30	1 $\frac{5}{8}$	2 $\frac{3}{4}$	369230	30.10	369330	34.95
.1360		29	1 $\frac{3}{4}$	2 $\frac{7}{8}$	369229	31.15	369329	35.90
.1405		28	1 $\frac{3}{4}$	2 $\frac{7}{8}$	369228	31.35	369328	36.65
.1406	$\frac{9}{64}$		1 $\frac{3}{4}$	2 $\frac{7}{8}$	369009	31.85	369109	37.35
.1440		27	1 $\frac{7}{8}$	3	369227	32.30	369327	37.65
.1470		26	1 $\frac{7}{8}$	3	369226	30.00	369326	34.95
.1495		25	1 $\frac{7}{8}$	3	369225	30.00	369325	34.95
.1520		24	2	3 $\frac{1}{8}$	369224	32.30	369324	37.65
.1540		23	2	3 $\frac{1}{8}$	369223	31.35	369323	36.65
.1562	$\frac{5}{32}$		2	3 $\frac{1}{8}$	369010	31.30	369110	36.65
.1570		22	2	3 $\frac{1}{8}$	369222	34.85	369322	40.45
.1590		21	2 $\frac{1}{8}$	3 $\frac{1}{4}$	369221	33.25	369321	38.65
.1610		20	2 $\frac{1}{8}$	3 $\frac{1}{4}$	369220	34.10	369320	39.75
.1660		19	2 $\frac{1}{8}$	3 $\frac{1}{4}$	369219	34.10	369319	39.75
.1695		18	2 $\frac{1}{8}$	3 $\frac{1}{4}$	369218	34.10	369318	39.75
.1719	$\frac{11}{64}$		2 $\frac{1}{8}$	3 $\frac{1}{4}$	369011	34.10	369111	39.75
.1730		17	2 $\frac{3}{16}$	3 $\frac{3}{8}$	369217	34.10	369317	39.75
.1770		16	2 $\frac{3}{16}$	3 $\frac{3}{8}$	369216	33.25	369316	38.65
.1800		15	2 $\frac{3}{16}$	3 $\frac{3}{8}$	369215	34.85	369315	40.45
.1820		14	2 $\frac{3}{16}$	3 $\frac{3}{8}$	369214	33.25	369314	38.65
.1850		13	2 $\frac{5}{16}$	3 $\frac{1}{2}$	369213	36.65	369313	38.65
.1875	$\frac{3}{16}$		2 $\frac{5}{16}$	3 $\frac{1}{2}$	369012	33.25	369112	38.65
.1890		12	2 $\frac{5}{16}$	3 $\frac{1}{2}$	369212	38.10	369312	40.45
.1910		11	2 $\frac{5}{16}$	3 $\frac{1}{2}$	369211	35.40	369311	40.80
.1935		10	2 $\frac{7}{16}$	3 $\frac{5}{8}$	369210	34.85	369310	40.45
.1960		9	2 $\frac{7}{16}$	3 $\frac{5}{8}$	369209	35.40	369309	40.80
.1990		8	2 $\frac{7}{16}$	3 $\frac{5}{8}$	369208	35.40	369308	40.80
.2010		7	2 $\frac{7}{16}$	3 $\frac{5}{8}$	369207	35.40	369307	40.80
.2031	$\frac{13}{64}$		2 $\frac{7}{16}$	3 $\frac{5}{8}$	369013	36.45	369113	42.10
.2040		6	2 $\frac{1}{2}$	3 $\frac{3}{4}$	369206	36.00	369306	42.05
.2055		5	2 $\frac{1}{2}$	3 $\frac{3}{4}$	369205	36.60	369305	40.80
.2090		4	2 $\frac{1}{2}$	3 $\frac{3}{4}$	369204	36.00	369304	42.05
.2130		3	2 $\frac{1}{2}$	3 $\frac{3}{4}$	369203	36.60	369303	40.80
.2188	$\frac{7}{32}$		2 $\frac{1}{2}$	3 $\frac{3}{4}$	369014	36.45	369114	42.50
.2210		2	2 $\frac{5}{8}$	3 $\frac{7}{8}$	369202	37.95	369302	44.00
.2280		1	2 $\frac{5}{8}$	3 $\frac{7}{8}$	369201	37.55	369301	43.45
.2340		A	2 $\frac{5}{8}$	3 $\frac{7}{8}$	369401	41.45	369501	47.95
.2344	$\frac{15}{64}$		2 $\frac{5}{8}$	3 $\frac{7}{8}$	369015	39.30	369115	45.75
.2380		B	2 $\frac{3}{4}$	4	369402	41.45	369502	47.95
.2420		C	2 $\frac{3}{4}$	4	369403	41.45	369503	47.95
.2460		D	2 $\frac{3}{4}$	4	369404	40.35	369504	46.85
.2500	$\frac{1}{4}$	E	2 $\frac{3}{4}$	4	369016	39.30	369116	45.75
.2570		F	2 $\frac{7}{8}$	4 $\frac{1}{8}$	369406	46.35	369506	54.15
.2610		G	2 $\frac{7}{8}$	4 $\frac{1}{8}$	369407	47.70	369507	55.05
.2656	$\frac{17}{64}$		2 $\frac{7}{8}$	4 $\frac{1}{8}$	369017	43.70	369117	49.90
.2660		H	2 $\frac{7}{8}$	4 $\frac{1}{8}$	369408	48.55	369508	56.40
.2720		I	2 $\frac{7}{8}$	4 $\frac{1}{8}$	369409	47.70	369509	55.05
.2770		J	2 $\frac{7}{8}$	4 $\frac{1}{8}$	369410	\$48.55	369510	\$56.40
.2810		K	2 $\frac{15}{16}$	4 $\frac{1}{4}$	369411	48.55	369511	56.40
.2812	$\frac{9}{32}$		2 $\frac{15}{16}$	4 $\frac{1}{4}$	369018	46.20	369118	53.50
.2900		L	2 $\frac{15}{16}$	4 $\frac{1}{4}$	369412	48.55	369512	56.40
.2950		M	3 $\frac{1}{16}$	4 $\frac{3}{8}$	369413	53.45	369513	62.30
.2969	$\frac{19}{64}$		3 $\frac{1}{16}$	4 $\frac{3}{8}$	369019	51.35	369119	59.35
.3020		N	3 $\frac{1}{16}$	4 $\frac{3}{8}$	369414	52.30	369514	60.85
.3125	$\frac{5}{16}$		3 $\frac{3}{16}$	4 $\frac{1}{2}$	369020	50.05	369120	58.20
.3160		O	3 $\frac{3}{16}$	4 $\frac{1}{2}$	369415	51.40	369515	59.40
.3230		P	3 $\frac{3}{16}$	4 $\frac{5}{8}$	369416	54.95	369516	63.80
.3281	$\frac{21}{64}$		3 $\frac{3}{16}$	4 $\frac{5}{8}$	369021	53.15	369121	61.85
.3320		Q	3 $\frac{7}{16}$	4 $\frac{3}{4}$	369417	56.25	369517	65.15
.3390		R	3 $\frac{7}{16}$	4 $\frac{3}{4}$	369418	54.95	369518	63.80
.3438	$\frac{11}{32}$		3 $\frac{7}{16}$	4 $\frac{3}{4}$	369022	53.15	369122	61.85
.3480		S	3 $\frac{1}{2}$	4 $\frac{7}{8}$	369419	59.10	369519	68.80
.3580		T	3 $\frac{1}{2}$	4 $\frac{7}{8}$	369420	60.35	369520	70.00
.3594	$\frac{23}{64}$		3 $\frac{1}{2}$	4 $\frac{7}{8}$	369023	56.60	369123	65.85
.3680		U	3 $\frac{5}{8}$	5	369421	58.15	369521	67.15
.3750	$\frac{3}{8}$		3 $\frac{5}{8}$	5	369024	56.60	369124	65.85
.3770		V	3 $\frac{5}{8}$	5	369422	59.10	369522	68.80
.3860		W	3 $\frac{3}{4}$	5 $\frac{1}{8}$	369423	64.85	369523	75.15
.3906	$\frac{25}{64}$		3 $\frac{3}{4}$	5 $\frac{1}{8}$	369025	61.55	369125	71.60
.3970		X	3 $\frac{3}{4}$	5 $\frac{1}{8}$	369424	62.05	369524	72.05
.4040		Y	3 $\frac{7}{8}$	5 $\frac{1}{4}$	369425	64.85	369525	75.15
.4062	$\frac{13}{32}$		3 $\frac{7}{8}$	5 $\frac{1}{4}$	369026	61.55	369126	71.60
.4130		Z	3 $\frac{7}{8}$	5 $\frac{1}{4}$	369426	71.80	369526	83.15
.4219	$\frac{27}{64}$		3 $\frac{15}{16}$	5 $\frac{3}{8}$	369027	67.00	369127	77.70
.4375	$\frac{7}{16}$		4 $\frac{1}{16}$	5 $\frac{1}{2}$	369028	67.00	369128	77.70
.4531	$\frac{29}{64}$		4 $\frac{3}{16}$	5 $\frac{5}{8}$	369029	76.75	369129	89.00
.4688	$\frac{15}{32}$		4 $\frac{3}{16}$	5 $\frac{3}{4}$	369030	75.35	369130	87.10
.4844	$\frac{31}{64}$		4 $\frac{3}{8}$	5 $\frac{7}{8}$	369031	84.05	369131	97.70
.5000	$\frac{1}{2}$		4 $\frac{1}{2}$	6	369032	92.60	369132	97.70
.5156	$\frac{33}{64}$		4 $\frac{13}{16}$	6 $\frac{5}{8}$	369033	120.50	369133	140.00
.5312	$\frac{17}{32}$		4 $\frac{13}{16}$	6 $\frac{5}{8}$	369034	120.50	369134	140.00
.5469	$\frac{35}{64}$		4 $\frac{13}{16}$	6 $\frac{5}{8}$	369035	121.65	369135	141.35
.5625	$\frac{9}{16}$		4 $\frac{13}{16}$	6 $\frac{5}{8}$	369036	121.65	369136	141.35
.5781	$\frac{37}{64}$		4 $\frac{13}{16}$	6 $\frac{5}{8}$	369037	134.25	369137	156.05
.5938	$\frac{19}{32}$		5 $\frac{3}{16}$	7 $\frac{1}{8}$	369038	130.80	369138	151.65
.6094	$\frac{39}{64}$		5 $\frac{3}{16}$	7 $\frac{1}{8}$	369039	154.40	369139	179.25
.6250	$\frac{5}{8}$		5 $\frac{3}{16}$	7 $\frac{1}{8}$	369040	148.00	369140	171.60
.6406	$\frac{41}{64}$		5 $\frac{3}{16}$	7 $\frac{1}{8}$	369041	170.70	369141	198.30
.6562	$\frac{21}{32}$		5 $\frac{3}{16}$	7 $\frac{1}{8}$	369042	150.45	369142	174.65
.6719	$\frac{43}{64}$		5 $\frac{5}{8}$	7 $\frac{5}{8}$	369043	195.95	369143	227.55
.6875	$\frac{11}{16}$		5 $\frac{5}{8}$	7 $\frac{5}{8}$	369044	153.40	369144	177.90
.7031	$\frac{45}{64}$		5 $\frac{5}{8}$	7 $\frac{5}{8}$	369045	179.45	369145	199.50
.7188	$\frac{23}{32}$		5 $\frac{5}{8}$	7 $\frac{5}{8}$	369046	181.15	369146	201.10
.7344	$\frac{47}{64}$		5 $\frac{5}{8}$	7 $\frac{5}{8}$	369047	182.05	369147	202.60
.7500	$\frac{3}{4}$		5 $\frac{13}{16}$	8	369048	185.15	369148	205.40

CARBIDE TIPPED JOBBERS LENGTH TWIST DRILLS

TYPE 3600 - JOBBERS LENGTH - 118° POINT

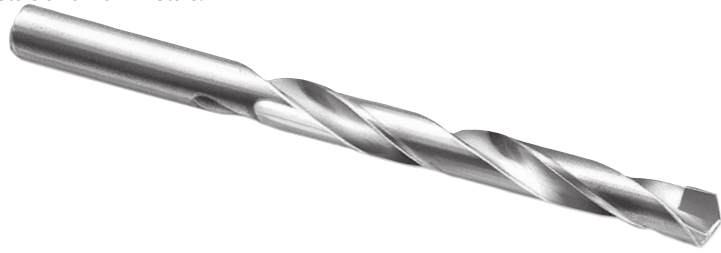
TYPE 3601 - JOBBERS LENGTH - 135° SPLIT POINT

Carbide tip brazed to hardened tool steel bodies.

Smooth flutes for effective chip flow. Precision ground to insure concentricity of tip & body. For drilling cast iron, non-ferrous metals and non-metals.

(Not usually recommended for drilling steel.)

Tanged jobber drill pricing available on our website www.lexingtoncutter.com.



Overall length tolerance: $\pm \frac{1}{4}"/-\frac{1}{8}"$.

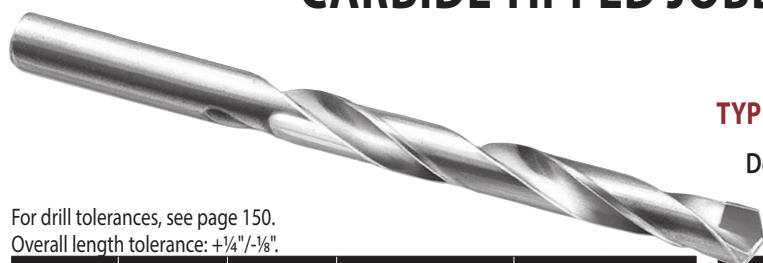
For drill tolerances, see page 150.

For smaller sizes and solid carbide drills see page 128.

TOOL DIAMETER			LENGTH		118° POINT		135° POINT		TOOL DIAMETER			LENGTH		118° POINT		135° POINT	
DECIMAL	FRACTIONAL	WIRE LETTER	FLUTE	OVER-ALL	TYPE 3600 EDP NO.	PRICE EACH	TYPE 3601 EDP NO.	PRICE EACH	DECIMAL	FRACTIONAL	WIRE LETTER	FLUTE	OVER-ALL	TYPE 3600 EDP NO.	PRICE EACH	TYPE 3601 EDP NO.	PRICE EACH
.1160		32	1 5/8	2 3/4	360232	\$26.40	360332	\$30.90	.2720		I	2 7/8	4 1/8	360409	\$39.45	360509	\$45.65
.1200		31	1 5/8	2 3/4	360231	23.90	360331	27.80	.2770		J	2 7/8	4 1/8	360410	40.20	360510	46.70
.1250	1/8		1 5/8	2 3/4	360008	24.40	360108	28.50	.2810		K	2 15/16	4 1/4	360411	40.20	360511	46.70
.1285		30	1 5/8	2 3/4	360230	24.95	360330	28.95	.2812	9/32		2 15/16	4 1/4	360018	38.40	360118	44.40
.1360		29	1 3/4	2 7/8	360229	25.85	360329	29.80	.2900		L	2 15/16	4 1/4	360412	40.20	360512	46.70
.1405		28	1 3/4	2 7/8	360228	26.00	360328	30.40	.2950		M	3 1/16	4 3/8	360413	44.30	360513	51.55
.1406	9/64		1 3/4	2 7/8	360009	26.40	360109	30.75	.2969	19/64		3 1/16	4 3/8	360019	42.50	360119	49.15
.1440		27	1 7/8	3	360227	26.75	360327	31.00	.3020		N	3 1/16	4 3/8	360414	43.25	360514	50.45
.1470		26	1 7/8	3	360226	24.80	360326	28.95	.3125	5/16		3 3/16	4 1/2	360020	41.60	360120	48.15
.1495		25	1 7/8	3	360225	24.80	360325	28.95	.3160		O	3 3/16	4 1/2	360415	42.70	360515	49.35
.1520		24	2	3 1/8	360224	26.75	360324	31.00	.3230		P	3 3/16	4 5/8	360416	45.50	360516	52.60
.1540		23	2	3 1/8	360223	26.00	360323	30.40	.3281	21/64		3 5/16	4 5/8	360021	44.00	360121	51.20
.1562	5/32		2	3 1/8	360010	25.95	360110	30.40	.3320		Q	3 7/16	4 3/4	360417	46.35	360517	54.05
.1570		22	2	3 1/8	360222	28.65	360322	33.55	.3390		R	3 7/16	4 3/4	360418	45.50	360518	52.60
.1590		21	2 1/8	3 1/4	360221	27.60	360321	32.15	.3438	11/32		3 7/16	4 3/4	360022	44.00	360122	51.20
.1610		20	2 1/8	3 1/4	360220	28.25	360320	32.65	.3480		S	3 1/2	4 7/8	360419	48.90	360519	56.80
.1660		19	2 1/8	3 1/4	360219	28.25	360319	32.65	.3580		T	3 1/2	4 7/8	360420	49.90	360520	58.15
.1695		18	2 1/8	3 1/4	360218	28.25	360318	32.65	.3594	23/64		3 1/2	4 7/8	360023	46.85	360123	54.50
.1719	11/64		2 1/8	3 1/4	360011	28.25	360111	32.65	.3680		U	3 5/8	5	360421	48.00	360521	55.70
.1730		17	2 3/16	3 3/8	360217	28.25	360317	32.65	.3750	3/8		3 5/8	5	360024	46.85	360124	54.50
.1770		16	2 3/16	3 3/8	360216	27.60	360316	32.15	.3770		V	3 5/8	5	360422	48.90	360522	56.80
.1800		15	2 3/16	3 3/8	360215	28.65	360315	33.55	.3860		W	3 3/4	5 1/8	360423	53.70	360523	62.15
.1820		14	2 3/16	3 3/8	360214	27.60	360314	32.15	.3906	25/64		3 3/4	5 1/8	360025	50.95	360125	59.35
.1850		13	2 3/16	3 1/2	360213	30.40	360313	32.15	.3970		X	3 3/4	5 1/8	360424	51.40	360524	59.55
.1875	3/16		2 3/16	3 1/2	360012	27.60	360112	32.15	.4040		Y	3 7/8	5 1/4	360425	53.70	360525	62.15
.1890		12	2 5/16	3 1/2	360212	31.75	360312	33.55	.4062	13/32		3 7/8	5 1/4	360026	50.95	360126	59.35
.1910		11	2 5/16	3 1/2	360211	29.35	360311	33.85	.4130		Z	3 7/8	5 1/4	360426	59.40	360526	68.80
.1935		10	2 7/16	3 5/8	360210	28.65	360310	33.55	.4219	27/64		3 15/16	5 3/8	360027	55.40	360127	64.40
.1960		9	2 7/16	3 5/8	360209	29.35	360309	33.85	.4375	7/16		4 1/16	5 1/2	360028	55.40	360128	64.40
.1990		8	2 7/16	3 5/8	360208	29.35	360308	33.85	.4531	29/64		4 3/16	5 5/8	360029	63.80	360129	73.85
.2010		7	2 7/16	3 5/8	360207	29.35	360307	33.85	.4688	15/32		4 5/16	5 3/4	360030	62.30	360130	72.20
.2031	13/64		2 7/16	3 5/8	360013	30.30	360113	34.85	.4844	31/64		4 3/8	5 7/8	360031	69.80	360131	80.80
.2040		6	2 1/2	3 3/4	360206	29.95	360306	34.80	.5000	1/2		4 1/2	6	360032	76.60	360132	80.80
.2055		5	2 1/2	3 3/4	360205	30.30	360305	33.85	.5156	33/64		4 13/16	6 5/8	360033	99.80	360133	115.95
.2090		4	2 1/2	3 3/4	360204	29.95	360304	34.80	.5312	17/32		4 13/16	6 5/8	360034	99.80	360134	115.95
.2130		3	2 1/2	3 3/4	360203	30.30	360303	33.85	.5469	35/64		4 13/16	6 5/8	360035	100.70	360135	116.95
.2188	7/32		2 1/2	3 3/4	360014	30.30	360114	34.85	.5625	9/16		4 13/16	6 5/8	360036	100.70	360136	116.95
.2210		2	2 5/8	3 7/8	360202	31.60	360302	36.45	.5781	37/64		4 13/16	6 5/8	360037	111.20	360137	129.30
.2280		1	2 5/8	3 7/8	360201	30.90	360301	35.90	.5938	19/32		5 3/16	7 1/8	360038	108.10	360138	125.65
.2340		A	2 5/8	3 7/8	360401	34.30	360501	39.75	.6094	39/64		5 3/16	7 1/8	360039	127.85	360139	148.40
.2344	15/64		2 5/8	3 7/8	360015	32.50	360115	37.80	.6250	5/8		5 3/16	7 1/8	360040	122.55	360140	142.15
.2380		B	2 3/4	4	360402	34.30	360502	39.75	.6406	41/64		5 3/16	7 1/8	360041	141.35	360141	164.20
.2420		C	2 3/4	4	360403	34.30	360503	39.75	.6562	21/32		5 3/16	7 1/8	360042	124.65	360142	144.60
.2460		D	2 3/4	4	360404	33.50	360504	38.95	.6719	43/64		5 5/8	7 5/8	360043	162.25	360143	188.30
.2500	1/4	E	2 3/4	4	360016	32.50	360116	37.80	.6875	11/16		5 5/8	7 5/8	360044	127.10	360144	147.40
.2570		F	2 7/8	4 1/8	360406	38.50	360506	44.60	.7031	45/64		5 5/8	7 5/8	360045	148.40	360145	165.10
.2610		G	2 7/8	4 1/8	360407	39.45	360507	45.65	.7188	23/32		5 5/8	7 5/8	360046	150.00	360146	166.60
.2656	17/64		2 7/8	4 1/8	360017	36.20	360117	41.45	.7344	47/64		5 5/8	7 5/8	360047	150.75	360147	167.55
.2660		H	2 7/8	4 1/8	360408	40.20	360508	46.70	.7500	3/4		5 13/16	8	360048	153.00	360148	170.20

CARBIDE TIPPED JOBBERS LENGTH TWIST DRILLS

METRIC



TYPE 3600 - JOBBERS LENGTH - 118° POINT
TYPE 3601 - JOBBERS LENGTH - 135° SPLIT POINT

Detailed description and fractional sizes on page 130.
 (Not usually recommended for steel.)

For drill tolerances, see page 150.

Overall length tolerance: +1/4" - 1/8".

TOOL DIAMETER		FLUTE LENGTH		OVERALL LENGTH		118° POINT		135° POINT	
mm	INCH	mm	INCH	mm	INCH	TYPE 3600 EDP NO.	PRICE EACH	TYPE 3601 EDP NO.	PRICE EACH
3.0	.1181	41	1 5/8	70	2 3/4	3600030	\$32.75	3601030	\$33.55
3.1	.1220	41	1 5/8	70	2 3/4	3600031	34.40	3601031	34.80
3.2	.1260	41	1 5/8	70	2 3/4	3600032	34.40	3601032	34.80
3.3	.1299	44	1 3/4	73	2 7/8	3600033	34.40	3601033	34.80
3.4	.1339	44	1 3/4	73	2 7/8	3600034	34.40	3601034	34.80
3.5	.1378	44	1 3/4	73	2 7/8	3600035	31.75	3601035	32.75
3.6	.1417	48	1 7/8	76	3	3600036	32.75	3601036	33.55
3.7	.1457	48	1 7/8	76	3	3600037	32.75	3601037	33.55
3.8	.1496	48	1 7/8	76	3	3600038	32.75	3601038	33.55
3.9	.1535	51	2	79	3 1/8	3600039	32.75	3601039	33.55
4.0	.1575	54	2 1/8	83	3 1/4	3600040	30.90	3601040	31.75
4.1	.1614	54	2 1/8	83	3 1/4	3600041	29.80	3601041	33.85
4.2	.1654	54	2 1/8	83	3 1/4	3600042	31.75	3601042	33.85
4.3	.1693	54	2 1/8	83	3 1/4	3600043	31.75	3601043	33.85
4.4	.1732	56	2 3/16	86	3 3/8	3600044	31.75	3601044	33.85
4.5	.1772	56	2 3/16	86	3 3/8	3600045	32.75	3601045	33.85
4.6	.1811	56	2 3/16	86	3 3/8	3600046	35.85	3601046	36.30
4.7	.1850	59	2 5/16	89	3 1/2	360213	30.40	360313	32.15
4.8	.1890	59	2 5/16	89	3 1/2	360212	31.75	360312	33.55
4.9	.1929	62	2 7/16	92	3 5/8	3600049	35.85	3601049	36.30
5.0	.1969	62	2 7/16	92	3 5/8	3600050	34.40	3601050	35.40
5.1	.2008	62	2 7/16	92	3 5/8	3600051	37.35	3601051	37.80
5.2	.2047	64	2 1/2	95	3 3/4	3600052	37.35	3601052	37.80
5.3	.2087	64	2 1/2	95	3 3/4	3600053	37.35	3601053	37.80
5.4	.2126	64	2 1/2	95	3 3/4	3600054	37.35	3601054	37.80
5.5	.2165	64	2 1/2	95	3 3/4	3600055	36.45	3601055	36.75
5.6	.2205	67	2 5/8	98	3 7/8	3600056	38.40	3601056	39.00
5.7	.2244	67	2 5/8	98	3 7/8	3600057	38.40	3601057	39.00
5.8	.2283	67	2 5/8	98	3 7/8	3600058	38.40	3601058	39.00
5.9	.2323	67	2 5/8	98	3 7/8	3600059	38.40	3601059	39.00
6.0	.2362	70	2 3/4	102	4	3600060	37.80	3601060	40.00
6.1	.2402	70	2 3/4	102	4	3600061	40.00	3601061	41.15
6.2	.2441	70	2 3/4	102	4	3600062	40.00	3601062	41.15
6.3	.2480	70	2 3/4	102	4	3600063	40.00	3601063	41.15
6.4	.2520	73	2 7/8	105	4 1/8	3600064	40.00	3601064	41.15
6.5	.2559	73	2 7/8	105	4 1/8	3600065	39.10	3601065	40.00
6.6	.2598	73	2 7/8	105	4 1/8	3600066	41.80	3601066	46.85
6.7	.2638	73	2 7/8	105	4 1/8	3600067	41.80	3601067	46.85
6.8	.2677	73	2 7/8	105	4 1/8	3600068	41.80	3601068	46.85
6.9	.2717	73	2 7/8	105	4 1/8	3600069	41.80	3601069	46.85
7.0	.2756	73	2 7/8	105	4 1/8	3600070	41.00	3601070	46.85
7.1	.2795	75	2 15/16	108	4 1/4	3600071	42.95	3601071	46.85
7.2	.2835	75	2 15/16	108	4 1/4	3600072	42.95	3601072	46.85
7.3	.2874	75	2 15/16	108	4 1/4	3600073	42.95	3601073	46.85
7.4	.2913	78	3 1/16	111	4 3/8	3600074	42.95	3601074	50.80
7.5	.2953	78	3 1/16	111	4 3/8	3600075	42.95	3601075	50.80
7.6	.2992	78	3 1/16	111	4 3/8	3600076	45.00	3601076	50.80
7.7	.3031	81	3 3/16	114	4 1/2	3600077	45.00	3601077	50.80
7.8	.3071	81	3 3/16	114	4 1/2	3600078	45.00	3601078	50.80
7.9	.3110	81	3 3/16	114	4 1/2	3600079	45.00	3601079	50.80
8.0	.3150	81	3 3/16	114	4 1/2	3600080	43.90	3601080	50.80
8.1	.3189	84	3 5/16	117	4 5/8	3600081	48.00	3601081	54.05
8.2	.3228	84	3 5/16	117	4 5/8	3600082	48.00	3601082	54.05
8.3	.3268	84	3 5/16	117	4 5/8	3600083	48.00	3601083	54.05
8.4	.3307	87	3 7/16	121	4 3/4	3600084	48.00	3601084	54.05
8.5	.3346	87	3 7/16	121	4 3/4	3600085	45.90	3601085	54.05
8.6	.3386	87	3 7/16	121	4 3/4	3600086	48.00	3601086	54.05
8.7	.3425	87	3 7/16	121	4 3/4	3600087	\$48.00	3601087	\$54.05
8.8	.3465	89	3 1/2	124	4 7/8	3600088	48.00	3601088	54.05
8.9	.3504	89	3 1/2	124	4 7/8	3600089	48.00	3601089	57.55
9.0	.3543	89	3 1/2	124	4 7/8	3600090	46.85	3601090	57.55
9.1	.3583	89	3 1/2	124	4 7/8	3600091	52.00	3601091	57.55
9.2	.3622	92	3 5/8	127	5	3600092	52.00	3601092	57.55
9.3	.3661	92	3 5/8	127	5	3600093	52.00	3601093	57.55
9.4	.3701	92	3 5/8	127	5	3600094	52.00	3601094	57.55
9.5	.3740	92	3 5/8	127	5	3600095	50.95	3601095	57.55
9.6	.3780	95	3 3/4	130	5 1/8	3600096	52.70	3601096	62.65
9.7	.3819	95	3 3/4	130	5 1/8	3600097	52.70	3601097	62.65
9.8	.3858	95	3 3/4	130	5 1/8	3600098	52.70	3601098	62.65
9.9	.3898	95	3 3/4	130	5 1/8	3600099	52.70	3601099	62.65
10.0	.3937	95	3 3/4	130	5 1/8	3600100	52.70	3601100	62.65
10.1	.3976	98	3 7/8	133	5 1/4	3600101	62.90	3601101	64.55
10.2	.4016	98	3 7/8	133	5 1/4	3600102	62.90	3601102	64.55
10.3	.4055	98	3 7/8	133	5 1/4	3600103	62.90	3601103	64.55
10.4	.4094	98	3 7/8	133	5 1/4	3600104	62.90	3601104	67.90
10.5	.4134	98	3 7/8	133	5 1/4	3600105	60.80	3601105	67.90
10.6	.4173	100	3 15/16	137	5 3/8	3600106	68.85	3601106	70.15
10.7	.4213	100	3 15/16	137	5 3/8	3600107	68.85	3601107	70.15
10.8	.4252	103	4 1/16	140	5 1/2	3600108	68.85	3601108	70.15
10.9	.4291	103	4 1/16	140	5 1/2	3600109	68.85	3601109	70.15
11.0	.4331	103	4 1/16	140	5 1/2	3600110	65.90	3601110	67.90
11.1	.4370	103	4 1/16	140	5 1/2	3600111	76.95	3601111	78.10
11.2	.4409	106	4 3/16	143	5 5/8	3600112	76.95	3601112	78.80
11.3	.4449	106	4 3/16	143	5 5/8	3600113	76.95	3601113	78.80
11.4	.4488	106	4 3/16	143	5 5/8	3600114	76.95	3601114	76.35
11.5	.4528	106	4 3/16	143	5 5/8	3600115	73.95	3601115	76.35
11.6	.4567	110	4 5/16	146	5 3/4	3600116	83.75	3601116	84.95
11.7	.4606	110	4 5/16	146	5 3/4	3600117	83.75	3601117	84.95
11.8	.4646	110	4 5/16	146	5 3/4	3600118	83.75	3601118	84.95
11.9	.4685	110	4 5/16	146	5 3/4	3600119	83.75	3601119	84.95
12.0	.4724	111	4 3/8	149	5 7/8	3600120	80.15	3601120	85.60
12.1	.4764	111	4 3/8	149	5 7/8	3600121	87.10	3601121	88.45
12.2	.4803	111	4 3/8	149	5 7/8	3600122	87.10	3601122	88.45
12.3	.4843	111	4 3/8	149	5 7/8	3600123	87.10	3601123	88.45
12.4	.4882	114	4 1/2	152	6	3600124	87.10	3601124	88.45
12.5	.4921	114	4 1/2	152	6	3600125	83.00	3601125	85.60
12.6	.4961	114	4 1/2	152	6	3600126	90.20	3601126	91.25
12.7	.5000	114	4 1/2	152	6	360032	76.60	360132	80.80
12.8	.5039	114	4 1/2	152	6	3600128	98.95	3601128	125.95
12.9	.5079	114	4 1/2	152	6	3600129	98.95	3601129	125.95
13.0	.5118	114	4 1/2	152	6	3600130	98.95	3601130	125.95
13.5	.5315	122	4 13/16	168	6 5/8	3600135	128.20	3601135	138.20
14.0	.5512	122	4 13/16	168	6 5/8	3600140	135.80	3601140	146.45
14.5	.5709	122	4 13/16	168	6 5/8	3600145	145.60	3601145	157.30
15.0	.5906	132	5 3/16	181	7 1/8	3600150	145.60	3601150	157.30
15.5	.6102	132	5 3/16	181	7 1/8	3600155	147.50	3601155	159.30
16.0	.6299	132	5 3/16	181	7 1/8	3600160	150.20	3601160	162.25
16.5	.6496	132	5 3/16	181	7 1/8	3600165	150.20	3601165	162.25
17.0	.6693	143	5 5/8	194	7 5/8	3600170	155.95	3601170	168.60
17.5	.6890	143	5 5/8	194	7 5/8	3600175	155.95	3601175	168.60
18.0	.7087	143	5 5/8	194	7 5/8	3600180	157.85	3601180	170.20
18.5	.7283	143	5 5/8	194	7 5/8	3600185	158.70	3601185	171.30
19.0	.7480	148	5 13/16	203	8	3600190	160.75	3601190	173.75
-	-	-	-	-	-	-	-	-	-

CARBIDE TIPPED TAPER LENGTH TWIST DRILLS

TYPE 3630 - TAPER LENGTH - 118° POINT

TYPE 3631 - TAPER LENGTH - 135° SPLIT POINT - DISCONTINUED WHILE SUPPLIES LAST

Carbide tip brazed to hardened tool steel bodies.

Smooth flutes for effective chip flow. Precision ground to ensure concentricity of tip & body. All tools are tapered. For drilling cast iron, non-ferrous metals and non-metals.
(Not usually recommended for drilling steel.)



For drill tolerances, see page 150.

Overall length tolerance: +1/4" / -1/8".

TOOL DIAMETER			LENGTH		118° POINT		135° POINT	
DECIMAL	FRACTION	WIRE LETTER	FLUTE	OVER-ALL	TYPE 3630 EDP NO.	PRICE EACH	TYPE 3631 EDP NO.	PRICE EACH
.1250	1/8		2 3/4	5 1/8	363008	\$32.75	363108	\$37.25
.1285		30	3	5 3/8	363230	45.80	363330	45.20
.1360		29	3	5 3/8	363229	45.80	363329	45.20
.1405		28	3	5 3/8	363228	45.80	363328	45.20
.1406	9/64		3	5 3/8	363009	37.80	363109	39.40
.1440		27	3	5 3/8	363227	45.80	363327	45.20
.1470		26	3	5 3/8	363226	45.80	363326	45.20
.1495		25	3	5 3/8	363225	45.80	363325	45.20
.1520		24	3	5 3/8	363224	45.80	363324	45.20
.1540		23	3	5 3/8	363223	45.80	363323	45.20
.1562	5/32		3	5 3/8	363010	34.80	363110	39.40
.1570		22	3 3/8	5 3/4	363222	47.50	363322	46.85
.1590		21	3 3/8	5 3/4	363221	47.50	363321	46.85
.1610		20	3 3/8	5 3/4	363220	47.50	363320	46.85
.1660		19	3 3/8	5 3/4	363219	47.50	363319	46.85
.1695		18	3 3/8	5 3/4	363218	47.50	363318	46.85
.1719	11/64		3 3/8	5 3/4	363011	35.40	363111	40.80
.1730		17	3 3/8	5 3/4	363217	47.50	363317	46.85
.1770		16	3 3/8	5 3/4	363216	47.50	363316	46.85
.1800		15	3 3/8	5 3/4	363215	47.50	363315	46.85
.1820		14	3 3/8	5 3/4	363214	47.50	363314	46.85
.1850		13	3 3/8	5 3/4	363213	47.50	363313	46.85
.1875	3/16		3 3/8	5 3/4	363012	35.40	363112	40.80
.1890		12	3 3/8	6	363212	50.05	363312	49.45
.1910		11	3 3/8	6	363211	50.05	363311	49.45
.1935		10	3 3/8	6	363210	50.05	363310	49.45
.1960		9	3 3/8	6	363209	50.05	363309	49.45
.1990		8	3 3/8	6	363208	50.05	363308	49.45
.2010		7	3 3/8	6	363207	50.05	363307	49.45
.2031	13/64		3 3/8	6	363013	37.50	363113	43.00
.2040		6	3 3/8	6	363206	50.05	363306	49.45
.2055		5	3 3/8	6	363205	50.05	363305	49.45
.2090		4	3 3/8	6	363204	50.05	363304	49.45
.2130		3	3 3/8	6	363203	50.05	363303	49.45
.2188	7/32		3 3/8	6	363014	37.50	363114	43.00
.2210		2	3 3/4	6 1/8	363202	56.70	363302	56.10
.2280		1	3 3/4	6 1/8	363201	56.70	363301	56.10
.2340		A	3 3/4	6 1/8	363401	56.70	363501	56.10
.2344	15/64		3 3/4	6 1/8	363015	42.50	363115	48.60
.2380		B	3 3/4	6 1/8	363402	56.70	363502	56.10
.2420		C	3 3/4	6 1/8	363403	56.70	363503	56.10
.2460		D	3 3/4	6 1/8	363404	56.70	363504	56.10
.2500	1/4		3 3/4	6 1/8	363016	42.50	363116	48.60
.2570		F	3 3/4	6 1/4	363406	63.45	363506	62.65
.2610		G	3 3/4	6 1/4	363407	63.45	363507	62.65
.2656	17/64		3 3/4	6 1/4	363017	47.50	363117	54.45
.2660		H	3 3/4	6 1/4	363408	63.45	363508	62.65
.2720		I	3 3/4	6 1/4	363409	63.45	363509	62.65
.2770		J	3 3/4	6 1/4	363410	63.45	363510	62.65
.2810		K	3 3/4	6 1/4	363411	63.45	363511	62.65
.2812	9/32		3 3/4	6 1/4	363018	47.50	363118	54.45
.2900		L	4	6 3/8	363412	68.80	363512	67.65
.2950		M	4	6 3/8	363413	68.80	363513	67.65
.2969	19/64		4	6 3/8	363019	51.20	363119	58.90
.3020		N	4	6 3/8	363414	68.80	363514	67.65
.3125	5/16		4	6 3/8	363020	51.20	363120	58.90
.3160		O	4 1/8	6 1/2	363415	\$78.00	363515	\$76.95
.3230		P	4 1/8	6 1/2	363416	78.00	363516	76.95
.3281	21/64		4 1/8	6 1/2	363021	56.40	363121	67.05
.3320		Q	4 1/8	6 1/2	363417	78.00	363517	76.95
.3390		R	4 1/8	6 1/2	363418	78.00	363518	76.95
.3438	11/32		4 1/8	6 1/2	363022	56.40	363122	67.65
.3480		S	4 1/4	6 3/4	363419	85.35	363519	84.30
.3580		T	4 1/4	6 3/4	363420	85.35	363520	84.30
.3594	23/64		4 1/4	6 3/4	363023	63.60	363123	73.35
.3680		U	4 1/4	6 3/4	363421	85.35	363521	84.30
.3750	3/8		4 1/4	6 3/4	363024	63.60	363124	73.35
.3770		V	4 3/8	7	363422	91.30	363522	90.25
.3860		W	4 3/8	7	363423	91.30	363523	90.25
.3906	25/64		4 3/8	7	363025	68.20	363125	78.55
.3970		X	4 3/8	7	363424	91.30	363524	90.25
.4040		Y	4 3/8	7	363425	91.30	363525	90.25
.4062	13/32		4 3/8	7	363026	68.20	363126	78.55
.4130		Z	4 3/8	7 1/4	363426	105.40	363526	103.85
.4219	27/64		4 3/8	7 1/4	363027	78.80	363127	90.25
.4375	7/16		4 3/8	7 1/4	363028	78.80	363128	90.25
.4531	29/64		4 3/4	7 1/2	363029	87.45	363129	101.60
.4688	15/32		4 3/4	7 1/2	363030	87.45	363130	101.60
.4844	31/64		4 3/4	7 3/4	363031	91.70	363131	104.95
.5000	1/2		4 3/4	7 3/4	363032	100.70	363132	104.95
.5156	33/64		4 3/4	8	363033	131.40	363133	150.50
.5312	17/32		4 3/4	8	363034	131.40	363134	150.50
.5469	35/64		4 7/8	8 1/4	363035	132.45	363135	151.80
.5625	9/16		4 7/8	8 1/4	363036	132.45	363136	151.80
.5781	37/64		4 7/8	8 3/4	363037	146.20	363137	167.85
.5938	19/32		4 7/8	8 3/4	363038	142.15	363138	163.00
.6094	39/64		4 7/8	8 3/4	363039	168.15	363139	192.65
.6250	5/8		4 7/8	8 3/4	363040	161.20	363140	184.55
.6406	41/64		5 1/8	9	363041	185.90	363141	213.20
.6562	21/32		5 1/8	9	363042	163.90	363142	187.70
.6719	43/64		5 3/8	9 1/4	363043	213.25	363143	244.50
.6875	11/16		5 3/8	9 1/4	363044	167.00	363144	191.35
.7031	45/64		5 3/8	9 1/2	363045	194.95	363145	214.25
.7188	23/32		5 3/8	9 1/2	363046	197.25	363146	216.35
.7344	47/64		5 7/8	9 3/4	363047	198.30	363147	217.60
.7500	3/4		5 7/8	9 3/4	363048	201.25	363148	220.90
.7656	49/64		6	9 7/8	363049	205.40	363149	225.50
.7812	25/32		6	9 7/8	363050	209.55	363150	230.15
.7969	51/64		6 1/8	10	363051	213.70	363151	234.80
.8125	13/16		6 1/8	10	363052	217.90	363152	239.45
.8281	53/64		6 1/8	10	363053	222.10	363153	244.05
.8438	27/32		6 1/8	10	363054	226.25	363154	248.65
.8594	55/64		6 1/8	10	363055	230.45	363155	253.25
.8750	7/8		6 1/8	10	363056	234.60	363156	257.95
.8906	57/64		6 1/8	10	363057	238.75	363157	262.55
.9062	29/32		6 1/8	10	363058	243.00	363158	267.15
.9219	59/64		6 1/8	10 3/4	363059	247.15	363159	271.80
.9375	15/16		6 1/8	10 3/4	363060	251.30	363160	276.40
.9531	61/64		6 3/8	11	363061	255.45	363161	281.10
.9688	31/32		6 3/8	11	363062	259.60	363162	285.70
.9844	63/64		6 3/8	11	363063	263.85	363163	290.30
1.0000	1		6 3/8	11	363064	268.00	363164	294.90

CARBIDE TIPPED TAPER LENGTH TWIST DRILLS

METRIC



TYPE 3630 - TAPER LENGTH - 118° POINT TYPE 3631 - TAPER LENGTH - 135° SPLIT POINT - DISCONTINUED WHILE SUPPLIES LAST

Because of the greater length, it increases the drill reach through drill bushings. Detailed description and fractional sizes on page 132.
(Not usually recommended for steel.)

For drill tolerances, see page 150.
Overall length tolerance: $\pm \frac{1}{4}"/-\frac{1}{8}"$.

TOOL DIAMETER		FLUTE LENGTH		OVERALL LENGTH		118° POINT		135° POINT	
mm	INCH	mm	INCH	mm	INCH	TYPE 3630 EDP NO.	PRICE EACH	TYPE 3631 EDP NO.	PRICE EACH
3.2	.1260	76	3	137	5 3/8	3630032	\$42.25	3631032	\$41.65
3.3	.1299	76	3	137	5 3/8	3630033	42.25	3631033	41.65
3.4	.1339	76	3	137	5 3/8	3630034	42.25	3631034	41.65
3.5	.1378	76	3	137	5 3/8	3630035	41.00	3631035	40.75
3.6	.1417	76	3	137	5 3/8	3630036	41.00	3631036	40.75
3.7	.1457	76	3	137	5 3/8	3630037	41.00	3631037	40.75
3.8	.1496	76	3	137	5 3/8	3630038	41.00	3631038	40.75
3.9	.1535	76	3	137	5 3/8	3630039	41.00	3631039	40.75
4.0	.1575	86	3 3/8	146	5 3/4	3630040	40.05	3631040	39.60
4.1	.1614	86	3 3/8	146	5 3/4	3630041	42.25	3631041	41.65
4.2	.1654	86	3 3/8	146	5 3/4	3630042	42.25	3631042	41.65
4.3	.1693	86	3 3/8	146	5 3/4	3630043	42.25	3631043	41.65
4.4	.1732	86	3 3/8	146	5 3/4	3630044	44.60	3631044	43.85
4.5	.1772	86	3 3/8	146	5 3/4	3630045	44.60	3631045	43.85
4.6	.1811	86	3 3/8	146	5 3/4	3630046	44.60	3631046	43.85
4.7	.1850	86	3 3/8	146	5 3/4	363213	47.50	363313	46.85
4.8	.1890	92	3 5/8	152	6	363212	50.05	363312	49.45
4.9	.1929	92	3 5/8	152	6	3630049	44.60	3631049	43.85
5.0	.1969	92	3 5/8	152	6	3630050	44.40	3631050	43.85
5.1	.2008	92	3 5/8	152	6	3630051	46.20	3631051	45.65
5.2	.2047	92	3 5/8	152	6	3630052	39.75	3631052	45.65
5.3	.2087	92	3 5/8	152	6	3630053	46.20	3631053	45.65
5.4	.2126	92	3 5/8	152	6	3630054	46.20	3631054	45.65
5.5	.2165	92	3 5/8	152	6	3630055	47.35	3631055	45.65
5.6	.2205	95	3 3/4	156	6 1/8	3630056	46.20	3631056	45.65
5.7	.2244	95	3 3/4	156	6 1/8	3630057	46.20	3631057	45.65
5.8	.2283	95	3 3/4	156	6 1/8	3630058	46.20	3631058	45.65
5.9	.2323	95	3 3/4	156	6 1/8	3630059	48.15	3631059	47.70
6.0	.2362	95	3 3/4	156	6 1/8	3630060	49.15	3631060	49.50
6.1	.2402	95	3 3/4	156	6 1/8	3630061	51.35	3631061	50.50
6.2	.2441	95	3 3/4	156	6 1/8	3630062	51.35	3631062	50.50
6.3	.2480	95	3 3/4	156	6 1/8	3630063	51.35	3631063	50.50
6.4	.2520	98	3 7/8	159	6 1/4	3630064	56.40	3631064	55.65
6.5	.2559	98	3 7/8	159	6 1/4	3630065	50.95	3631065	55.65
6.6	.2598	98	3 7/8	159	6 1/4	3630066	58.15	3631066	57.15
6.7	.2638	98	3 7/8	159	6 1/4	3630067	58.15	3631067	57.15
6.8	.2677	98	3 7/8	159	6 1/4	3630068	58.15	3631068	57.15
6.9	.2717	98	3 7/8	159	6 1/4	3630069	58.15	3631069	57.15
7.0	.2756	98	3 7/8	159	6 1/4	3630070	53.15	3631070	55.65
7.1	.2795	98	3 7/8	159	6 1/4	3630071	58.15	3631071	57.15
7.2	.2835	102	4	162	6 3/8	3630072	58.15	3631072	57.15
7.3	.2874	102	4	162	6 3/8	3630073	58.15	3631073	57.15
7.4	.2913	102	4	162	6 3/8	3630074	58.15	3631074	57.15
7.5	.2953	102	4	162	6 3/8	3630075	56.30	3631075	60.20
7.6	.2992	102	4	162	6 3/8	3630076	60.85	3631076	60.20
7.7	.3031	102	4	162	6 3/8	3630077	60.85	3631077	60.20
7.8	.3071	102	4	162	6 3/8	3630078	60.85	3631078	60.20
7.9	.3110	102	4	162	6 3/8	3630079	60.85	3631079	60.20
8.0	.3150	105	4 1/8	165	6 1/2	3630080	57.15	3631080	60.20
8.1	.3189	105	4 1/8	165	6 1/2	3630081	60.85	3631081	60.20
8.2	.3228	105	4 1/8	165	6 1/2	3630082	64.85	3631082	63.90
8.3	.3268	105	4 1/8	165	6 1/2	3630083	64.85	3631083	63.90
8.4	.3307	105	4 1/8	165	6 1/2	3630084	64.85	3631084	63.90
8.5	.3346	105	4 1/8	165	6 1/2	3630085	59.90	3631085	68.10
8.6	.3386	105	4 1/8	165	6 1/2	3630086	\$69.10	3631086	\$68.10
8.7	.3425	105	4 1/8	165	6 1/2	3630087	69.10	3631087	68.10
8.8	.3465	108	4 1/4	171	6 3/4	3630088	69.10	3631088	68.10
8.9	.3504	108	4 1/4	171	6 3/4	3630089	69.10	3631089	68.10
9.0	.3543	108	4 1/4	171	6 3/4	3630090	64.70	3631090	74.75
9.1	.3583	108	4 1/4	171	6 3/4	3630091	75.70	3631091	74.75
9.2	.3622	108	4 1/4	171	6 3/4	3630092	75.70	3631092	74.75
9.3	.3661	108	4 1/4	171	6 3/4	3630093	75.70	3631093	74.75
9.4	.3701	108	4 1/4	171	6 3/4	3630094	75.70	3631094	74.75
9.5	.3740	108	4 1/4	171	6 3/4	3630095	66.25	3631095	74.75
9.6	.3780	111	4 3/8	178	7	3630096	79.45	3631096	78.40
9.7	.3819	111	4 3/8	178	7	3630097	79.45	3631097	78.40
9.8	.3858	111	4 3/8	178	7	3630098	79.45	3631098	78.40
9.9	.3898	111	4 3/8	178	7	3630099	79.45	3631099	78.40
10.0	.3937	111	4 3/8	178	7	3630100	69.70	3631100	80.30
10.1	.3976	111	4 3/8	178	7	3630101	81.35	3631101	80.30
10.2	.4016	111	4 3/8	178	7	3630102	84.80	3631102	83.60
10.3	.4055	111	4 3/8	178	7	3630103	84.80	3631103	83.60
10.4	.4094	117	4 5/8	184	7 1/4	3630104	88.60	3631104	87.15
10.5	.4134	117	4 5/8	184	7 1/4	3630105	79.30	3631105	87.15
10.6	.4173	117	4 5/8	184	7 1/4	3630106	92.85	3631106	91.65
10.7	.4213	117	4 5/8	184	7 1/4	3630107	92.85	3631107	91.65
10.8	.4252	117	4 5/8	184	7 1/4	3630108	92.85	3631108	91.65
10.9	.4291	117	4 5/8	184	7 1/4	3630109	92.85	3631109	91.65
11.0	.4331	117	4 5/8	184	7 1/4	3630110	85.75	3631110	92.00
11.5	.4528	121	4 3/4	190	7 1/2	3630115	96.25	3631115	101.75
12.0	.4724	121	4 3/4	197	7 3/4	3630120	105.30	3631120	107.05
12.5	.4921	121	4 3/4	197	7 3/4	3630125	109.25	3631125	107.05
13.0	.5118	121	4 3/4	203	8	3630130	131.40	3631130	150.50
13.5	.5315	121	4 3/4	203	8	3630135	132.45	3631135	151.80
14.0	.5512	124	4 7/8	210	8 1/4	3630140	132.45	3631140	151.80
14.5	.5709	124	4 7/8	222	8 3/4	3630145	146.20	3631145	167.85
15.0	.5906	124	4 7/8	222	8 3/4	3630150	146.20	3631150	167.85
15.5	.6102	124	4 7/8	222	8 3/4	3630155	168.15	3631155	192.65
16.0	.6299	130	5 1/8	229	9	3630160	185.90	3631160	213.20
16.5	.6496	130	5 1/8	229	9	3630165	185.90	3631165	213.20
17.0	.6693	137	5 3/8	235	9 1/4	3630170	213.25	3631170	244.50
17.5	.6890	143	5 5/8	241	9 1/2	3630175	194.95	3631175	214.25
18.0	.7087	143	5 5/8	241	9 1/2	3630180	197.25	3631180	216.35
18.5	.7283	149	5 7/8	248	9 3/4	3630185	198.30	3631185	217.60
19.0	.7480	149	5 7/8	248	9 3/4	3630190	201.25	3631190	220.90
19.5	.7677	152	6	251	9 7/8	3630195	209.55	3631195	230.15
20.0	.7874	156	6 1/8	254	10	3630200	213.70	3631200	234.80
20.5	.8071	156	6 1/8	254	10	3630205	217.90	3631205	239.45
21.0	.8268	156	6 1/8	254	10	3630210	222.10	3631210	244.05
21.5	.8465	156	6 1/8	254	10	3630215	230.45	3631215	253.25
22.0	.8661	156	6 1/8	254	10	3630220	234.60	3631220	257.95
22.5	.8858	156	6 1/8	254	10	3630225	238.75	3631225	262.55
23.0	.9055	156	6 1/8	254	10	3630230	243.00	3631230	267.15
23.5	.9252	156	6 1/8	273	10 3/4	3630235	251.30	3631235	276.40
24.0	.9449	162	6 3/8	279	11	3630240	255.45	3631240	281.10
24.5	.9646	162	6 3/8	279	11	3630245	259.60	3631245	285.70
25.0	.9843	162	6 3/8	279	11	3630250	263.85	3631250	290.30
-	-	-	-	-	-	-	-	-	-

CARBIDE TIPPED STUB LENGTH TWIST DRILLS

TYPE 3640 - STUB LENGTH - 118° POINT

TYPE 3641 - STUB LENGTH - 135° SPLIT POINT

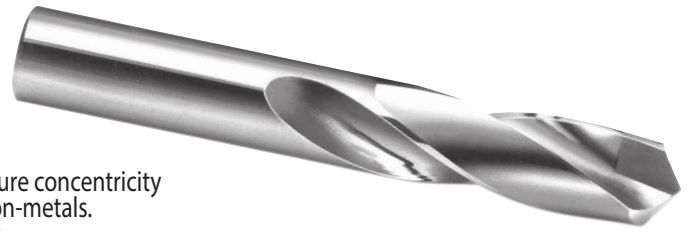
Carbide tip brazed to hardened tool steel bodies.

Smooth flutes for effective chip flow. Precision ground to ensure concentricity of tip & body. For drilling cast iron, non-ferrous metals and non-metals.

Excellent starting drill. Ideal for exact location shallow drilling.

(Not usually recommended for drilling steel.)

For drill tolerances, see page 150.



TOOL DIAMETER			LENGTH		118° POINT		135° POINT	
DECIMAL	FRACTION	WIRE LETTER	FLUTE	OVER-ALL	TYPE 3640 EDP NO.	PRICE EACH	TYPE 3641 EDP NO.	PRICE EACH
.1160		32	7/8	1 7/8	364232	\$36.75	364332	\$40.80
.1200		31	7/8	1 7/8	364231	36.75	364331	40.80
.1250	1/8		7/8	1 7/8	364008	27.60	364108	29.80
.1285		30	15/16	1 15/16	364230	38.95	364330	42.95
.1360		29	15/16	1 15/16	364229	38.95	364329	42.95
.1405		28	15/16	1 15/16	364228	38.95	364328	42.95
.1406	9/64		15/16	1 15/16	364009	33.40	364109	39.30
.1440		27	1	2 1/16	364227	38.95	364327	42.95
.1470		26	1	2 1/16	364226	38.95	364326	42.95
.1495		25	1	2 1/16	364225	38.95	364325	42.95
.1520		24	1	2 1/16	364224	38.95	364324	42.95
.1540		23	1	2 1/16	364223	38.95	364323	42.95
.1562	5/32		1	2 1/16	364010	29.20	364110	31.75
.1570		22	1 1/16	2 7/8	364222	38.95	364322	42.95
.1590		21	1 1/16	2 7/8	364221	38.95	364321	42.95
.1610		20	1 1/16	2 7/8	364220	45.20	364320	50.35
.1660		19	1 1/16	2 7/8	364219	45.20	364319	50.35
.1695		18	1 1/16	2 7/8	364218	45.20	364318	50.35
.1719	11/64		1 1/16	2 7/8	364011	39.75	364111	42.70
.1730		17	1 1/16	2 3/4	364217	46.10	364317	51.20
.1770		16	1 1/8	2 3/4	364216	46.10	364316	51.20
.1800		15	1 1/8	2 3/4	364215	46.10	364315	51.20
.1820		14	1 1/8	2 3/4	364214	46.10	364314	51.20
.1850		13	1 1/8	2 3/4	364213	46.10	364313	51.20
.1875	3/16		1 1/8	2 3/4	364012	30.70	364112	33.65
.1890		12	1 3/16	2 1/4	364212	45.80	364312	50.80
.1910		11	1 3/16	2 1/4	364211	45.80	364311	50.80
.1935		10	1 3/16	2 1/4	364210	45.80	364310	50.80
.1960		9	1 3/16	2 1/4	364209	45.80	364309	50.80
.1990		8	1 3/16	2 1/4	364208	45.80	364308	50.80
.2010		7	1 3/16	2 1/4	364207	40.20	364307	48.25
.2031	13/64		1 3/16	2 1/4	364013	39.75	364113	42.70
.2040		6	1 1/4	2 3/8	364206	46.10	364306	51.20
.2055		5	1 1/4	2 3/8	364205	46.10	364305	51.20
.2090		4	1 1/4	2 3/8	364204	46.10	364304	51.20
.2130		3	1 1/4	2 3/8	364203	40.20	364303	48.25
.2188	7/32		1 1/4	2 3/8	364014	33.05	364114	36.60
.2210		2	1 5/16	2 7/16	364202	45.80	364302	50.80
.2280		1	1 5/16	2 7/16	364201	40.20	364301	50.80
.2340		A	1 5/16	2 7/16	364401	45.80	364501	50.80
.2344	15/64		1 5/16	2 7/16	364015	36.60	364115	43.70
.2380		B	1 3/8	2 1/2	364402	45.80	364502	50.80
.2420		C	1 3/8	2 1/2	364403	45.80	364503	50.80
.2460		D	1 3/8	2 1/2	364404	40.20	364504	48.25
.2500	1/4		E	1 3/8	364016	33.55	364116	38.70
.2570		F	1 7/16	2 5/8	364406	46.80	364506	56.25
.2610		G	1 7/16	2 5/8	364407	46.80	364507	56.25
.2656	17/64		1 7/16	2 5/8	364017	40.80	364117	48.45
.2660		H	1 1/2	2 11/16	364408	45.30	364508	58.80
.2720		I	1 1/2	2 11/16	364409	46.80	364509	56.25
.2770		J	1 1/2	2 11/16	364410	52.90	364510	58.80
.2810		K	1 1/2	2 11/16	364411	52.90	364511	58.80
.2812	9/32		1 1/2	2 11/16	364018	38.65	364118	45.00
.2900		L	1 5/8	2 3/4	364412	54.60	364512	60.50
.2950		M	1 5/8	2 3/4	364413	54.60	364513	60.50
.2969	19/64		1 5/8	2 3/4	364019	46.80	364119	55.40
.3020		N	1 5/8	2 13/16	364414	62.60	364514	69.70
.3125	5/16		1 5/8	2 13/16	364020	41.15	364120	47.95
.3160		O	1 11/16	2 15/16	364415	57.60	364515	69.50
.3230		P	1 11/16	2 15/16	364416	65.45	364516	72.75
.3281	21/64		1 11/16	2 15/16	364021	50.80	364121	58.95

TOOL DIAMETER			LENGTH		118° POINT		135° POINT	
DECIMAL	FRACTION	WIRE LETTER	FLUTE	OVER-ALL	TYPE 3640 EDP NO.	PRICE EACH	TYPE 3641 EDP NO.	PRICE EACH
.3320		Q	1 11/16	3	364417	\$57.60	364517	\$69.50
.3390		R	1 11/16	3	364418	57.60	364518	69.50
.3438	11/32		1 11/16	3	364022	48.00	364122	55.40
.3480		S	1 3/4	3 1/16	364419	66.15	364519	73.55
.3580		T	1 3/4	3 1/16	364420	66.15	364520	73.55
.3594	23/64		1 3/4	3 1/16	364023	52.30	364123	60.85
.3680		U	1 13/16	3 1/8	364421	59.25	364521	71.20
.3750	3/8		1 13/16	3 1/8	364024	49.15	364124	56.85
.3770		V	1 7/8	3 1/4	364422	76.30	364522	84.65
.3860		W	1 7/8	3 1/4	364423	67.30	364523	80.90
.3906	25/64		1 7/8	3 1/4	364025	58.20	364125	67.65
.3970		X	1 15/16	3 3/8	364424	67.30	364524	84.65
.4040		Y	1 15/16	3 3/8	364425	76.30	364525	84.65
.4062	13/32		1 15/16	3 3/8	364026	58.20	364126	67.65
.4130		Z	2	3 3/8	364426	86.70	364526	96.45
.4219	27/64		2	3 3/8	364027	64.55	364127	73.55
.4375	7/16		2 1/16	3 7/16	364028	62.30	364128	69.10
.4531	29/64		2 1/8	3 9/16	364029	83.00	364129	106.65
.4688	15/32		2 1/8	3 9/16	364030	88.60	364130	103.05
.4844	31/64		2 3/16	3 11/16	364031	79.45	364131	102.15
.5000	1/2		2 1/4	3 3/4	364032	84.80	364132	98.60
.5156	33/64		2 3/8	3 7/8	364033	126.55	364133	140.90
.5312	17/32		2 3/8	3 7/8	364034	105.70	364134	119.30
.5469	35/64		2 1/2	4	364035	126.55	364135	140.90
.5625	9/16		2 1/2	4	364036	105.70	364136	119.30
.5781	37/64		2 5/8	4 1/8	364037	147.80	364137	164.35
.5938	19/32		2 5/8	4 1/8	364038	121.20	364138	136.70
.6094	39/64		2 3/4	4 1/4	364039	147.80	364139	164.35
.6250	5/8		2 3/4	4 1/4	364040	121.20	364140	136.70
.6406	41/64		2 7/8	4 1/2	364041	176.45	364141	196.35
.6562	21/32		2 7/8	4 1/2	364042	145.70	364142	164.50
.6719	43/64		2 7/8	4 5/8	364043	180.90	364143	201.10
.6875	11/16		2 7/8	4 5/8	364044	149.70	364144	168.75
.7031	45/64		3	4 3/4	364045	204.50	364145	227.20
.7188	23/32		3	4 3/4	364046	169.50	364146	196.85
.7344	47/64		3 1/8	5	364047	204.70	364147	227.80
.7500	3/4		3 1/8	5	364048	170.10	364148	191.50
.7656	49/64		3 1/4	5 1/8	364049	219.00	364149	243.75
.7812	25/32		3 1/4	5 1/8	364050	210.10	364150	243.90
.7969	51/64		3 3/8	5 1/4	364051	245.10	364151	272.70
.8125	13/16		3 3/8	5 1/4	364052	210.30	364152	237.15
.8281	53/64		3 1/2	5 3/8	364053	240.25	364153	267.00
.8438	27/32		3 1/2	5 3/8	364054	230.15	364154	267.30
.8594	55/64		3 1/2	5 1/2	364055	269.00	364155	299.20
.8750	7/8		3 1/2	5 1/2	364056	230.75	364156	260.00
.8906	57/64		3 5/8	5 5/8	364057	258.00	364157	286.85
.9062	29/32		3 5/8	5 5/8	364058	247.35	364158	287.00
.9219	59/64		3 3/4	5 3/4	364059	288.65	364159	321.20
.9375	15/16		3 3/4	5 3/4	364060	247.65	364160	279.25
.9531	61/64		3 7/8	5 7/8	364061	288.65	364161	321.20
.9688	31/32		3 7/8	5 7/8	364062	261.25	364162	303.40
.9844	63/64		4	6	364063	305.20	364163	339.60
1.0000	1		4	6	364064	261.65	364164	295.20
1.0312	1 1/32*		4	6 1/4	364066	382.40	364166	425.15
1.0625	1 1/16*		4	6 1/4	364068	327.65	364168	369.75
1.0938	1 3/32*		4	6 3/8	364070	424.25	364170	472.05
1.1250	1 1/8*		4	6 3/8	364072	363.85	364172	410.15
1.1562	1 5/32*		4 1/4	6 3/8	364074	517.85	364174	576.20
1.1875	1 3/16*		4 1/4	6 3/8	364076	444.15	364176	497.75
1.2188	1 7/32*		4 3/8	6 3/4	364078	517.85	364178	576.20
1.2500	1 1/4*		4 3/8	6 3/4	364080	444.15	364180	497.75

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CARBIDE TIPPED STUB LENGTH TWIST DRILLS

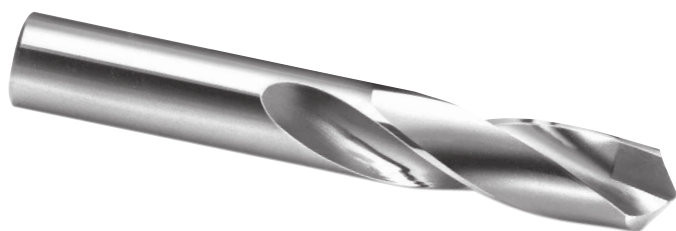
METRIC

DISCONTINUED - WHILE SUPPLIES LAST

TYPE 3640 - STUB LENGTH - 118° POINT

TYPE 3641 - STUB LENGTH - 135° SPLIT POINT

Detailed description and fractional sizes on page 134.



While Supplies Last.

TOOL DIAMETER		FLUTE LENGTH		OVERALL LENGTH		118° POINT		135° POINT	
mm	INCH	mm	INCH	mm	INCH	TYPE 3640 EDP NO.	PRICE EACH	TYPE 3641 EDP NO.	PRICE EACH
3.0	.1181	22	7/8	48	1 7/8	3640030	\$36.60	3641030	\$40.30
3.1	.1220	22	7/8	48	1 7/8	3640031	36.60	3641031	40.30
3.2	.1260	24	15/16	49	1 15/16	3640032	36.60	3641032	40.30
3.3	.1299	24	15/16	49	1 15/16	3640033	36.60	3641033	40.30
3.4	.1339	24	15/16	49	1 15/16	3640034	36.60	3641034	40.30
3.5	.1378	24	15/16	49	1 15/16	3640035	31.30	3641035	35.85
3.6	.1417	25	1	52	2 1/16	3640036	36.60	3641036	40.30
3.7	.1457	25	1	52	2 1/16	3640037	36.60	3641037	40.30
3.8	.1496	25	1	52	2 1/16	3640038	36.60	3641038	40.30
3.9	.1535	25	1	52	2 1/16	3640039	36.60	3641039	40.30
4.0	.1575	27	1 1/16	54	2 1/8	3640040	31.30	3641040	35.90
4.1	.1614	27	1 1/16	54	2 1/8	3640041	43.60	3641041	48.00
4.2	.1654	27	1 1/16	54	2 1/8	3640042	43.60	3641042	48.00
4.3	.1693	27	1 1/16	54	2 1/8	3640043	43.60	3641043	48.00
4.4	.1732	29	1 1/8	56	2 3/16	3640044	43.60	3641044	48.00
4.5	.1772	29	1 1/8	56	2 3/16	3640045	37.25	3641045	42.80
4.6	.1811	29	1 1/8	56	2 3/16	3640046	43.60	3641046	48.00
4.7	.1850	29	1 1/8	56	2 3/16	364213	46.10	364313	51.20
4.8	.1890	30	1 3/16	57	2 1/4	364212	45.80	364312	50.80
4.9	.1929	30	1 3/16	57	2 1/4	3640049	43.60	3641049	48.00
5.0	.1969	30	1 3/16	57	2 1/4	3640050	37.25	3641050	42.80
5.1	.2008	30	1 3/16	57	2 1/4	3640051	43.60	3641051	48.00
5.2	.2047	32	1 1/4	60	2 3/8	3640052	43.60	3641052	48.00
5.3	.2087	32	1 1/4	60	2 3/8	3640053	43.60	3641053	48.00
5.4	.2126	32	1 1/4	60	2 3/8	3640054	43.60	3641054	48.00
5.5	.2165	32	1 1/4	60	2 3/8	3640055	37.25	3641055	42.80
5.6	.2205	33	1 1/8	62	2 7/16	3640056	43.60	3641056	48.00
5.7	.2244	33	1 1/8	62	2 7/16	3640057	43.60	3641057	48.00
5.8	.2283	33	1 1/8	62	2 7/16	3640058	43.60	3641058	48.00
5.9	.2323	33	1 1/8	62	2 7/16	3640059	43.60	3641059	48.00
6.0	.2362	35	1 3/8	64	2 1/2	3640060	34.85	3641060	39.90
6.1	.2402	35	1 3/8	64	2 1/2	3640061	45.00	3641061	49.90
6.2	.2441	35	1 3/8	64	2 1/2	3640062	45.00	3641062	49.90
6.3	.2480	35	1 3/8	64	2 1/2	3640063	45.00	3641063	49.90
6.4	.2520	37	1 7/16	67	2 5/8	3640064	45.00	3641064	49.90
6.5	.2559	37	1 7/16	67	2 5/8	3640065	38.65	3641065	44.30
6.6	.2598	37	1 7/16	67	2 5/8	3640066	45.00	3641066	49.90
6.7	.2638	37	1 7/16	67	2 5/8	3640067	45.00	3641067	49.90
6.8	.2677	38	1 1/2	68	2 11/16	3640068	45.00	3641068	49.90
6.9	.2717	38	1 1/2	68	2 11/16	3640069	45.00	3641069	49.90
7.0	.2756	38	1 1/2	68	2 11/16	3640070	38.65	3641070	44.30
7.1	.2795	38	1 1/2	68	2 11/16	3640071	45.00	3641071	49.90
7.2	.2835	40	1 5/8	70	2 3/4	3640072	51.70	3641072	57.10
7.3	.2874	40	1 5/8	70	2 3/4	3640073	51.70	3641073	57.10
7.4	.2913	40	1 5/8	70	2 3/4	3640074	51.70	3641074	57.10
7.5	.2953	40	1 5/8	70	2 3/4	3640075	44.40	3641075	50.65
7.6	.2992	41	1 5/8	71	2 13/16	3640076	51.70	3641076	57.10
7.7	.3031	41	1 5/8	71	2 13/16	3640077	51.70	3641077	57.10
7.8	.3071	41	1 5/8	71	2 13/16	3640078	51.70	3641078	57.10
7.9	.3110	41	1 5/8	71	2 13/16	3640079	51.70	3641079	57.10
8.0	.3150	43	1 11/16	75	2 15/16	3640080	44.40	3641080	50.65

While Supplies Last.

For drill tolerances, see page 150.

TOOL DIAMETER		FLUTE LENGTH		OVERALL LENGTH		118° POINT		135° POINT	
mm	INCH	mm	INCH	mm	INCH	TYPE 3640 EDP NO.	PRICE EACH	TYPE 3641 EDP NO.	PRICE EACH
8.1	.3189	43	1 11/16	75	2 15/16	3640081	\$55.65	3641081	\$60.95
8.2	.3228	43	1 11/16	75	2 15/16	3640082	55.65	3641082	60.95
8.3	.3268	43	1 11/16	75	2 15/16	3640083	55.65	3641083	60.95
8.4	.3307	43	1 11/16	76	3	3640084	55.65	3641084	60.95
8.5	.3346	43	1 11/16	76	3	3640085	47.70	3641085	53.90
8.6	.3386	43	1 11/16	76	3	3640086	55.65	3641086	60.95
8.7	.3425	43	1 11/16	76	3	3640087	55.65	3641087	62.30
8.8	.3465	44	1 3/4	78	3 1/8	3640088	56.55	3641088	62.30
8.9	.3504	44	1 3/4	78	3 1/8	3640089	56.55	3641089	62.30
9.0	.3543	44	1 3/4	78	3 1/8	3640090	48.55	3641090	55.65
9.1	.3583	44	1 3/4	78	3 1/8	3640091	56.55	3641091	62.30
9.2	.3622	46	1 13/16	79	3 1/8	3640092	56.55	3641092	62.30
9.3	.3661	46	1 13/16	79	3 1/8	3640093	56.55	3641093	62.30
9.4	.3701	46	1 13/16	79	3 1/8	3640094	56.55	3641094	62.30
9.5	.3740	46	1 13/16	79	3 1/8	3640095	48.55	3641095	55.65
9.6	.3780	48	1 7/8	83	3 1/4	3640096	62.90	3641096	69.40
9.7	.3819	48	1 7/8	83	3 1/4	3640097	62.90	3641097	69.40
9.8	.3858	48	1 7/8	83	3 1/4	3640098	62.90	3641098	69.40
9.9	.3898	48	1 7/8	83	3 1/4	3640099	62.90	3641099	69.40
10.0	.3937	49	1 15/16	84	3 3/8	3640100	54.00	3641100	61.75
10.5	.4134	51	2	86	3 3/8	3640105	60.35	3641105	67.20
11.0	.4331	52	2 1/16	87	3 3/8	3640110	60.35	3641110	67.20
11.5	.4528	54	2 1/8	90	3 5/8	3640115	84.90	3641115	94.05
12.0	.4724	56	2 1/4	94	3 7/8	3640120	81.20	3641120	90.10
12.5	.4921	57	2 1/4	95	3 3/4	3640125	81.20	3641125	90.10
13.0	.5118	60	2 3/8	98	3 7/8	3640130	100.30	3641130	108.95
13.5	.5315	60	2 3/8	98	3 7/8	3640135	98.45	3641135	108.95
14.0	.5512	64	2 1/2	102	4	3640140	98.45	3641140	108.95
14.5	.5709	67	2 5/8	105	4 1/8	3640145	138.65	3641145	152.80
15.0	.5906	67	2 5/8	105	4 1/8	3640150	138.65	3641150	152.80
15.5	.6102	70	2 3/4	108	4 1/4	3640155	156.35	3641155	172.35
16.0	.6299	73	2 7/8	114	4 1/2	3640160	176.15	3641160	194.20
16.5	.6496	73	2 7/8	114	4 1/2	3640165	176.15	3641165	194.20
17.0	.6693	73	2 7/8	117	4 3/4	3640170	176.15	3641170	194.20
17.5	.6890	76	3	121	4 3/4	3640175	194.30	3641175	214.10
18.0	.7087	76	3	121	4 3/4	3640180	194.30	3641180	214.10
18.5	.7283	79	3 1/8	127	5	3640185	212.30	3641185	234.00
19.0	.7480	79	3 1/8	127	5	3640190	212.30	3641190	234.00
19.5	.7677	83	3 1/4	130	5 1/8	3640195	234.80	3641195	258.85
20.0	.7874	86	3 3/8	133	5 1/4	3640200	262.55	3641200	289.10
20.5	.8071	86	3 3/8	133	5 1/4	3640205	262.55	3641205	289.10
21.0	.8268	89	3 1/2	137	5 3/8	3640210	288.20	3641210	317.45
21.5	.8465	89	3 1/2	140	5 1/2	3640215	288.20	3641215	317.45
22.0	.8661	89	3 1/2	140	5 1/2	3640220	288.20	3641220	317.45
22.5	.8858	92	3 5/8	143	5 3/8	3640225	296.60	3641225	326.65
23.0	.9055	92	3 5/8	143	5 3/8	3640230	296.60	3641230	326.65
23.5	.9252	95	3 3/4	146	5 3/4	3640235	303.90	3641235	334.70
24.0	.9449	98	3 7/8	149	5 7/8	3640240	309.50	3641240	341.20
24.5	.9646	98	3 7/8	149	5 7/8	3640245	309.50	3641245	341.20
25.0	.9843	102	4	152	6	3640250	326.95	3641250	359.85
-	-	-	-	-	-	-	-	-	-

CARBIDE TIPPED TAPER SHANK TWIST DRILLS

TYPE 3660 - TAPER SHANK - 118° POINT TYPE 3661 - TAPER SHANK - 135° SPLIT POINT

Carbide tip brazed to hardened tool steel bodies. Smooth flutes for effective chip flow. Precision ground to ensure concentricity of tip & body. For drilling cast iron, non-ferrous metals and non-metals. (Not usually recommended for drilling steel.)

DISCONTINUED - WHILE SUPPLIES LAST

For drill tolerances, see page 150.



TOOL DIAMETER		MORSE TAPER	LENGTH		118° POINT		135° POINT	
DECIMAL	FRACTIONAL		FLUTE	OVER-ALL	TYPE 3660 EDP NO.	PRICE EACH	TYPE 3661 EDP NO.	PRICE EACH
.2500	1/4	1	2 7/8	6 1/8	366016	\$75.45	366116	\$85.60
.2656	17/64	1	3	6 1/4	366017	N/A	366117	N/A
.2812	9/32	1	3	6 1/4	366018	N/A	366118	N/A
.2969	19/64	1	3 1/8	6 3/8	366019	N/A	366119	N/A
.3125	5/16	1	3 1/8	6 3/8	366020	77.20	366120	87.45
.3281	21/64	1	3 1/4	6 1/2	366021	98.30	366121	111.05
.3438	11/32	1	3 1/4	6 1/2	366022	98.30	366122	111.05
.3594	23/64	1	3 1/2	6 3/4	366023	98.30	366123	111.05
.3750	3/8	1	3 1/2	6 3/4	366024	98.30	366124	111.05
.3906	25/64	1	3 5/8	7	366025	113.70	366125	128.80
.4062	13/32	1	3 5/8	7	366026	113.70	366126	128.80
.4219	27/64	1	3 7/8	7 1/4	366027	113.70	366127	128.80
.4375	7/16	1	3 7/8	7 1/4	366028	99.40	366128	112.80
.4531	29/64	1	4 1/8	7 1/2	366029	120.80	366129	137.00
.4688	15/32	1	4 1/8	7 1/2	366030	120.80	366130	137.00
.4844	31/64	2	4 3/8	8 1/4	366031	120.80	366131	137.00
.5000	1/2	2	4 3/8	8 1/4	366032	95.10	366132	126.65
.5156	33/64	2	4 3/8	8 1/2	366033	122.75	366133	147.35
.5312	17/32	2	4 3/8	8 1/2	366034	100.30	366134	130.25
.5469	35/64	2	4 7/8	8 3/4	366035	124.60	366135	149.40
.5625	9/16	2	4 7/8	8 3/4	366036	101.15	366136	132.05
.5781	37/64	2	4 7/8	8 3/4	366037	130.25	366137	156.50
.5938	19/32	2	4 7/8	8 3/4	366038	111.60	366138	146.15
.6094	39/64	2	4 7/8	8 3/4	366039	150.95	366139	181.30
.6250	5/8	2	4 7/8	8 3/4	366040	122.95	366140	160.05
.6406	41/64	2	5 1/8	9	366041	153.40	366141	184.10
.6562	21/32	2	5 1/8	9	366042	119.85	366142	162.75
.6719	43/64	2	5 3/8	9 1/4	366043	155.20	366143	186.45
.6875	11/16	2	5 3/8	9 1/4	366044	123.70	366144	164.65
.7031	45/64	2	5 3/8	9 1/2	366045	159.50	366145	191.35
.7188	23/32	2	5 3/8	9 1/2	366046	137.45	366146	183.55
.7344	47/64	2	5 7/8	9 3/4	366047	162.70	366147	195.20
.7500	3/4	2	5 7/8	9 3/4	366048	140.70	366148	177.50
.7656	49/64	2	6	9 7/8	366049	172.95	366149	207.75
.7812	25/32	2	6	9 7/8	366050	167.55	366150	207.65
.7969	51/64	3	6 1/8	10 3/4	366051	174.80	366151	209.70
.8125	13/16	3	6 1/8	10 3/4	366052	169.35	366152	209.85

TOOL DIAMETER		MORSE TAPER	LENGTH		118° POINT		135° POINT	
DECIMAL	FRACTIONAL		FLUTE	OVER-ALL	TYPE 3660 EDP NO.	PRICE EACH	TYPE 3661 EDP NO.	PRICE EACH
.8281	53/64	3	6 1/8	10 3/4	366053	\$189.60	366153	\$227.65
.8438	27/32	3	6 1/8	10 3/4	366054	172.90	366154	209.85
.8594	55/64	3	6 1/8	10 3/4	366055	N/A	366155	N/A
.8750	7/8	3	6 1/8	10 3/4	366056	183.85	366156	221.75
.8906	57/64	3	6 1/8	10 3/4	366057	198.05	366157	237.40
.9062	29/32	3	6 1/8	10 3/4	366058	199.45	366158	231.05
.9219	59/64	3	6 1/8	10 3/4	366059	201.70	366159	241.75
.9375	15/16	3	6 1/8	10 3/4	366060	202.30	366160	223.60
.9531	61/64	3	6 3/8	11	366061	N/A	366161	N/A
.9688	31/32	3	6 3/8	11	366062	211.10	366162	244.55
.9844	63/64	3	6 3/8	11	366063	220.90	366163	265.05
1.0000	1	3	6 3/8	11	366064	199.15	366164	240.55
1.0156	1 1/64	3	6 1/2	11 1/8	366065	N/A	366165	N/A
1.0312	1 1/32	3	6 1/2	11 1/8	366066	268.55	366166	304.50
1.0469	1 1/64	3	6 5/8	11 1/4	366067	N/A	366167	N/A
1.0625	1 1/16	3	6 5/8	11 1/4	366068	258.00	366168	326.95
1.0781	1 5/64	4	6 7/8	12 1/2	366069	N/A	366169	N/A
1.0938	1 3/32	4	6 7/8	12 1/2	366070	N/A	366170	N/A
1.1094	1 7/64	4	7 1/8	12 3/4	366071	N/A	366171	N/A
1.1250	1 1/8	4	7 1/8	12 3/4	366072	285.70	366172	362.60
1.1406	1 9/64	4	7 1/4	12 7/8	366073	N/A	366173	N/A
1.1562	1 5/32	4	7 1/4	12 7/8	366074	N/A	366174	N/A
1.1719	1 11/64	4	7 3/8	13	366075	N/A	366175	N/A
1.1875	1 3/16	4	7 3/8	13	366076	327.35	366176	414.95
1.2031	1 13/64	4	7 1/2	13 1/8	366077	N/A	366177	N/A
1.2188	1 7/32	4	7 1/2	13 1/8	366078	N/A	366178	N/A
1.2344	1 15/64	4	7 1/2	13 1/2	366079	N/A	366179	N/A
1.2500	1 1/4	4	7 7/8	13 1/2	366080	350.25	366180	444.55
1.2812	1 9/32	4	8 1/2	14 1/8	366082	N/A	366182	N/A
1.3125	1 5/16	4	8 5/8	14 1/4	366084	495.50	366184	561.20
1.3438	1 11/32	4	8 3/4	14 3/8	366086	N/A	366186	N/A
1.3750	1 3/8	4	8 7/8	14 1/2	366088	555.30	366188	629.05
1.4062	1 13/32	4	9	14 5/8	366090	N/A	366190	N/A
1.4375	1 7/16	4	9 1/8	14 3/4	366092	N/A	366192	N/A
1.4688	1 15/32	4	9 1/4	14 7/8	366094	N/A	366194	N/A
1.5000	1 1/2	4	9 3/8	15	366096	609.10	366196	690.30
-	-	-	-	-	-	-	-	-

TYPE 3668 - SMALLER TAPER SIZE - 118° POINT

Same as Type 3660, except reduced to the next smaller Morse taper number.

DISCONTINUED - WHILE SUPPLIES LAST

While Supplies Last.

TOOL DIAMETER		MORSE TAPER	LENGTH		TYPE 3668 EDP NO.	PRICE EACH
DECIMAL	FRACTIONAL		FLUTE	OVERALL		
.4844	31/64	1	4 3/8	7 3/4	366831	\$138.25
.5000	1/2	1	4 3/8	7 3/4	366832	108.55
.5156	33/64	1	4 5/8	8	366833	133.90
.5312	17/32	1	4 5/8	8	366834	114.75
.5469	35/64	1	4 7/8	8 1/4	366835	135.80
.5625	9/16	1	4 7/8	8 1/4	366836	115.60
.7969	51/64	2	6 1/8	10	366851	190.65
.8125	13/16	2	6 1/8	10	366852	161.80
.8281	53/64	2	6 1/8	10	366853	190.65

For drill tolerances, see page 150.

While Supplies Last.

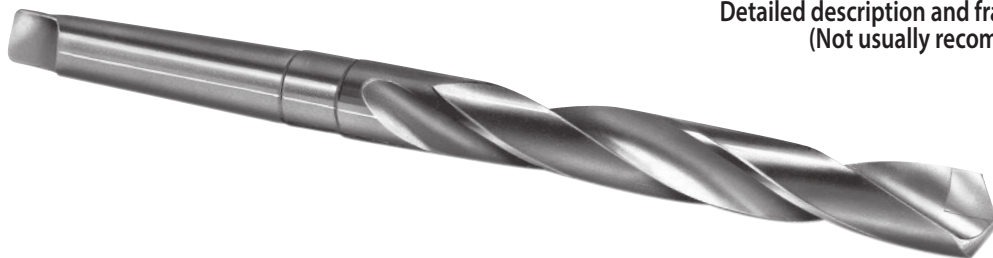
TOOL DIAMETER		MORSE TAPER	LENGTH		TYPE 3668 EDP NO.	PRICE EACH
DECIMAL	FRACTIONAL		FLUTE	OVERALL		
.8438	27/32	2	6 1/8	10	366854	\$165.20
.8594	55/64	2	6 1/8	10	366855	201.40
.8750	7/8	2	6 1/8	10	366856	175.90
.9062	29/32	2	6 1/8	10	366858	189.00
1.0938	1 3/32	3	6 7/8	11 1/2	366870	401.45
1.1250	1 1/8	3	7 1/8	11 3/4	366872	288.50
1.1562	1 5/32	3	7 1/4	11 7/8	366874	391.55
1.1875	1 3/16	3	7 3/8	12	366876	330.35
1.2500	1 1/4	3	7 7/8	12 1/2	366880	353.50

CARBIDE TIPPED TAPER SHANK TWIST DRILLS

METRIC

TYPE 3660 - TAPER SHANK - 118° POINT

Detailed description and fractional sizes on page 136.
(Not usually recommended for drilling steel.)



DISCONTINUED - WHILE SUPPLIES LAST

For drill tolerances, see page 138.

TOOL DIAMETER		MORSE TAPER	FLUTE LENGTH		OVERALL LENGTH		118° POINT	
mm	INCH		mm	INCH	mm	INCH	TYPE 3660 EDP NO.	PRICE EACH
13.0	.5118	2	117	4 5/8	216	8 1/2	3660130	\$125.20
13.5	.5315	2	117	4 5/8	216	8 1/2	3660135	115.95
14.0	.5512	2	124	4 7/8	222	8 3/4	3660140	117.55
14.5	.5709	2	124	4 7/8	222	8 3/4	3660145	132.85
15.0	.5906	2	124	4 7/8	222	8 3/4	3660150	123.25
15.5	.6102	2	124	4 7/8	222	8 3/4	3660155	154.05
16.0	.6299	2	130	5 1/8	229	9	3660160	156.50
16.5	.6496	2	130	5 1/8	229	9	3660165	145.10
17.0	.6693	2	137	5 3/8	235	9 1/4	3660170	158.25
17.5	.6890	2	143	5 5/8	241	9 1/2	3660175	162.70
18.0	.7087	2	143	5 5/8	241	9 1/2	3660180	150.65
18.5	.7283	2	149	5 7/8	248	9 3/4	3660185	165.85
19.0	.7480	2	149	5 7/8	248	9 3/4	3660190	153.45

TOOL DIAMETER		MORSE TAPER	FLUTE LENGTH		OVERALL LENGTH		118° POINT	
mm	INCH		mm	INCH	mm	INCH	TYPE 3660 EDP NO.	PRICE EACH
20.0	.7874	3	156	6 1/8	273	10 3/4	3660200	\$178.10
21.0	.8268	3	156	6 1/8	273	10 3/4	3660210	178.10
22.0	.8661	3	156	6 1/8	273	10 3/4	3660220	174.35
23.0	.9055	3	156	6 1/8	273	10 3/4	3660230	180.15
24.0	.9449	3	162	6 3/8	279	11	3660240	207.90
25.0	.9843	3	162	6 3/8	279	11	3660250	213.25
26.0	1.0236	3	165	6 1/2	283	11 1/8	3660260	319.50
28.0	1.1024	4	181	7 1/8	324	12 3/4	3660280	354.20
30.0	1.1811	4	187	7 3/8	330	13	3660300	426.45
32.0	1.2598	4	216	8 1/2	359	14 1/8	3660320	529.65
34.0	1.3386	4	222	8 3/4	365	14 3/8	3660340	568.95
36.0	1.4173	4	232	9 1/8	375	14 3/4	3660360	651.45
38.0	1.4961	4	238	9 3/8	381	15	3660380	677.40

CARBIDE TIPPED HARD STEEL DIE DRILLS

DISCONTINUED - WHILE SUPPLIES LAST

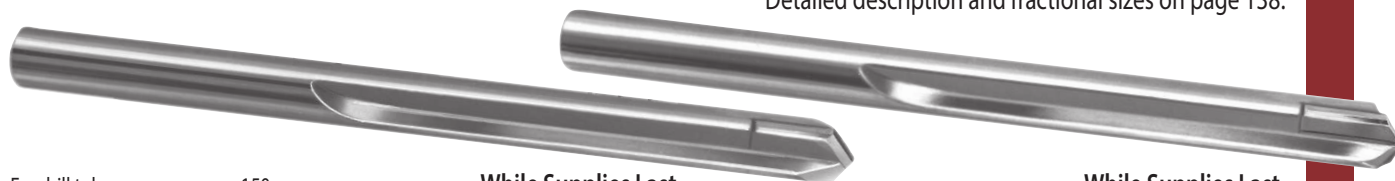
TYPE 3670 - 118° POINT NEGATIVE EDGE

For steels in the range of 50 Rc to 65 Rc.

TYPE 3672 - 118° POINT POSITIVE EDGE

For cast iron, high temperature alloys and steels up to 50 Rc.

Detailed description and fractional sizes on page 138.



For drill tolerances, see page 150.

While Supplies Last.

While Supplies Last.

TOOL DIAMETER		FLUTE LENGTH		OVERALL LENGTH		NEG. 118° PT TYPE 3670 EDP NO.	POS. 118° PT TYPE 3672 EDP NO.	BOTH TYPES PRICE
mm	INCH	mm	INCH	mm	INCH			
5.0	.1969	38	1 1/2	89	3 1/2	3670050	3672050	\$49.75
5.5	.2165	45	1 3/4	95	3 3/4	3670055	3672055	55.25
6.0	.2362	51	2	102	4	3670060	3672060	55.65
6.5	.2559	51	2	102	4	3670065	3672065	58.90
7.0	.2756	57	2 1/4	108	4 1/4	3670070	3672070	58.90
7.5	.2953	57	2 1/4	108	4 1/4	3670075	3672075	61.55
8.0	.3150	64	2 1/2	114	4 1/2	3670080	3672080	66.40
8.5	.3346	70	2 3/4	121	4 3/4	3670085	3672085	66.40
9.0	.3543	70	2 3/4	121	4 3/4	3670090	3672090	70.75
9.5	.3740	76	3	127	5	3670095	3672095	67.15

TOOL DIAMETER		FLUTE LENGTH		OVERALL LENGTH		NEG. 118° PT TYPE 3670 EDP NO.	POS. 118° PT TYPE 3672 EDP NO.	BOTH TYPES PRICE
mm	INCH	mm	INCH	mm	INCH			
10.0	.3937	76	3	133	5 1/4	3670100	3672100	\$82.55
10.5	.4134	76	3	133	5 1/4	3670105	3672105	95.70
11.0	.4331	76	3	140	5 1/2	3670110	3672110	134.70
11.5	.4528	76	3	140	5 1/2	3670115	3672115	100.75
12.0	.4724	83	3 1/4	146	5 3/4	3670120	3672120	123.25
12.5	.4921	89	3 1/2	152	6	3670125	3672125	123.25
13.0	.5118	89	3 1/2	152	6	3670130	3672130	141.35
13.5	.5315	89	3 1/2	152	6	3670135	3672135	141.35
14.0	.5512	89	3 1/2	152	6	3670140	3672140	146.45
-	-	-	-	-	-	-	-	-

CARBIDE TIPPED HARD STEEL DIE DRILLS

TYPE 3670 - 118° PT. NEGATIVE EDGE

For steels in the range of 50 Rc to 65 Rc.

TYPE 3672 - 118° PT. POSITIVE EDGE - DISCONTINUED WHILE SUPPLIES LAST

For cast iron, high temperature alloys and steels up to 50 Rc.

TYPE 3671 - 140° PT. NEGATIVE EDGE - DISCONTINUED WHILE SUPPLIES LAST

For steels in the range of 50 Rc to 65 Rc.

TYPE 3673 - 140° PT. POSITIVE EDGE - DISCONTINUED WHILE SUPPLIES LAST

For cast iron, high temperature alloys and steels up to 50 Rc.

Heavy duty hardened tool steel bodies provide shock resilient support for the thick, long carbide tip. Straight flutes and straight shank. Drill body diameter is smaller than tool diameter.

Die drills may be run at speeds from 75 to 100 SFPM. Apply light feed (.001-.003 I.P.R.) with steady pressure. Flood the point with coolant and withdraw frequently to clear chips



For metric sizes, see page 137.
For drill tolerances, see page 150.

TOOL DIAMETER		LENGTH		NEG. 118° POINT	POS. 118° POINT	BOTH TYPES PRICE	NEG. 140° POINT	POS. 140° POINT	BOTH TYPES PRICE
DECIMAL	FRACTION	FLUTE	OVERALL	TYPE 3670 EDP NO.	TYPE 3672 EDP NO.		TYPE 3671 EDP NO.	TYPE 3673 EDP NO.	
.0625	1/16*	-	1 1/2	367004	-	\$49.30	367104	-	\$49.30
.0781	5/64*	-	1 1/2	367005	-	49.30	367105	-	49.30
.0938	3/32*	-	2	367006	-	54.15	367106	-	54.15
.1094	7/64*	-	2	367007	-	54.15	367107	-	54.15
.1250	1/8*	-	2	367008	-	55.70	367108	-	55.70
.1406	9/64*	-	2	367009	-	55.70	367109	-	55.70
.1562	5/32*	-	2	367010	-	58.65	367110	-	58.65
.1719	11/64*	-	2 3/8	367011	-	58.65	367111	-	58.65
.1875	3/16	1 1/2	3 1/2	367012	367212	53.20	367112	367312	53.20
.2031	13/64	1 1/2	3 1/2	367013	367213	53.20	367113	367313	53.20
.2188	7/32	1 3/4	3 3/4	367014	367214	54.95	367114	367314	54.95
.2344	15/64	1 3/4	3 3/4	367015	367215	56.70	367115	367315	56.70
.2500	1/4	2	4	367016	367216	56.70	367116	367316	56.70
.2656	17/64	2	4	367017	367217	59.95	367117	367317	59.95
.2812	9/32	2 1/4	4 1/4	367018	367218	59.95	367118	367318	59.95
.2969	19/64	2 1/4	4 1/4	367019	367219	62.75	367119	367319	62.75
.3125	5/16	2 1/2	4 1/2	367020	367220	62.75	367120	367320	62.75
.3281	21/64	2 1/2	4 1/2	367021	367221	66.85	367121	367321	66.85
.3438	11/32	2 3/4	4 3/4	367022	367222	66.85	367122	367322	66.85
.3594	23/64	2 3/4	4 3/4	367023	367223	71.95	367123	367323	71.95
.3750	3/8	3	5	367024	367224	71.95	367124	367324	71.95
.3906	25/64	3	5	367025	367225	81.10	367125	367325	81.10
.4062	13/32	3	5 1/4	367026	367226	84.05	367126	367326	84.05
.4219	27/64	3	5 1/4	367027	367227	90.85	367127	367327	90.85
.4375	7/16	3	5 1/2	367028	367228	97.70	367128	367328	97.70
.4531	29/64	3	5 1/2	367029	367229	102.45	367129	367329	102.45
.4688	15/32	3 1/4	5 3/4	367030	367230	107.35	367130	367330	107.35
.4844	31/64	3 1/4	5 3/4	367031	367231	130.10	367131	367331	130.10
.5000	1/2	3 1/2	6	367032	367232	125.80	367132	367332	125.80
.5312	17/32	3 1/2	6	367034	367234	144.25	367134	367334	144.25
.5625	9/16	3 1/2	6	367036	367236	149.25	367136	367336	149.25
.5938	19/32	4	7	367038	367238	157.95	367138	367338	157.95
.6250	5/8	4	7	367040	367240	162.75	367140	367340	162.75
.6562	21/32	4 1/2	7 1/2	367042	367242	174.25	367142	367342	174.25
.6875	11/16	4 1/2	7 1/2	367044	367244	178.80	367144	367344	178.80
.7188	23/32	4 3/4	8	367046	367246	187.40	367146	367346	187.40
.7500	3/4	4 3/4	8	367048	367248	192.65	367148	367348	192.65
.7812	25/32	4 3/4	8	367050	367250	371.90	367150	367350	371.90
.8125	13/16	4 3/4	8	367052	367252	345.20	367152	367352	345.20
.8750	7/8	4 3/4	8	367056	367256	352.35	367156	367356	352.35
.9375	15/16	4 3/4	8	367060	367260	392.45	367160	367360	392.45
1.0000	1	4 3/4	8	367064	367264	416.35	367164	367364	416.35

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SOLID CARBIDE DIE DRILLS

TYPE 3893 - 140° POINT

Two straight flutes. Designed for drilling abrasive and tough materials.



**DISCONTINUED
WHILE SUPPLIES LAST**

While Supplies Last.

TOOL DIAMETER		LENGTH		TYPE 3893 EDP NO.	PRICE EACH
DECIMAL	FRAC.	FLUTE	OVERALL		
.0469	3/64	1/2	1 1/2	389303	\$17.45
.0625	1/16	5/8	1 3/4	389304	17.45
.0781	5/64	3/4	1 3/4	389305	18.15
.0938	3/32	3/4	1 3/4	389306	18.75
.1094	7/64	7/8	1 7/8	389307	19.75
.1250	1/8	7/8	1 7/8	389308	20.80
.1406	9/64	1	2	389309	24.35
.1562	5/32	1	2 1/8	389310	25.55
.1719	11/64	1 1/8	2 1/8	389311	31.45
.1875	3/16	1 1/8	2 1/4	389312	34.15
.2031	13/64	1 3/16	2 1/4	389313	37.65
.2188	7/32	1 1/4	2 1/2	389314	39.35
.2344	15/64	1 5/16	2 1/2	389315	45.65
.2500	1/4	1 3/8	2 1/2	389316	43.05
.2656	17/64	1 7/16	2 3/4	389317	70.50
.2812	9/32	1 1/2	2 3/4	389318	72.85
.2969	19/64	1 9/16	2 3/4	389319	76.60
.3125	5/16	1 5/8	2 3/4	389320	67.00
.3281	21/64	1 3/4	3	389321	79.75
.3438	11/32	1 3/4	3	389322	83.60
.3594	23/64	1 3/4	3	389323	92.55
.3750	3/8	1 7/8	3	389324	88.15
.3906	25/64	2	3 1/4	389325	103.75
.4062	13/32	2	3 1/4	389326	115.10
.4219	27/64	2	3 1/2	389327	118.00
.4375	7/16	2 1/16	3 1/2	389328	118.25
.4531	29/64	2 1/8	3 3/4	389329	145.20
.4688	15/32	2 1/8	3 3/4	389330	145.75
.4844	31/64	2 1/4	3 3/4	389331	146.65
.5000	1/2	2 1/4	3 3/4	389332	130.75

SOLID CARBIDE SPADE DRILLS

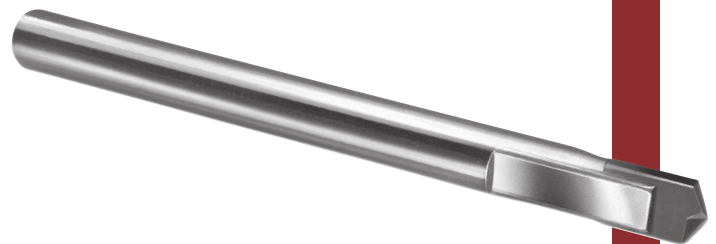
TYPE 3674 - 120° POINT

Solid Carbide.

Cam relieved 120° point. Drill body diameter is smaller than tool diameter to prevent gauling.

TYPE 3675 - 140° POINT

Same as Type 3674 above, except with 140° cam relieved point designed for drilling abrasive and tough materials.



**DISCONTINUED
WHILE SUPPLIES LAST**

BOTH TYPES: For shallow holes, approximately 2 tool diameters deep. The short heavy construction allows more rigid hole drilling for tough applications where longer length drills are not needed.

While Supplies Last.

TOOL DIAMETER		OVERALL LENGTH	120° PT.	140° PT.	BOTH TYPES PRICE
DECIMAL	FRAC.		TYPE 3674 EDP NO.	TYPE 3675 EDP NO.	
.0938	3/32*	2	367406	367506	\$31.45
.1094	7/64*	2	367407	367507	32.15
.1250	1/8*	2	367408	367508	32.15
.1406	9/64*	2	367409	367509	34.80
.1562	5/32*	2	367410	367510	40.00
.1719	11/64*	3	367411	367511	42.70
.1875	3/16*	3	367412	367512	50.50
.2031	13/64*	3	367413	367513	56.85

CARBIDE TIPPED AIRCRAFT EXTENSION DRILLS

TYPE 3610 - 135° SPLIT POINT - 6" OVERALL LENGTH

6" overall length aircraft extension drill. 135° split point per NAS 907 specifications.



TYPE 3611 - 135° SPLIT POINT - 12" OVERALL LENGTH

Same as Type 3610 above, except 12" overall length.



BOTH TYPES: For drilling holes where reach is normally not accessible with jobbers or taper length drills. Feeds should be light to medium range. Not recommended for deep hole applications or for drilling steel.

For drill tolerances, see page 150.

TOOL DIAMETER				6" OVERALL LENGTH				12" OVERALL LENGTH				TOOL DIAMETER				6" OVERALL LENGTH				12" OVERALL LENGTH			
DECIMAL	FRACTION	WIRE LETTER	FLUTE LENGTH	TYPE 3610 EDP NO.	PRICE EACH	TYPE 3611 EDP NO.	PRICE EACH	DECIMAL	FRACTION	WIRE LETTER	FLUTE LENGTH	TYPE 3610 EDP NO.	PRICE EACH	TYPE 3611 EDP NO.	PRICE EACH	DECIMAL	FRACTION	WIRE LETTER	FLUTE LENGTH	TYPE 3610 EDP NO.	PRICE EACH	TYPE 3611 EDP NO.	PRICE EACH
.1160		32	1 5/8	361232	\$46.20	361332	\$54.60	.2380		B	2 3/4	361402	\$59.90	361502	\$70.25	.2380		B	2 3/4	361402	\$59.90	361502	\$70.25
.1200		31	1 5/8	361231	41.45	361331	48.70	.2420		C	2 3/4	361403	59.90	361503	70.25	.2420		C	2 3/4	361403	59.90	361503	70.25
.1250	1/8		1 5/8	361008	32.15	361108	37.80	.2460		D	2 3/4	361404	58.80	361504	69.10	.2460		D	2 3/4	361404	58.80	361504	69.10
.1285		30	1 5/8	361230	43.70	361330	51.35	.2500	1/4	E	2 3/4	361016	42.95	361116	50.50	.2500	1/4	E	2 3/4	361016	42.95	361116	50.50
.1360		29	1 3/4	361229	45.05	361329	53.05	.2570		F	2 7/8	361406	61.40	361506	72.20	.2570		F	2 7/8	361406	61.40	361506	72.20
.1405		28	1 3/4	361228	45.80	361328	54.05	.2610		G	2 7/8	361407	62.75	361507	73.95	.2610		G	2 7/8	361407	62.75	361507	73.95
.1406	9/64		1 3/4	361009	34.85	361109	41.00	.2656	17/64		2 7/8	361017	45.80	361117	54.05	.2656	17/64		2 7/8	361017	45.80	361117	54.05
.1440		27	1 7/8	361227	46.85	361327	55.05	.2660		H	2 7/8	361408	64.10	361508	75.45	.2660		H	2 7/8	361408	64.10	361508	75.45
.1470		26	1 7/8	361226	45.80	361326	54.05	.2720		I	2 7/8	361409	62.75	361509	73.95	.2720		I	2 7/8	361409	62.75	361509	73.95
.1495		25	1 7/8	361225	45.80	361325	54.05	.2770		J	2 7/8	361410	64.10	361510	75.45	.2770		J	2 7/8	361410	64.10	361510	75.45
.1520		24	2	361224	46.85	361324	55.05	.2810		K	2 15/16	361411	64.10	361511	75.45	.2810		K	2 15/16	361411	64.10	361511	75.45
.1540		23	2	361223	45.80	361323	54.05	.2812	9/32		2 15/16	361018	45.80	361118	54.05	.2812	9/32		2 15/16	361018	45.80	361118	54.05
.1562	5/32		2	361010	34.10	361110	40.20	.2900		L	2 15/16	361412	64.10	361512	75.45	.2900		L	2 15/16	361412	64.10	361512	75.45
.1570		22	2	361222	50.05	361322	58.95	.2950		M	3 1/16	361413	70.70	361513	83.15	.2950		M	3 1/16	361413	70.70	361513	83.15
.1590		21	2 1/8	361221	48.55	361321	57.25	.2969	19/64		3 1/16	361019	49.80	361119	58.50	.2969	19/64		3 1/16	361019	49.80	361119	58.50
.1610		20	2 1/8	361220	49.80	361320	58.50	.3020		N	3 1/16	361414	69.10	361514	81.35	.3020		N	3 1/16	361414	69.10	361514	81.35
.1660		19	2 1/8	361219	49.80	361319	58.50	.3125	5/16		3 3/16	361020	49.80	361120	58.50	.3125	5/16		3 3/16	361020	49.80	361120	58.50
.1695		18	2 1/8	361218	49.80	361318	58.50	.3160		O	3 3/16	361415	65.75	361515	77.25	.3160		O	3 3/16	361415	65.75	361515	77.25
.1719	11/64		2 1/8	361011	37.35	361111	43.85	.3230		P	3 3/16	361416	69.95	361516	82.20	.3230		P	3 3/16	361416	69.95	361516	82.20
.1730		17	2 3/16	361217	49.80	361317	58.50	.3281	21/64		3 3/16	361021	52.90	361121	62.30	.3281	21/64		3 3/16	361021	52.90	361121	62.30
.1770		16	2 3/16	361216	48.55	361316	57.25	.3320		Q	3 7/16	361417	71.80	361517	84.45	.3320		Q	3 7/16	361417	71.80	361517	84.45
.1800		15	2 3/16	361215	50.05	361315	58.95	.3390		R	3 7/16	361418	69.95	361518	82.20	.3390		R	3 7/16	361418	69.95	361518	82.20
.1820		14	2 3/16	361214	48.55	361314	57.25	.3438	11/32		3 7/16	361022	52.90	361122	62.30	.3438	11/32		3 7/16	361022	52.90	361122	62.30
.1850		13	2 5/16	361213	48.55	361313	57.25	.3480		S	3 1/2	361419	75.60	361519	88.85	.3480		S	3 1/2	361419	75.60	361519	88.85
.1875	3/16		2 5/16	361012	36.35	361112	42.95	.3580		T	3 1/2	361420	77.50	361520	91.10	.3580		T	3 1/2	361420	77.50	361520	91.10
.1890		12	2 5/16	361212	50.65	361312	59.50	.3594	23/64		3 1/2	361023	56.40	361123	66.15	.3594	23/64		3 1/2	361023	56.40	361123	66.15
.1910		11	2 5/16	361211	51.20	361311	60.40	.3680		U	3 5/8	361421	74.45	361521	87.70	.3680		U	3 5/8	361421	74.45	361521	87.70
.1935		10	2 7/16	361210	50.65	361310	59.50	.3750	3/8		3 5/8	361024	56.40	361124	66.15	.3750	3/8		3 5/8	361024	56.40	361124	66.15
.1960		9	2 7/16	361209	51.20	361309	60.40	.3770		V	3 5/8	361422	75.60	361522	88.85	.3770		V	3 5/8	361422	75.60	361522	88.85
.1990		8	2 7/16	361208	51.20	361308	60.40	.3860		W	3 3/4	361423	81.10	361523	95.35	.3860		W	3 3/4	361423	81.10	361523	95.35
.2010		7	2 7/16	361207	51.20	361307	60.40	.3906	25/64		3 3/4	361025	57.90	361125	68.20	.3906	25/64		3 3/4	361025	57.90	361125	68.20
.2031	13/64		2 7/16	361013	39.90	361113	46.85	.3970		X	3 3/4	361424	76.75	361524	90.35	.3970		X	3 3/4	361424	76.75	361524	90.35
.2040		6	2 1/2	361206	52.60	361306	62.00	.4040		Y	3 7/8	361425	79.70	361525	93.75	.4040		Y	3 7/8	361425	79.70	361525	93.75
.2055		5	2 1/2	361205	51.20	361305	60.40	.4062	13/32		3 7/8	361026	57.15	361126	67.15	.4062	13/32		3 7/8	361026	57.15	361126	67.15
.2090		4	2 1/2	361204	48.15	361304	56.70	.4130		Z	3 7/8	361426	89.90	361526	105.70	.4130		Z	3 7/8	361426	89.90	361526	105.70
.2130		3	2 1/2	361203	51.20	361303	60.40	.4219	27/64		3 15/16	361027	62.75	361127	73.95	.4219	27/64		3 15/16	361027	62.75	361127	73.95
.2188	7/32		2 1/2	361014	39.90	361114	46.85	.4375	7/16		4 1/16	361028	62.75	361128	73.95	.4375	7/16		4 1/16	361028	62.75	361128	73.95
.2210		2	2 5/8	361202	50.45	361302	59.25	.4531	29/64		4 3/16	361029	72.10	361129	84.90	.4531	29/64		4 3/16	361029	72.10	361129	84.90
.2280		1	2 5/8	361201	49.80	361301	58.50	.4688	15/32		4 5/16	361030	70.70	361130	83.15	.4688	15/32		4 5/16	361030	70.70	361130	83.15
.2340	A		2 5/8	361401	59.90	361501	70.25	.4844	31/64		4 3/8	361031	79.30	361131	93.30	.4844	31/64		4 3/8	361031	79.30	361131	93.30
.2344	15/64		2 5/8	361015	42.95	361115	50.50	.5000	1/2		4 1/2	361032	79.30	361132	93.30	.5000	1/2		4 1/2	361032	79.30	361132	93.30

HIGH SPEED STEEL COBALT JOBBERS LENGTH DRILLS FOR STEEL



DISCONTINUED - WHILE SUPPLIES LAST

TYPE 3699 - JOBBERS LENGTH- 135° SPLIT POINT

6 piece standard package quantity over .3020" diameter
12 piece standard package quantity up to .3020" diameter

High speed steel cobalt jobbers length drills for most materials
including steels, stainless steels, and steel alloys.

TOOL DIAMETER		LENGTH		135° POINT	
DEC.	WIRE LTR, FRAC	FLT.	OVER-ALL	TYPE 3699 EDP NO.	PRICE EACH
.0400	60	1 1/16	1 5/8	36990400	\$3.35
.0410	59	1 1/16	1 5/8	36990410	3.35
.0420	58	1 1/16	1 5/8	36990420	3.35
.0430	57	3/4	1 3/4	36990430	3.35
.0465	56	3/4	1 3/4	36990465	3.35
.0520	55	7/8	1 7/8	36990520	2.85
.0550	54	7/8	1 7/8	36990550	2.85
.0595	53	7/8	1 7/8	36990595	2.85
.0625	52	7/8	1 7/8	36990625	2.65
.0635	52	7/8	1 7/8	36990635	2.65
.0670	51	1	2	36990670	2.65
.0700	50	1	2	36990700	2.65
.0730	49	1	2	36990730	2.65
.0760	48	1	2	36990760	2.65
.0781	5/64	1	2	36990781	2.65
.0785	47	1	2	36990785	2.65
.0810	46	1 1/8	2 1/8	36990810	2.65
.0820	45	1 1/8	2 1/8	36990820	2.65
.0860	44	1 1/8	2 1/8	36990860	2.65
.0890	43	1 1/4	2 1/4	36990890	2.65
.0935	42	1 1/4	2 1/4	36990935	2.65
.0938	3/32	1 1/4	2 1/4	36990938	2.65
.0960	41	1 1/2	2 3/4	36990960	2.65
.0980	40	1 1/2	2 3/4	36990980	2.75
.0995	39	1 1/2	2 3/4	36990995	2.75
.1015	38	1 1/2	2 3/4	36991015	2.75
.1040	37	1 1/2	2 3/4	36991040	2.85
.1065	36	1 1/2	2 3/4	36991065	2.85
.1094	7/64	1 1/2	2 3/4	36991094	2.80
.1100	35	1 1/2	2 3/4	36991100	2.85
.1110	34	1 1/2	2 3/4	36991110	2.85
.1130	33	1 1/2	2 3/4	36991130	2.85
.1160	32	1 5/8	2 5/8	36991160	3.10
.1200	31	1 5/8	2 5/8	36991200	3.10
.1250	30	1 5/8	2 5/8	36991250	3.45
.1285	30	1 5/8	2 5/8	36991285	3.15
.1360	29	1 3/4	2 7/8	36991360	3.35
.1405	28	1 3/4	2 7/8	36991405	3.45

TOOL DIAMETER		LENGTH		135° POINT	
DEC.	WIRE LTR, FRAC	FLT.	OVER-ALL	TYPE 3699 EDP NO.	PRICE EACH
.1406	9/64	1 3/4	2 7/8	36991406	\$3.45
.1440	27	1 7/8	3	36991440	3.65
.1470	26	1 7/8	3	36991470	3.65
.1495	25	1 7/8	3	36991495	3.65
.1520	24	2	3 1/8	36991520	4.15
.1540	23	2	3 1/8	36991540	4.15
.1562	5/32	2	3 1/8	36991562	3.85
.1570	22	2	3 1/8	36991570	4.15
.1590	21	2 1/8	3 3/4	36991590	4.15
.1610	20	2 1/8	3 3/4	36991610	4.15
.1660	19	2 1/8	3 3/4	36991660	4.15
.1695	18	2 1/8	3 3/4	36991695	4.20
.1719	17/64	2 1/8	3 3/4	36991719	4.00
.1730	17	2 3/8	3 3/8	36991730	4.60
.1770	16	2 3/8	3 3/8	36991770	4.70
.1800	15	2 3/8	3 3/8	36991800	5.05
.1820	14	2 3/8	3 3/8	36991820	5.05
.1850	13	2 3/8	3 1/2	36991850	5.05
.1875	3/16	2 3/8	3 1/2	36991875	4.55
.1890	12	2 3/8	3 1/2	36991890	5.30
.1910	11	2 3/8	3 1/2	36991910	5.30
.1935	10	2 3/8	3 1/2	36991935	5.30
.1960	9	2 3/8	3 1/2	36991960	5.30
.1990	8	2 3/8	3 1/2	36991990	5.30
.2010	7	2 3/8	3 1/2	36992010	5.30
.2031	13/64	2 3/8	3 1/2	36992031	5.45
.2040	6	2 1/2	3 3/4	36992040	6.85
.2055	5	2 1/2	3 3/4	36992055	6.85
.2090	4	2 1/2	3 3/4	36992090	6.85
.2130	3	2 1/2	3 3/4	36992130	6.85
.2188	7/32	2 1/2	3 3/4	36992188	5.95
.2210	2	2 1/2	3 3/4	36992210	7.30
.2280	1	2 1/2	3 3/4	36992280	7.30
.2340	A	2 3/8	3 7/8	36992340	8.40
.2344	15/64	2 3/8	3 7/8	36992344	6.30
.2380	B	2 3/4	4	36992380	9.65
.2420	C	2 3/4	4	36992420	9.65
.2460	D	2 3/4	4	36992460	9.75

TOOL DIAMETER		LENGTH		135° POINT	
DEC.	WIRE LTR, FRAC	FLT.	OVER-ALL	TYPE 3699 EDP NO.	PRICE EACH
.2500	1/4	2 3/4	4	36992500	\$6.70
.2570	F	2 7/8	4 1/8	36992570	10.15
.2610	G	2 7/8	4 1/8	36992610	10.50
.2656	17/64	2 7/8	4 1/8	36992656	7.70
.2660	H	2 7/8	4 1/8	36992660	10.85
.2720	I	2 7/8	4 1/8	36992720	10.90
.2770	J	2 7/8	4 1/8	36992770	11.20
.2810	K	2 15/16	4 1/4	36992810	11.40
.2812	9/32	2 15/16	4 1/4	36992812	8.05
.2900	L	2 15/16	4 1/4	36992900	12.30
.2950	M	3 1/16	4 3/8	36992950	13.10
.2969	19/64	3 1/16	4 3/8	36992969	9.80
.3020	N	3 1/16	4 3/8	36993020	13.10
.3125	5/16	3 3/16	4 1/2	36993125	10.45
.3160	O	3 1/16	4 1/2	36993160	14.40
.3230	P	3 3/16	4 3/8	36993230	15.40
.3281	21/64	3 3/16	4 3/8	36993281	11.55
.3320	Q	3 7/16	4 3/4	36993320	15.90
.3390	R	3 7/16	4 3/4	36993390	15.90
.3438	11/32	3 7/16	4 3/4	36993438	12.65
.3480	S	3 1/2	4 7/8	36993480	19.45
.3594	23/64	3 1/2	4 7/8	36993594	13.95
.3580	T	3 1/2	4 7/8	36993580	19.45
.3680	U	3 3/8	5	36993680	19.45
.3750	3/8	3 3/8	5	36993750	14.40
.3770	V	3 3/8	5	36993770	21.40
.3860	W	3 3/4	5 1/8	36993860	21.40
.3960	25/64	3 3/4	5 1/8	36993960	16.60
.3970	X	3 3/4	5 1/8	36993970	21.40
.4040	Y	3 7/8	5 1/4	36994040	22.75
.4062	13/32	3 7/8	5 1/4	36994062	17.20
.4130	Z	3 7/8	5 1/4	36994130	24.80
.4210	27/64	3 15/16	5 3/8	36994210	19.05
.4375	7/16	4 1/16	5 1/2	36994375	19.45
.4531	29/64	4 3/16	5 5/8	36994531	23.40
.4688	15/32	4 3/8	5 3/4	36994688	23.80
.4844	31/64	4 3/8	5 7/8	36994844	24.55
.5000	1/2	4 1/2	6	36995000	24.80

CARBIDE TIPPED STRAIGHT FLUTE COOLANT DRILLS

DISCONTINUED - WHILE SUPPLIES LAST

TYPE 3658 - 125° 4 FACET POINT - EXTRA LONG LENGTH



Carbide tip brazed to hardened tool steel bodies. Self centering point with polished straight flutes for hole straightness and chip removal capacity. Shank diameter is same size as tool diameter. Drill body diameter is smaller than tool diameter. Two coolant holes.

Tool and shank diameter tolerances: +.000"/-.001"

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TOOL DIAMETER		LENGTH		TYPE 3658 EDP NO.	PRICE EACH	DECIMAL SIZE RANGE*
DECIMAL	FRAC.	FLUTE	OVERALL			
.3125	5/16	8	10	365820	\$419.00	.3100 - .3160
.3438	11/32	8	10	365822	419.00	.3281 - .3460
.3750	3/8	9	11	365824	442.80	.3594 - .3770
.4062	13/32	9	11	365826	504.05	.3906 - .4080
.4375	7/16	9	11	365828	504.05	.4200 - .4390
.4688	15/32	9 3/4	12	365830	532.20	.4531 - .4710
.5000	1/2	9 3/4	12	365832	532.20	.4800 - .5030
.5312	17/32	9 3/4	12	365834	571.25	.5118 - .5330

TOOL DIAMETER		LENGTH		TYPE 3658 EDP NO.	PRICE EACH	DECIMAL SIZE RANGE*
DECIMAL	FRAC.	FLUTE	OVERALL			
.5625	9/16	10 3/4	13	365836	\$615.25	.5430 - .5650
.6250	5/8	10 3/4	13	365840	649.65	.6070 - .6270
.6875	11/16	11 3/4	14	365844	676.45	.6693 - .6900
.7500	3/4	11 3/4	14	365848	716.10	.7320 - .7530
.8125	13/16	12 3/4	15	365852	760.40	.7953 - .8160
.8750	7/8	12 3/4	15	365856	819.35	.8570 - .8780
.9375	15/16	13 3/4	16	365860	875.45	.9180 - .9390
1.0000	1	13 3/4	16	365864	948.10	.9820 - 1.0030

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*Call for decimal size pricing.

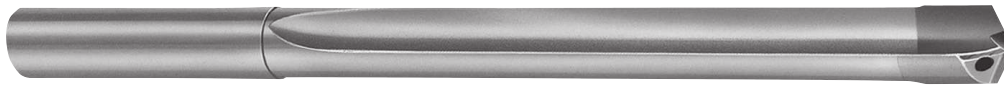
Made in U.S.A.

CARBIDE TIPPED STRAIGHT FLUTE COOLANT DRILLS

DISCONTINUED - WHILE SUPPLIES LAST

TYPE 3650 - 125° 4 FACET POINT - LONG LENGTH

Carbide tip brazed to hardened tool steel bodies. Self centering point with polished straight flutes for hole straightness and chip removal capacity. Shank diameter is same size as tool diameter. Drill body diameter is smaller than tool diameter. Two coolant holes. Where possible use shorter length
Type 3652 for greater rigidity.



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TOOL DIAMETER		LENGTH		TYPE 3650 EDP NO.	PRICE EACH	DECIMAL SIZE RANGE*
DECIMAL	FRACTION	FLUTE	OVERALL			
.2500	1/4	4 5/8	6 1/8	365016	\$290.30	.2490 - .2530
.2656	17/64	4 3/4	6 1/4	365017	290.30	-
.2812	9/32	4 3/4	6 1/4	365018	290.30	.2640 - .2840
.2969	19/64	4 7/8	6 3/8	365019	290.30	-
.3125	5/16	4 7/8	6 3/8	365020	290.30	.2950 - .3160
.3281	21/64	5	6 1/2	365021	279.40	-
.3438	11/32	5	6 1/2	365022	279.40	.3260 - .3460
.3594	23/64	5 1/4	6 3/4	365023	272.25	-
.3750	3/8	5 1/4	6 3/4	365024	282.75	.3540 - .3770
.3906	25/64	5 1/2	7	365025	279.40	-
.4062	13/32	5 1/2	7	365026	279.40	.3850 - .4080
.4219	27/64	5 3/4	7 1/4	365027	288.50	-
.4375	7/16	5 3/4	7 1/4	365028	288.50	.4100 - .4390
.4531	29/64	5 3/4	7 1/2	365029	306.65	-
.4688	15/32	5 3/4	7 1/2	365030	306.65	.4391 - .4724
.4844	31/64	5 3/4	7 3/4	365031	315.80	-
.5000	1/2	5 3/4	7 3/4	365032	315.80	.4725 - .5030
.5156	33/64	6	8	365033	338.85	-
.5312	17/32	6	8	365034	338.85	.5031 - .5330
.5469	35/64	6 1/4	8 1/4	365035	351.00	-
.5625	9/16	6 1/4	8 1/4	365036	356.90	.5331 - .5650

TOOL DIAMETER		LENGTH		TYPE 3650 EDP NO.	PRICE EACH	DECIMAL SIZE RANGE*
DECIMAL	FRACTION	FLUTE	OVERALL			
.5781	37/64	6 3/4	8 3/4	365037	\$422.60	-
.5938	19/32	6 3/4	8 3/4	365038	429.70	.5651 - .5950
.6094	39/64	6 3/4	8 3/4	365039	422.60	-
.6250	5/8	6 3/4	8 3/4	365040	429.70	.5951 - .6270
.6406	41/64	7	9	365041	445.35	-
.6562	21/32	7	9	365042	453.05	.6271 - .6570
.6719	43/64	7 1/4	9 1/4	365043	476.75	-
.6875	11/16	7 1/4	9 1/4	365044	485.20	.6571 - .6900
.7031	45/64	7 1/2	9 1/2	365045	494.95	-
.7188	23/32	7 1/2	9 1/2	365046	503.35	.6901 - .7220
.7344	47/64	7 3/4	9 3/4	365047	499.10	-
.7500	3/4	7 3/4	9 3/4	365048	507.90	.7221 - .7530
.7656	49/64	7 7/8	9 7/8	365049	539.95	-
.7812	25/32	7 7/8	9 7/8	365050	539.95	.7531 - .7840
.8125	13/16	8	10	365052	549.00	.7841 - .8160
.8438	27/32	8	10	365054	581.20	.8161 - .8470
.8750	7/8	8	10	365056	594.95	.8471 - .8780
.9062	29/32	8	10	365058	659.10	.8781 - .9090
.9375	15/16	8 3/4	10 3/4	365060	686.35	.9091 - .9390
.9688	31/32	9	11	365062	693.05	.9391 - .9700
1.0000	1	9	11	365064	693.05	.9701 - 1.0030

TYPE 3652 - 125° 4 FACET POINT - SHORT LENGTH

Same as Type 3650 above, except shorter length.

DISCONTINUED - WHILE SUPPLIES LAST

BOTH TYPES ON THIS PAGE:

Tool and shank diameter tolerances: +.000"/-.001".



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TOOL DIAMETER		LENGTH		TYPE 3652 EDP NO.	PRICE EACH	DECIMAL SIZE RANGE*
DECIMAL	FRACTION	FLUTE	OVERALL			
.2500	1/4	2 1/2	4 29/32	365216	\$265.05	.2490 - .2530
.2656	17/64	2 3/4	5 5/32	365217	265.05	-
.2812	9/32	2 3/4	5 5/32	365218	265.05	.2640 - .2840
.2969	19/64	3 3/16	5 19/32	365219	265.05	-
.3125	5/16	3 3/16	5 19/32	365220	265.05	.2950 - .3160
.3281	21/64	3 7/16	5 27/32	365221	265.05	-
.3438	11/32	3 7/16	5 27/32	365222	265.05	.3260 - .3460
.3594	23/64	3 5/8	6 1/32	365223	267.95	-
.3750	3/8	3 5/8	6 1/32	365224	267.95	.3540 - .3770
.3906	25/64	3 7/8	6 5/32	365225	274.60	-
.4062	13/32	3 7/8	6 5/32	365226	274.60	.3850 - .4080
.4219	27/64	4 1/16	6 15/32	365227	283.90	-
.4375	7/16	4 1/16	6 15/32	365228	283.90	.4100 - .4390
.4531	29/64	4 5/16	6 23/32	365229	302.25	-
.4688	15/32	4 5/16	6 23/32	365230	302.25	.4391 - .4724
.4844	31/64	4 1/2	6 29/32	365231	311.10	-
.5000	1/2	4 1/2	6 29/32	365232	311.10	.4725 - .5030
.5156	33/64	4 13/16	7 7/32	365233	324.15	-
.5312	17/32	4 13/16	7 7/32	365234	329.60	.5031 - .5330
.5469	35/64	4 13/16	7 7/32	365235	341.95	-
.5625	9/16	4 13/16	7 7/32	365236	347.90	.5331 - .5650

TOOL DIAMETER		LENGTH		TYPE 3652 EDP NO.	PRICE EACH	DECIMAL SIZE RANGE*
DECIMAL	FRACTION	FLUTE	OVERALL			
.5781	37/64	5 3/16	7 19/32	365237	\$409.90	-
.5938	19/32	5 3/16	7 19/32	365238	416.70	.5651 - .5950
.6094	39/64	5 3/16	7 19/32	365239	409.90	-
.6250	5/8	5 3/16	7 19/32	365240	416.70	.5951 - .6270
.6406	41/64	5 3/16	7 19/32	365241	439.40	-
.6562	21/32	5 3/16	7 19/32	365242	439.40	.6271 - .6570
.6719	43/64	5 5/8	8 1/32	365243	475.35	-
.6875	11/16	5 5/8	8 1/32	365244	476.00	.6571 - .6900
.7031	45/64	5 5/8	8 1/32	365245	489.50	-
.7188	23/32	5 5/8	8 1/32	365246	489.50	.6901 - .7220
.7344	47/64	6 1/16	8 15/32	365247	494.40	-
.7500	3/4	6 1/16	8 15/32	365248	494.40	.7221 - .7530
.7656	49/64	6 1/16	8 9/16	365249	517.55	-
.7812	25/32	6 1/16	8 9/16	365250	526.50	.7531 - .7840
.8125	13/16	6 1/16	8 9/16	365252	535.25	.7841 - .8160
.8438	27/32	6 1/2	9	365254	567.55	.8161 - .8470
.8750	7/8	6 1/2	9	365256	581.20	.8471 - .8780
.9062	29/32	6 15/16	9 7/16	365258	621.95	.8781 - .9090
.9375	15/16	6 15/16	9 7/16	365260	668.15	.9091 - .9390
.9688	31/32	6 15/16	9 7/16	365262	695.50	.9391 - .9700
1.0000	1	7 3/8	9 7/8	365264	713.80	.9701 - 1.0030

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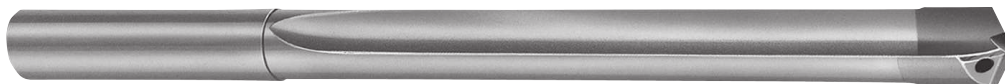
CARBIDE TIPPED STRAIGHT FLUTE COOLANT DRILLS

METRIC

DISCONTINUED - WHILE SUPPLIES LAST

TYPE 3650 - 125° 4 FACET POINT - LONG LENGTH

Carbide tip brazed to hardened tool steel bodies. Self centering point with polished straight flutes for hole straightness and chip removal capacity. Shank diameter is same size as tool diameter. Drill body diameter is smaller than tool diameter. Two coolant holes. Where possible use shorter length Type 3652 for greater rigidity.



While Supplies Last.

TOOL DIAMETER		LENGTH				TYPE 3650 EDP NO.	PRICE EACH	METRIC SIZE RANGE*
		FLUTE		OVERALL				
mm	INCH	mm	INCH	mm	INCH			
**6.5	.2559	117	4 3/8	156	6 1/8	3650065	\$302.55	-
7.0	.2756	121	4 3/4	159	6 1/4	3650070	302.55	6.706 - 7.214
7.5	.2953	124	4 7/8	162	6 3/8	3650075	302.55	7.493 - 8.026
8.0	.3150	124	4 7/8	162	6 3/8	3650080	302.55	-
8.5	.3346	127	5	165	6 1/2	3650085	292.20	8.280 - 8.788
9.0	.3543	133	5 1/4	171	6 3/4	3650090	292.20	8.992 - 9.576
9.5	.3740	133	5 1/4	171	6 3/4	3650095	292.20	-
10.0	.3937	140	5 1/2	178	7	3650100	292.20	9.779 - 10.363
10.5	.4134	146	5 3/4	184	7 1/4	3650105	302.55	10.414 - 11.151
11.0	.4331	146	5 3/4	184	7 1/4	3650110	302.55	-
11.5	.4528	146	5 3/4	191	7 1/2	3650115	326.95	11.153 - 12.000
12.0	.4724	146	5 3/4	191	7 1/2	3650120	326.95	-
12.5	.4921	146	5 3/4	197	7 3/4	3650125	333.95	12.002 - 12.776
13.0	.5118	152	6	203	8	3650130	354.70	12.779 - 13.538
13.5	.5315	152	6	203	8	3650135	354.70	-
14.0	.5512	159	6 1/4	210	8 1/4	3650140	372.10	13.541 - 14.351
14.5	.5709	171	6 3/4	222	8 3/4	3650145	451.95	14.354 - 15.113
15.0	.5906	171	6 3/4	222	8 3/4	3650150	451.95	-
15.5	.6102	171	6 3/4	222	8 3/4	3650155	451.95	15.116 - 15.926

While Supplies Last.

TOOL DIAMETER		LENGTH				TYPE 3650 EDP NO.	PRICE EACH	METRIC SIZE RANGE*
		FLUTE		OVERALL				
mm	INCH	mm	INCH	mm	INCH			
16.0	.6299	178	7	229	9	3650160	\$462.50	15.928 - 16.688
16.5	.6496	178	7	229	9	3650165	462.50	-
17.0	.6693	184	7 ¼	235	9 ¼	3650170	493.65	16.690 - 17.526
17.5	.6890	184	7 ¼	235	9 ¼	3650175	493.65	-
18.0	.7087	191	7 ½	241	9 ½	3650180	518.15	17.529 - 18.339
18.5	.7283	197	7 ¾	248	9 ¾	3650185	521.55	18.341 - 19.126
19.0	.7480	197	7 ¾	248	9 ¾	3650190	521.55	-
19.5	.7677	200	7 ⅞	251	9 ⅞	3650195	553.00	19.129 - 19.914
20.0	.7874	203	8	254	10	3650200	560.05	19.916 - 20.726
20.5	.8071	203	8	254	10	3650205	560.05	-
21.0	.8268	203	8	254	10	3650210	591.20	20.729 - 21.514
21.5	.8465	203	8	254	10	3650215	591.20	-
22.0	.8661	203	8	254	10	3650220	605.10	21.516 - 22.301
22.5	.8858	203	8	254	10	3650225	667.70	22.304 - 23.089
23.0	.9055	203	8	254	10	3650230	667.70	-
23.5	.9252	222	8 ¾	273	10 ¾	3650235	692.05	23.091 - 23.851
24.0	.9449	229	9	279	11	3650240	719.85	23.853 - 24.638
24.5	.9646	229	9	279	11	3650245	719.85	-
25.0	.9843	229	9	279	11	3650250	719.85	24.641 - 25.476

DISCONTINUED - WHILE SUPPLIES LAST

TYPE 3652 - 125° 4 FACET POINT - SHORT LENGTH

Same as Type 3650 above, except shorter length.



BOTH TYPES ON THIS PAGE:

Tool and shank diameter tolerances: +.000"/-.001".

TOOL DIAMETER		LENGTH				TYPE 3652 EDP NO.	PRICE EACH	METRIC SIZE RANGE*
		FLUTE		OVERALL				
mm	INCH	mm	INCH	mm	INCH			
**6.5	.2559	64	2 1/2	125	4 29/32	3652065	\$342.45	-
7.0	.2756	70	2 3/4	131	5 5/32	3652070	342.45	6.706 - 7.214
7.5	.2953	81	3 3/16	142	5 19/32	3652075	342.45	7.493 - 8.026
8.0	.3150	81	3 3/16	142	5 19/32	3652080	342.45	-
8.5	.3346	87	3 7/16	148	5 27/32	3652085	330.65	8.280 - 8.788
9.0	.3543	92	3 5/8	153	6 1/32	3652090	330.65	8.992 - 9.576
9.5	.3740	92	3 5/8	153	6 1/32	3652095	330.65	-
10.0	.3937	98	3 7/8	159	6 9/32	3652100	330.65	9.779 - 10.363
10.5	.4134	103	4 1/16	164	6 15/32	3652105	342.45	10.414 - 11.151
11.0	.4331	103	4 1/16	164	6 15/32	3652110	342.45	-
11.5	.4528	109	4 3/16	171	6 23/32	3652115	370.15	11.153 - 12.000
12.0	.4724	109	4 3/16	171	6 23/32	3652120	370.15	-
12.5	.4921	114	4 1/2	175	6 29/32	3652125	378.00	12.002 - 12.776
13.0	.5118	122	4 13/16	183	7 7/32	3652130	401.50	12.779 - 13.538
13.5	.5315	122	4 13/16	183	7 7/32	3652135	401.50	-
14.0	.5512	122	4 13/16	183	7 7/32	3652140	421.25	13.541 - 14.351
14.5	.5709	131	5 3/16	193	7 19/32	3652145	511.75	14.354 - 15.113
15.0	.5906	131	5 3/16	193	7 19/32	3652150	511.75	-
15.5	.6102	131	5 3/16	193	7 19/32	3652155	511.75	15.116 - 15.926

While Supplies Last.

TOOL DIAMETER		LENGTH				TYPE 3652 EDP NO.	PRICE EACH	METRIC SIZE RANGE*
		FLUTE		OVERALL				
mm	INCH	mm	INCH	mm	INCH			
16.0	.6299	131	5 3/16	193	7 19/32	3652160	\$523.45	15.928 - 16.688
16.5	.6496	131	5 3/16	193	7 19/32	3652165	523.45	-
17.0	.6693	143	5 5/8	204	8 1/32	3652170	558.90	16.690 - 17.526
17.5	.6890	143	5 5/8	204	8 1/32	3652175	558.90	-
18.0	.7087	143	5 5/8	204	8 1/32	3652180	586.65	17.529 - 18.339
18.5	.7283	154	6 1/16	215	8 15/32	3652185	590.45	18.341 - 19.126
19.0	.7480	154	6 1/16	215	8 15/32	3652190	590.45	-
19.5	.7677	154	6 1/16	217	8 9/16	3652195	626.05	19.129 - 19.914
20.0	.7874	154	6 1/16	217	8 9/16	3652200	634.00	19.916 - 20.726
20.5	.8071	154	6 1/16	217	8 9/16	3652205	634.00	-
21.0	.8268	165	6 1/2	229	9	3652210	669.20	20.729 - 21.514
21.5	.8465	165	6 1/2	229	9	3652215	669.20	-
22.0	.8661	165	6 1/2	229	9	3652220	685.00	21.516 - 22.301
22.5	.8858	176	6 15/16	240	9 7/16	3652225	755.85	22.304 - 23.089
23.0	.9055	176	6 15/16	240	9 7/16	3652230	755.85	-
23.5	.9252	176	6 15/16	240	9 7/16	3652235	783.45	23.091 - 23.851
24.0	.9449	176	6 15/16	240	9 7/16	3652240	814.80	23.853 - 24.638
24.5	.9646	176	6 15/16	240	9 7/16	3652245	808.00	-
25.0	.9843	187	7 3/8	251	9 7/8	3652250	814.80	24.641 - 25.476

CARBIDE TIPPED COOLANT TWIST DRILLS



DISCONTINUED - WHILE SUPPLIES LAST

TOOL DIAMETER		LENGTH		125° 4 FACET PT.		135° SPLIT PT.	
DECIMAL	FRAC.	FLUTE	OVERALL	TYPE 3656 EDP NO.	PRICE EACH	TYPE 3657 EDP NO.	PRICE EACH
.2500	1/4	3 3/4	6 1/8	365616	\$291.20	365716	\$364.55
.2812	9/32	3 7/8	6 1/4	365618	291.20	365718	358.70
.3125	5/16	4	6 3/8	365620	N/A	365720	N/A
.3438	11/32	4 1/8	6 1/2	365622	291.20	365722	358.70
.3750	3/8	4 1/4	6 3/4	365624	291.20	365724	358.70
.4062	13/32	4 3/8	7	365626	291.20	365726	384.95
.4375	7/16	4 5/8	7 1/4	365628	291.20	365728	384.95
.4688	15/32	4 7/8	7 1/2	365630	N/A	365730	N/A
.5000	1/2	5	7 3/4	365632	N/A	365732	N/A
.5312	17/32	5 1/4	8	365634	N/A	365734	N/A
.5625	9/16	5 3/8	8 1/4	365636	N/A	365736	N/A
.5938	19/32	5 5/8	8 1/2	365638	429.85	365738	512.65
.6250	5/8	5 3/4	8 3/4	365640	429.85	365740	512.65
.6562	21/32	5 7/8	9	365642	457.25	365742	545.25
.6875	11/16	6	9 1/4	365644	489.90	365744	583.95
.7188	23/32	6 1/16	9 1/2	365646	510.40	365746	599.05
.7500	3/4	6 3/8	9 3/4	365648	513.00	365748	602.30

TYPE 3656 - 125° 4 FACET POINT LONG LENGTH

Carbide tip brazed to hardened tool steel bodies with polished right spiral flutes. Self centering point. Shank and body diameters are same size as tool diameter. Two coolant holes. Heavy web with slow spiral for best rigidity and improved chip removal.

TYPE 3657 - 135° SPLIT POINT LONG LENGTH

Same as Type 3656 above, except with 135° cam relieved split point.

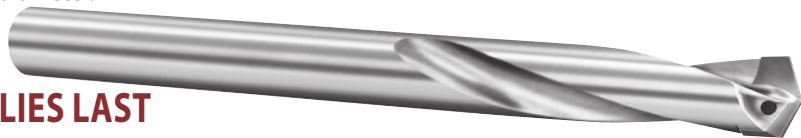
Tool and shank diameter tolerances: +.000"/-.001".

*Call for decimal size pricing.

TYPE 3654 - 125° 4 FACET POINT - STUB LENGTH

TYPE 3655 - 135° SPLIT POINT - STUB LENGTH

Same as Type 3656 & 3657 above, except shorter length and shank & body diameters are smaller than tool diameter.



DISCONTINUED - WHILE SUPPLIES LAST

Tool and shank diameter tolerances: +.000"/-.001".

TOOL DIAMETER		FLUTE LENGTH	SHANK & BODY DIAM.	OVER-ALL LENGTH	125° 4 FACET PT.		135° SPLIT PT.	
DECIMAL	FRAC.				TYPE 3654 EDP NO.	PRICE EACH	TYPE 3655 EDP NO.	PRICE EACH
.2500	1/4	1 17/32	.2344	3 15/16	365416	\$270.20	365516	\$332.10
.2656	17/64	1 19/32	.2500	4	365417	308.05	365517	354.70
.2812	9/32	1 19/32	.2656	4	365418	289.40	365518	350.65
.2969	19/64	1 3/4	.2812	4 5/32	365419	308.05	365519	354.70
.3125	5/16	1 3/4	.2969	4 5/32	365420	289.40	365520	350.65
.3281	21/64	1 11/16	.3125	4 11/32	365421	308.05	365521	354.70
.3438	11/32	1 11/16	.3281	4 11/32	365422	289.40	365522	350.65
.3594	23/64	2 1/8	.3438	4 17/32	365423	308.05	365523	368.95
.3750	3/8	2 1/8	.3594	4 17/32	365424	289.40	365524	350.65
.3906	25/64	2 5/32	.3750	4 11/16	365425	308.05	365525	390.55
.4062	13/32	2 5/32	.3906	4 11/16	365426	289.40	365526	375.95
.4219	27/64	2 1/2	.4062	4 29/32	365427	308.05	365527	390.55
.4375	7/16	2 1/2	.4219	4 29/32	365428	289.40	365528	375.95
.4531	29/64	2 21/32	.4375	5 1/16	365429	325.85	365529	390.55
.4688	15/32	2 21/32	.4531	5 1/16	365430	308.15	365530	375.95
.4844	31/64	2 13/16	.4688	5 7/32	365431	333.10	365531	390.55
.5000	1/2	2 13/16	.4844	5 7/32	365432	317.35	365532	375.95
.5156	33/64	3	.5000	5 13/32	365433	N/A	365533	N/A
.5312	17/32	3	.5156	5 13/32	365434	N/A	365534	N/A
.5469	35/64	3 1/8	.5312	5 17/32	365435	N/A	365535	N/A
.5625	9/16	3 1/8	.5469	5 17/32	365436	N/A	365536	N/A
.5781	37/64	3 9/32	.5625	5 11/16	365437	N/A	365537	N/A
.5938	19/32	3 5/32	.5781	5 11/16	365438	339.60	365538	398.20
.6094	39/64	3 7/16	.5938	5 27/32	365439	354.70	365539	408.25
.6250	5/8	3 7/16	.6094	5 27/32	365440	339.60	365540	398.20
.6406	41/64	3 21/32	.6250	6 1/16	365441	354.70	365541	408.25
.6562	21/32	3 21/32	.6406	6 1/16	365442	339.60	365542	398.20

TOOL DIAMETER		FLUTE LENGTH	SHANK & BODY DIAM.	OVER-ALL LENGTH	125° 4 FACET PT.		135° SPLIT PT.	
DECIMAL	FRAC.				TYPE 3654 EDP NO.	PRICE EACH	TYPE 3655 EDP NO.	PRICE EACH
.6719	43/64	3 13/16	.6562	6 7/32	365443	\$354.70	365543	\$408.25
.6875	11/16	3 13/16	.6719	6 7/32	365444	339.60	365544	398.20
.7031	45/64	3 15/16	.6875	6 11/32	365445	394.20	365545	451.40
.7188	23/32	3 15/16	.7031	6 11/32	365446	379.65	365546	438.20
.7344	47/64	4 1/8	.7188	6 17/32	365447	394.20	365547	451.40
.7500	3/4	4 1/8	.7344	6 17/32	365448	379.65	365548	438.20
.7656	49/64	4 9/32	.7500	6 25/32	365449	394.20	365549	451.40
.7812	25/32	4 9/32	.7656	6 25/32	365450	379.65	365550	438.20
.7969	51/64	4 7/16	.7812	6 15/16	365451	469.30	365551	523.00
.8125	13/16	4 7/16	.7969	6 15/16	365452	453.00	365552	511.05
.8281	53/64	4 19/32	.8125	7 3/32	365453	469.30	365553	523.00
.8438	27/32	4 19/32	.8281	7 3/32	365454	453.00	365554	511.05
.8594	55/64	4 11/16	.8438	7 3/16	365455	469.30	365555	523.00
.8750	7/8	4 11/16	.8594	7 3/16	365456	453.00	365556	511.05
.8906	57/64	4 7/8	.8750	7 3/8	365457	497.75	365557	555.30
.9062	29/32	4 7/8	.8906	7 3/8	365458	482.20	365558	540.40
.9219	59/64	5 1/32	.9062	7 17/32	365459	497.75	365559	555.30
.9375	15/16	5 1/32	.9219	7 17/32	365460	482.20	365560	540.40
.9531	61/64	5 3/16	.9375	7 11/16	365461	526.55	365561	583.85
.9688	31/32	5 3/16	.9531	7 11/16	365462	507.50	365562	565.80
.9844	63/64	5 3/16	.9688	7 13/16	365463	526.55	365563	583.85
1.0000	1	5 5/16	.9844	7 13/16	365464	507.50	365564	565.80
1.0312	1 1/32	5 11/16	1.0000	8 3/16	365466	547.65	365566	606.10
1.0625	1 1/16	5 11/16	1.0000	8 3/16	365468	565.80	365568	624.45
1.0938	1 3/32	5 11/16	1.0000	8 3/16	365470	580.55	365570	639.05
1.1250	1 1/8	5 11/16	1.0000	8 3/16	365472	602.45	365572	660.95
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CARBIDE TIPPED COOLANT TWIST DRILLS

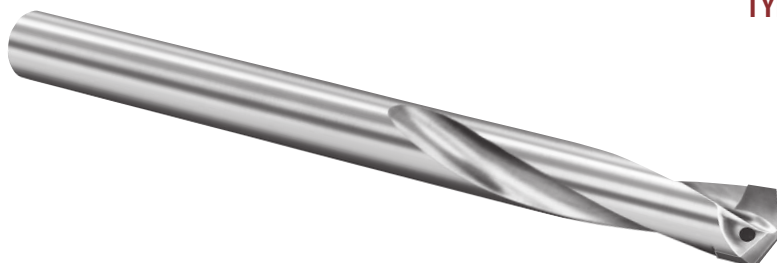
METRIC

TYPE 3654 - 125° 4 FACET POINT - STUB LENGTH

Carbide tip brazed to hardened tool steel bodies with polished right spiral flutes. Self centering point. Shank and body diameters are smaller than tool diameter. Two coolant holes. Heavy web with slow spiral for best rigidity and improved chip removal.

TYPE 3655 - 135° SPLIT POINT - STUB LENGTH

Same as Type 3654 above, except with 135° cam relieved split point.



DISCONTINUED - WHILE SUPPLIES LAST

Tool and shank diameter tolerances: +.000"/-.001".

TOOL DIAMETER		FLUTE LENGTH		SHANK & BODY DIAM.		OVERALL LENGTH		125° 4 FACET POINT		135° SPLIT POINT	
mm	INCH	mm	INCH	mm	INCH	mm	INCH	TYPE 3654 EDP NO.	PRICE EACH	TYPE 3655 EDP NO.	PRICE EACH
6.5	.2559	39	1 17/32	6.0	.2362	100	3 15/16	3654065	\$290.30	3655065	\$340.30
7.0	.2756	40	1 19/32	6.5	.2559	102	4	3654070	308.05	3655070	354.70
7.5	.2953	40	1 19/32	7.0	.2756	102	4	3654075	308.05	3655075	354.70
8.0	.3150	44	1 3/4	7.5	.2953	106	4 5/32	3654080	308.05	3655080	354.70
8.5	.3346	49	1 15/16	8.0	.3150	110	4 11/32	3654085	308.05	3655085	368.95
9.0	.3543	49	1 15/16	8.5	.3346	110	4 11/32	3654090	308.05	3655090	368.95
9.5	.3740	54	2 1/8	9.0	.3543	115	4 17/32	3654095	308.05	3655095	368.95
10.0	.3937	58	2 9/32	9.5	.3740	119	4 11/16	3654100	308.05	3655100	390.55
10.5	.4134	58	2 9/32	10.0	.3937	119	4 11/16	3654105	308.05	3655105	390.55
11.0	.4331	64	2 1/2	10.5	.4134	125	4 29/32	3654110	308.05	3655110	390.55
11.5	.4528	67	2 21/32	11.0	.4331	129	5 1/16	3654115	325.85	3655115	390.55
12.0	.4724	67	2 21/32	11.5	.4528	129	5 1/16	3654120	325.85	3655120	390.55
12.5	.4921	71	2 13/16	12.0	.4724	133	5 7/32	3654125	333.10	3655125	390.55
13.0	.5118	76	3	12.5	.4921	137	5 13/32	3654130	329.40	3655130	390.55
13.5	.5315	76	3	13.0	.5118	137	5 13/32	3654135	329.40	3655135	390.55
14.0	.5512	79	3 1/8	13.5	.5315	140	5 17/32	3654140	329.40	3655140	390.55
14.5	.5709	83	3 9/32	14.0	.5512	144	5 11/16	3654145	354.70	3655145	408.25
15.0	.5906	83	3 9/32	14.5	.5709	144	5 11/16	3654150	354.70	3655150	408.25
15.5	.6102	87	3 7/16	15.0	.5906	148	5 27/32	3654155	354.70	3655155	408.25
16.0	.6299	87	3 7/16	15.5	.6102	148	5 27/32	3654160	354.70	3655160	408.25
16.5	.6496	93	3 21/32	16.0	.6299	154	6 1/16	3654165	354.70	3655165	408.25
17.0	.6693	93	3 21/32	16.5	.6496	154	6 1/16	3654170	354.70	3655170	408.25
17.5	.6890	97	3 13/16	17.0	.6693	158	6 7/32	3654175	354.70	3655175	451.40
18.0	.7087	100	3 15/16	17.5	.6890	161	6 11/32	3654180	394.20	3655180	451.40
18.5	.7283	100	3 15/16	18.0	.7087	161	6 11/32	3654185	394.20	3655185	451.40
19.0	.7480	105	4 1/8	18.5	.7283	166	6 17/32	3654190	394.20	3655190	451.40
19.5	.7677	109	4 9/32	19.0	.7480	172	6 25/32	3654195	394.20	3655195	451.40
20.0	.7874	109	4 9/32	19.5	.7677	172	6 25/32	3654200	394.20	3655200	523.00
20.5	.8071	113	4 7/16	20.0	.7874	176	6 15/16	3654205	469.30	3655205	523.00
21.0	.8268	117	4 19/32	20.5	.8071	180	7 3/32	3654210	469.30	3655210	523.00
21.5	.8465	117	4 19/32	21.0	.8268	180	7 3/32	3654215	469.30	3655215	523.00
22.0	.8661	119	4 11/16	21.5	.8465	183	7 3/16	3654220	469.30	3655220	523.00
22.5	.8858	124	4 7/8	22.0	.8661	187	7 3/8	3654225	497.75	3655225	555.30
23.0	.9055	124	4 7/8	22.5	.8858	187	7 3/8	3654230	497.75	3655230	555.30
23.5	.9252	128	5 1/2	23.0	.9055	191	7 17/32	3654235	497.75	3655235	555.30
24.0	.9449	132	5 3/16	23.5	.9252	195	7 11/16	3654240	526.55	3655240	583.85
24.5	.9646	132	5 3/16	24.0	.9449	195	7 11/16	3654245	526.55	3655245	583.85
25.0	.9843	135	5 3/16	24.5	.9646	198	7 13/16	3654250	526.55	3655250	583.85
26.0	1.0236	144	5 11/16	25.5	1.0039	208	8 3/16	3654260	565.80	3655260	623.40

CARBIDE TIPPED CORE DRILLS FOR NON-FERROUS & CAST IRON

TYPE 3620 - FOUR SPIRAL FLUTES - STRAIGHT SHANK

TYPE 3622 - FOUR SPIRAL FLUTES - TAPER SHANK

Carbide tips brazed to hardened tool steel bodies. Right spiral flutes with 118° included chamfer angle.

Core drills, with increased flute capacity, remove more material from a cored or cast hole than a reamer. This often eliminates a final reaming or boring operation. Types 3620 and 3622 core drills are specifically designed for cast iron, non-ferrous and high temperature alloy applications. For steel applications, refer to Types 3621 and 3623 on pages 148 & 149.



Tool and shank diameter tolerances: +.000"/-.001".

TOOL DIAMETER		MIN. CUT DIAM.	LENGTH			TYPE 3620		TYPE 3622		BOTH TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DEC.	FRA.		FLT	CARB	OAL	SHANK DIAM.	EDP NO.	MORSE TAPER	EDP NO.			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14**
.3750	3/8*	.262	3 1/2	5/8	6 3/4	3/8	362012	1	362212	\$159.60	.3471 - .3780	\$217.90	\$188.55	\$178.85	\$174.25	\$169.10	\$165.40
.4062	13/32*	.284	3 5/8	5/8	7	13/32	362013	1	362213	159.60	.3781 - .4090	217.90	188.55	178.85	174.25	169.10	165.40
.4375	7/16*	.306	3 7/8	3/4	7 1/4	7/16	362014	1	362214	159.60	.4091 - .4410	217.90	188.55	178.85	174.25	169.10	165.40
.4688	15/32*	.328	4 1/8	3/4	7 1/2	15/32	362015	1	362215	159.60	.4411 - .4720	217.90	188.55	178.85	174.25	169.10	165.40
.5000	1/2	.350	4 3/8	3/4	8 1/4	1/2	362016	2	362216	159.60	.4721 - .5030	217.90	188.55	178.85	174.25	169.10	165.40
.5312	17/32	.372	4 3/8	3/4	8 1/4	17/32	362017	2	362217	160.20	.5031 - .5340	218.70	189.45	179.55	175.00	169.95	165.85
.5625	9/16	.394	4 3/8	3/4	8 1/4	9/16	362018	2	362218	160.20	.5341 - .5660	218.70	189.45	179.55	175.00	169.95	165.85
.5938	19/32	.416	4 3/8	3/4	8 1/4	19/32	362019	2	362219	168.30	.5661 - .5970	226.55	197.30	187.65	182.95	177.95	174.10
.6250	5/8	.438	4 3/8	3/4	8 1/4	5/8	362020	2	362220	168.30	.5971 - .6280	226.55	197.30	187.65	182.95	177.95	174.10
.6562	21/32	.459	4 3/8	3/4	8 1/4	21/32	362021	2	362221	170.20	.6281 - .6590	228.60	199.35	189.70	184.85	180.10	176.05
.6875	11/16	.481	4 3/8	7/8	8 1/4	11/16	362022	2	362222	171.75	.6591 - .6910	230.15	200.95	191.05	186.45	181.45	177.45
.7188	23/32	.503	4 3/8	7/8	8 1/4	23/32	362023	2	362223	171.75	.6911 - .7220	230.15	200.95	191.05	186.45	181.45	177.45
.7500	3/4	.525	4 3/8	7/8	8 1/4	3/4	362024	2	362224	171.75	.7221 - .7530	230.15	200.95	191.05	186.45	181.45	177.45
.7812	25/32	.547	4 3/8	7/8	8 1/4	25/32	362025	2	362225	175.45	.7531 - .7840	233.85	204.65	194.90	190.20	185.30	181.30
.8125	13/16	.569	4 7/8	7/8	9 1/2	13/16	362026	3	362226	180.40	.7841 - .8160	238.80	209.65	199.75	195.20	190.00	186.30
.8438	27/32	.591	4 7/8	7/8	9 1/2	27/32	362027	3	362227	190.00	.8161 - .8470	248.40	219.25	209.40	204.70	199.75	195.80
.8750	7/8	.612	4 7/8	7/8	9 1/2	7/8	362028	3	362228	190.00	.8471 - .8780	248.40	219.25	209.40	204.70	199.75	195.80
.9062	29/32	.634	4 7/8	7/8	9 1/2	29/32	362029	3	362229	191.20	.8781 - .9090	249.55	220.45	210.55	205.95	201.00	197.00
.9375	15/16	.656	4 7/8	7/8	9 1/2	15/16	362030	3	362230	191.20	.9091 - .9410	249.55	220.45	210.55	205.95	201.00	197.00
.9688	31/32	.678	4 7/8	7/8	9 1/2	31/32	362031	3	362231	198.45	.9411 - .9720	256.60	227.35	217.75	213.10	208.00	204.10
1.0000	1	.700	4 7/8	7/8	9 1/2	1	362032	3	362232	202.10	.9721 - 1.0030	260.45	231.20	221.30	216.75	211.70	207.75
1.0312	1 1/32	.722	4 7/8	7/8	9 1/2	1 1/32	362033	3	362233	203.75	1.0031 - 1.0340	262.05	232.70	223.10	218.35	213.40	209.40
1.0625	1 1/16	.744	4 7/8	7/8	9 1/2	1 1/16	362034	3	362234	206.55	1.0341 - 1.0660	265.00	235.65	225.90	221.20	216.15	212.30
1.0938	1 3/32	.766	4 7/8	1	10 1/2	1 3/32	362035	4	362235	240.55	1.0661 - 1.0970	298.85	269.75	259.90	255.30	250.25	246.30
1.1250	1 1/8	.787	4 7/8	1	10 1/2	1 1/8	362036	4	362236	240.55	1.0971 - 1.1280	298.85	269.75	259.90	255.30	250.25	246.30
1.1562	1 9/32	.809	4 7/8	1	10 1/2	1 9/32	362037	4	362237	262.65	1.1281 - 1.1590	320.90	291.80	282.05	277.40	272.40	268.40
1.1875	1 3/16	.831	4 7/8	1	10 1/2	1 3/16	362038	4	362238	270.25	1.1591 - 1.1905	328.55	299.55	289.55	284.95	280.00	276.10
1.2188	1 7/32	.853	4 7/8	1	10 1/2	1 7/32	362039	4	362239	271.25	1.1906 - 1.2220	329.60	300.35	290.70	285.90	280.85	277.00
1.2500	1 1/4	.875	4 7/8	1	10 1/2	1 1/4	362040	4	362240	272.40	1.2221 - 1.2530	330.75	301.50	291.75	287.00	282.05	278.05
1.2812	1 1/32	.897	4 7/8	1	10 1/2	1 1/32	362041	4	362241	291.80	1.2531 - 1.2840	350.20	320.85	311.15	306.40	301.50	297.40
1.3125	1 1/16	.919	4 7/8	1	10 1/2	1 1/16	362042	4	362242	299.90	1.2841 - 1.3150	358.35	329.10	319.20	314.65	309.60	305.60
1.3438	1 1/32	.940	4 7/8	1	10 1/2	1 1/32	362043	4	362243	306.20	1.3151 - 1.3470	364.55	335.35	325.55	320.85	316.00	311.85
1.3750	1 3/8	.962	4 7/8	1	10 1/2	1 3/8	362044	4	362244	313.65	1.3471 - 1.3780	371.95	342.75	332.95	328.35	323.35	319.25
1.4062	1 13/32	.984	4 7/8	1	10 1/2	1 13/32	362045	4	362245	320.75	1.3781 - 1.4090	379.15	350.05	340.05	335.45	330.45	326.50
1.4375	1 7/16	1.006	4 7/8	1	10 1/2	1 7/16	362046	4	362246	330.15	1.4091 - 1.4410	388.60	359.40	349.50	344.90	339.90	335.95
1.4688	1 15/32	1.025	4 7/8	1	10 1/2	1 15/32	362047	4	362247	339.95	1.4411 - 1.4720	398.25	369.10	359.40	354.70	349.55	345.80
1.5000	1 1/2	1.050	4 7/8	1	10 1/2	1 1/2	362048	4	362248	347.40	1.4721 - 1.5030	405.65	376.35	366.65	361.95	356.90	353.15

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CARBIDE TIPPED CORE DRILLS FOR NON-FERROUS & CAST IRON

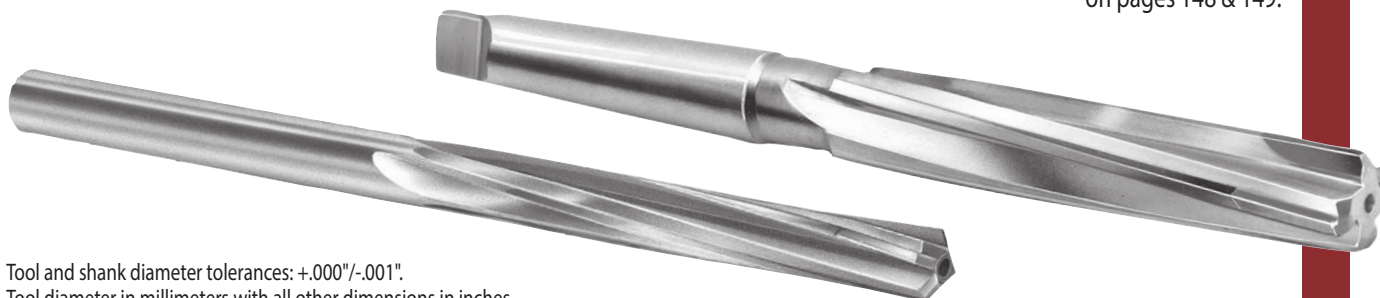
METRIC

TYPE 3620 - FOUR SPIRAL FLUTES - STRAIGHT SHANK

TYPE 3622 - FOUR SPIRAL FLUTES - TAPER SHANK

Carbide tips brazed to hardened tool steel bodies. Right spiral flutes with 118° included chamfer angle.

Core drills, with increased flute capacity, remove more material from a cored or cast hole than a reamer. This often eliminates a final reaming or boring operation. Types 3620 and 3622 core drills are specifically designed for cast iron, non-ferrous and high temperature alloy applications. For steel applications, refer to Types 3621 and 3623 on pages 148 & 149.



Tool and shank diameter tolerances: +.000"/-.001".

Tool diameter in millimeters with all other dimensions in inches.

TOOL DIAMETER		MIN. CUT DIAM.	LENGTH			TYPE 3620		TYPE 3622		BOTH TYPES PRICE	METRIC SIZE RANGE	PRICE EACH - FINISHED TO METRIC SIZE						
mm	INCH		FLT	CARB	OAL	SHANK DIAM.	EDP NO.	MORSE TAPER	EDP NO.			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
9.0*	.3543	.262	3 1/2	5/8	6 3/4	3/8	3620090	1	3622090	\$178.85	8.815-9.601	\$222.80	\$193.70	\$183.80	\$179.00	\$174.25	\$170.10	\$164.50
10.0*	.3937	.284	3 3/8	5/8	7	13/32	3620100	1	3622100	178.85	9.602-10.389	222.80	193.70	183.80	179.00	174.25	170.10	164.50
11.0*	.4331	.306	3 7/8	3/4	7 1/4	7/16	3620110	1	3622110	178.85	10.390-11.201	222.80	193.70	183.80	179.00	174.25	170.10	164.50
-*	-	.328	4 1/8	3/4	7 1/2	15/32	3620119	1	3622119	-	11.202-11.989	222.80	193.70	183.80	179.00	174.25	170.10	164.50
12.0	.4724	.350	4 3/8	3/4	8 1/4	1/2	3620120	2	3622120	178.85	11.990-12.776	222.80	193.70	183.80	179.00	174.25	170.10	164.50
13.0	.5118	.372	4 3/8	3/4	8 1/4	17/32	3620130	2	3622130	179.55	12.777-13.564	223.40	194.45	184.60	180.00	175.00	170.95	165.40
14.0	.5512	.394	4 3/8	3/4	8 1/4	9/16	3620140	2	3622140	179.55	13.565-14.376	223.40	194.45	184.60	180.00	175.00	170.95	165.40
15.0	.5906	.416	4 3/8	3/4	8 1/4	19/32	3620150	2	3622150	187.65	14.377-15.164	231.55	202.40	192.65	187.85	182.95	178.85	173.30
-	-	.438	4 3/8	3/4	8 1/4	5/8	3620159	2	3622159	-	15.165-15.951	231.55	202.40	192.65	187.85	182.95	178.85	173.30
16.0	.6299	.459	4 3/8	3/4	8 1/4	21/32	3620160	2	3622160	189.70	15.952-16.739	233.60	204.40	194.60	189.85	184.85	180.75	175.30
17.0	.6693	.481	4 3/8	7/8	8 1/4	11/16	3620170	2	3622170	191.05	16.740-17.551	235.05	205.80	195.95	191.20	186.45	182.25	176.70
18.0	.7087	.503	4 3/8	7/8	8 1/4	23/32	3620180	2	3622180	191.05	17.552-18.339	235.05	205.80	195.95	191.20	186.45	182.25	176.70
19.0	.7480	.525	4 3/8	7/8	8 1/4	3/4	3620190	2	3622190	191.05	18.340-19.126	235.05	205.80	195.95	191.20	186.45	182.25	176.70
-	-	.547	4 3/8	7/8	8 1/4	25/32	3620199	2	3622199	-	19.127-19.914	238.80	209.80	200.05	195.20	190.20	186.30	180.55
20.0	.7874	.569	4 7/8	7/8	9 1/2	13/16	3620200	3	3622200	199.75	19.915-20.726	243.65	214.65	204.70	200.10	195.20	191.05	185.45
21.0	.8268	.591	4 7/8	7/8	9 1/2	27/32	3620210	3	3622210	209.40	20.727-21.514	253.40	224.25	214.50	209.80	204.70	200.80	195.20
22.0	.8661	.612	4 7/8	7/8	9 1/2	7/8	3620220	3	3622220	209.40	21.515-22.301	253.40	224.25	214.50	209.80	204.70	200.80	195.20
23.0	.9055	.634	4 7/8	7/8	9 1/2	29/32	3620230	3	3622230	210.55	22.302-23.089	254.55	225.45	215.75	210.75	205.95	202.00	196.35
-	-	.656	4 7/8	7/8	9 1/2	15/16	3620239	3	3622239	-	23.090-23.901	254.55	225.45	215.75	210.75	205.95	202.00	196.35
24.0	.9449	.678	4 7/8	7/8	9 1/2	31/32	3620240	3	3622240	217.75	23.902-24.689	261.60	232.45	222.70	217.90	213.10	208.90	203.30
25.0	.9843	.700	4 7/8	7/8	9 1/2	1	3620250	3	3622250	221.30	24.690-25.476	265.30	236.15	226.40	221.60	216.75	212.65	207.05
26.0	1.0236	.722	4 7/8	7/8	9 1/2	1 1/32	3620260	3	3622260	223.10	25.477-26.264	266.95	237.85	228.10	223.25	218.35	214.40	208.65
27.0	1.0630	.744	4 7/8	7/8	9 1/2	1 1/16	3620270	3	3622270	225.90	26.265-27.076	269.95	240.65	230.90	226.20	221.20	217.20	211.60
-	-	.766	4 7/8	1	10 1/2	1 3/32	3620279	4	3622279	-	27.077-27.864	303.85	274.65	265.00	260.05	255.30	251.15	245.70
28.0	1.1024	.787	4 7/8	1	10 1/2	1 1/8	3620280	4	3622280	259.90	27.865-28.651	303.85	274.65	265.00	260.05	255.30	251.15	245.70
29.0	1.1417	.809	4 7/8	1	10 1/2	1 5/32	3620290	4	3622290	282.05	28.652-29.439	325.90	296.90	287.00	282.30	277.40	273.20	267.55
30.0	1.1811	.831	4 7/8	1	10 1/2	1 3/16	3620300	4	3622300	289.55	29.440-30.239	333.55	304.35	294.75	289.70	284.95	280.85	275.35
31.0	1.2205	.853	4 7/8	1	10 1/2	1 7/32	3620310	4	3622310	290.70	30.240-31.039	334.55	305.35	295.65	290.85	285.90	281.75	276.25
-	-	.875	4 7/8	1	10 1/2	1 1/4	3620319	4	3622319	-	31.040-31.826	335.50	306.40	296.80	291.95	287.00	282.95	277.40
32.0	1.2598	.897	4 7/8	1	10 1/2	1 9/32	3620320	4	3622320	311.15	31.827-32.614	355.15	325.90	316.15	311.40	306.40	302.40	296.90
33.0	1.2992	.919	4 7/8	1	10 1/2	1 5/16	3620330	4	3622330	319.20	32.615-33.401	363.10	333.95	324.15	319.40	314.65	310.55	304.95
34.0	1.3386	.940	4 7/8	1	10 1/2	1 11/32	3620340	4	3622340	325.55	33.402-34.214	369.60	340.50	330.60	325.85	320.85	316.90	311.30
35.0	1.3780	.962	4 7/8	1	10 1/2	1 3/8	3620350	4	3622350	332.95	34.215-35.001	377.00	347.75	338.00	333.15	328.35	324.15	318.75
-	-	.984	4 7/8	1	10 1/2	1 13/32	3620359	4	3622359	-	35.002-35.789	384.05	355.00	345.05	340.50	335.45	331.45	325.85
36.0	1.4173	1.006	4 7/8	1	10 1/2	1 7/16	3620360	4	3622360	349.50	35.790-36.601	393.50	364.30	354.65	349.65	344.90	340.80	335.30
37.0	1.4567	1.025	4 7/8	1	10 1/2	1 15/32	3620370	4	3622370	359.40	36.602-37.389	403.25	374.15	364.30	359.65	354.70	350.55	344.95
38.0	1.4961	1.050	4 7/8	1	10 1/2	1 1/2	3620380	4	3622380	366.65	37.390-38.176	410.50	381.40	371.75	366.80	361.95	357.90	352.20

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*3 flutes.

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CARBIDE TIPPED CORE DRILLS FOR STEEL

TYPE 3621 - FOUR SPIRAL FLUTES - STRAIGHT SHANK

TYPE 3623 - FOUR SPIRAL FLUTES - TAPER SHANK

Carbide tips brazed to hardened tool steel bodies. Right spiral flutes with 118° included chamfer angle.

Core drills, with increased flute capacity, remove more material from a cored or cast hole than a reamer. This often eliminates a final reaming or boring operation. Types 3621 and 3623 core drills are specifically designed for steel applications. For cast iron non-ferrous and high temperature alloy applications, refer to Types 3620 and 3622 on pages 146 and 147.



Tool and shank diameter tolerances: +.000"/-.001".

TOOL DIAMETER		MIN. CUT DIAM.	LENGTH			TYPE 3621		TYPE 3623		BOTH TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DEC.	FRACTIONAL		FLT	CARB	OAL	SHANK DIAM.	EDP NO.	MORSE TAPER	EDP NO.			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14**
.3750	3/8"	.262	3 1/2	5/8	6 3/4	3/8	362112	1	362312	\$175.70	.3471 - .3780	\$234.05	204.70	194.95	\$190.35	\$185.35	\$181.45
.4062	13/32"	.284	3 5/8	5/8	7	13/32	362113	1	362313	175.70	.3781 - .4090	234.05	204.70	194.95	190.35	185.35	181.45
.4375	7/16"	.306	3 7/8	3/4	7 1/4	7/16	362114	1	362314	175.70	.4091 - .4410	234.05	204.70	194.95	190.35	185.35	181.45
.4688	15/32"	.328	4 1/8	3/4	7 1/2	15/32	362115	1	362315	175.70	.4411 - .4720	234.05	204.70	194.95	190.35	185.35	181.45
.5000	1/2	.350	4 3/8	3/4	8 1/4	1/2	362116	2	362316	175.70	.4721 - .5030	234.05	204.70	194.95	190.35	185.35	181.45
.5312	17/32	.372	4 3/8	3/4	8 1/4	17/32	362117	2	362317	176.30	.5031 - .5340	234.60	205.50	195.60	190.95	185.90	182.05
.5625	9/16	.394	4 3/8	3/4	8 1/4	9/16	362118	2	362318	176.30	.5341 - .5660	234.60	205.50	195.60	190.95	185.90	182.05
.5938	19/32	.416	4 3/8	3/4	8 1/4	19/32	362119	2	362319	185.30	.5661 - .5970	243.50	214.40	204.50	200.05	194.90	190.95
.6250	5/8	.438	4 3/8	3/4	8 1/4	5/8	362120	2	362320	185.30	.5971 - .6280	243.50	214.40	204.50	200.05	194.90	190.95
.6562	21/32	.459	4 3/8	3/4	8 1/4	21/32	362121	2	362321	187.40	.6281 - .6590	245.70	216.30	206.55	202.00	196.95	192.95
.6875	11/16	.481	4 3/8	7/8	8 1/4	11/16	362122	2	362322	189.00	.6591 - .6910	247.30	217.95	208.30	203.60	198.70	194.60
.7188	23/32	.503	4 3/8	7/8	8 1/4	23/32	362123	2	362323	189.00	.6911 - .7220	247.30	217.95	208.30	203.60	198.70	194.60
.7500	3/4	.525	4 3/8	7/8	8 1/4	3/4	362124	2	362324	189.00	.7221 - .7530	247.30	217.95	208.30	203.60	198.70	194.60
.7812	25/32	.547	4 3/8	7/8	8 1/4	25/32	362125	2	362325	192.95	.7531 - .7840	251.20	222.20	212.30	207.60	202.55	198.75
.8125	13/16	.569	4 7/8	7/8	9 1/2	13/16	362126	3	362326	198.55	.7841 - .8160	256.80	227.65	217.80	213.25	208.20	204.20
.8438	27/32	.591	4 7/8	7/8	9 1/2	27/32	362127	3	362327	209.10	.8161 - .8470	267.40	238.20	228.40	223.80	218.85	214.85
.8750	7/8	.612	4 7/8	7/8	9 1/2	7/8	362128	3	362328	209.10	.8471 - .8780	267.40	238.20	228.40	223.80	218.85	214.85
.9062	29/32	.634	4 7/8	7/8	9 1/2	29/32	362129	3	362329	210.30	.8781 - .9090	268.70	239.60	229.75	225.05	220.15	216.05
.9375	15/16	.656	4 7/8	7/8	9 1/2	15/16	362130	3	362330	210.30	.9091 - .9410	268.70	239.60	229.75	225.05	220.15	216.05
.9688	31/32	.678	4 7/8	7/8	9 1/2	31/32	362131	3	362331	218.05	.9411 - .9720	276.40	247.30	237.40	232.70	227.95	223.95
1.0000	1	.700	4 7/8	7/8	9 1/2	1	362132	3	362332	222.35	.9721 - 1.0030	280.65	251.50	241.60	237.00	232.10	228.10
1.0312	1 1/32	.722	4 7/8	7/8	9 1/2	1 1/32	362133	3	362333	224.00	1.0031 - 1.0340	282.35	253.05	243.30	238.75	233.70	229.75
1.0625	1 1/16	.744	4 7/8	7/8	9 1/2	1 1/16	362134	3	362334	227.10	1.0341 - 1.0660	285.45	256.20	246.40	241.70	236.85	232.70
1.0938	1 3/32	.766	4 7/8	1	10 1/2	1 3/32	362135	4	362335	264.70	1.0661 - 1.0970	322.80	293.70	283.90	279.35	274.30	270.25
1.1250	1 1/8	.787	4 7/8	1	10 1/2	1 1/8	362136	4	362336	276.45	1.0971 - 1.1280	335.00	305.80	295.95	291.20	286.30	282.35
1.1562	1 5/32	.809	4 7/8	1	10 1/2	1 5/32	362137	4	362337	289.00	1.1281 - 1.1590	347.40	318.05	308.30	303.60	298.55	294.75
1.1875	1 3/16	.831	4 7/8	1	10 1/2	1 3/16	362138	4	362338	297.25	1.1591 - 1.1905	355.60	326.50	316.70	312.00	307.10	303.15
1.2188	1 7/32	.853	4 7/8	1	10 1/2	1 7/32	362139	4	362339	298.40	1.1906 - 1.2220	356.75	327.55	317.80	313.05	308.20	304.20
1.2500	1 1/4	.875	4 7/8	1	10 1/2	1 1/4	362140	4	362340	299.60	1.2221 - 1.2530	357.90	328.55	318.90	314.25	309.30	305.25
1.2812	1 1/2	.897	4 7/8	1	10 1/2	1 1/2	362141	4	362341	320.85	1.2531 - 1.2840	379.20	350.10	340.10	335.50	330.60	326.60
1.3125	1 5/16	.919	4 7/8	1	10 1/2	1 5/16	362142	4	362342	329.75	1.2841 - 1.3150	388.15	358.95	349.20	344.50	339.60	335.50
1.3438	1 11/32	.940	4 7/8	1	10 1/2	1 11/32	362143	4	362343	336.85	1.3151 - 1.3470	395.30	366.05	356.30	351.70	346.45	342.70
1.3750	1 3/8	.962	4 7/8	1	10 1/2	1 3/8	362144	4	362344	344.95	1.3471 - 1.3780	403.35	374.15	364.30	359.70	354.70	350.65
1.4062	1 13/32	.984	4 7/8	1	10 1/2	1 13/32	362145	4	362345	353.15	1.3781 - 1.4090	411.35	382.15	372.35	367.70	362.75	358.70
1.4375	1 7/16	1.006	4 7/8	1	10 1/2	1 7/16	362146	4	362346	363.35	1.4091 - 1.4410	421.70	392.30	382.55	377.90	373.00	368.95
1.4688	1 15/32	1.025	4 7/8	1	10 1/2	1 15/32	362147	4	362347	374.05	1.4411 - 1.4720	432.45	403.15	393.35	388.75	383.60	379.75
1.5000	1 1/2	1.050	4 7/8	1	10 1/2	1 1/2	362148	4	362348	381.95	1.4721 - 1.5030	440.30	411.10	401.35	396.65	391.85	387.85

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CARBIDE TIPPED CORE DRILLS FOR STEEL

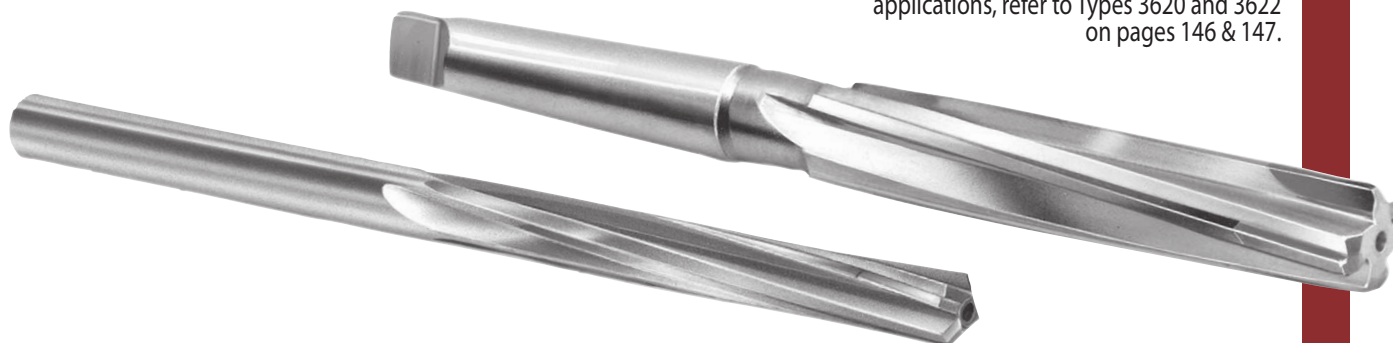
METRIC

TYPE 3621 - FOUR SPIRAL FLUTES - STRAIGHT SHANK

TYPE 3623 - FOUR SPIRAL FLUTES - TAPER SHANK

Carbide tips brazed to hardened tool steel bodies. Right spiral flutes with 118° included chamfer angle.

Core drills, with increased flute capacity, remove more material from a cored or cast hole than a reamer. This often eliminates a final reaming or boring operation. Types 3621 and 3623 core drills are specifically designed for steel applications. For cast iron, non-ferrous and high temperature alloy applications, refer to Types 3620 and 3622 on pages 146 & 147.



Tool and shank diameter tolerances: +.000"/-.001".

Tool diameter in millimeters with all other dimensions in inches.

TOOL DIAMETER		MIN. CUT DIAM.	LENGTH			TYPE 3621		TYPE 3623		BOTH TYPES PRICE	METRIC SIZE RANGE	PRICE EACH - FINISHED TO METRIC SIZE						
mm	INCH		FLT	CARB	OAL	SHANK DIAM.	EDP NO.	MORSE TAPER	EDP NO.			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
9.0*	.3543	.262	3 1/2	5/8	6 3/4	3/8	3621090	1	3623090	\$194.95	8.815 - 9.601	\$238.90	\$209.85	\$200.10	\$195.25	\$190.35	\$186.35	\$180.60
10.0*	.3937	.284	3 5/8	5/8	7	13/32	3621100	1	3623100	194.95	9.602 - 10.389	238.90	209.85	200.10	195.25	190.35	186.35	180.60
11.0*	.4331	.306	3 7/8	3/4	7 1/4	7/16	3621110	1	3623110	194.95	10.390 - 11.201	238.90	209.85	200.10	195.25	190.35	186.35	180.60
-*	-	.328	4 1/8	3/4	7 1/2	15/32	3621119	1	3623119	-	11.202 - 11.989	238.90	209.85	200.10	195.25	190.35	186.35	180.60
12.0	.4724	.350	4 3/8	3/4	8 1/4	1/2	3621120	2	3623120	194.95	11.990 - 12.776	238.90	209.85	200.10	195.25	190.35	186.35	180.60
13.0	.5118	.372	4 3/8	3/4	8 1/4	17/32	3621130	2	3623130	195.60	12.777 - 13.564	239.60	210.30	200.50	195.80	190.95	186.75	181.30
14.0	.5512	.394	4 3/8	3/4	8 1/4	9/16	3621140	2	3623140	195.60	13.565 - 14.376	239.60	210.30	200.50	195.80	190.95	186.75	181.30
15.0	.5906	.416	4 3/8	3/4	8 1/4	19/32	3621150	2	3623150	204.50	14.377 - 15.164	248.40	219.30	209.65	204.70	200.05	195.80	190.20
-	-	.438	4 3/8	3/4	8 1/4	5/8	3621159	2	3623159	-	15.165 - 15.951	248.40	219.30	209.65	204.70	200.05	195.80	190.20
16.0	.6299	.459	4 3/8	3/4	8 1/4	21/32	3621160	2	3623160	206.55	15.952 - 16.739	250.45	221.30	211.60	206.75	202.00	197.85	192.25
17.0	.6693	.481	4 3/8	7/8	8 1/4	11/16	3621170	2	3623170	208.30	16.740 - 17.551	252.20	223.10	213.35	208.50	203.60	199.45	194.00
18.0	.7087	.503	4 3/8	7/8	8 1/4	23/32	3621180	2	3623180	208.30	17.552 - 18.339	252.20	223.10	213.35	208.50	203.60	199.45	194.00
19.0	.7480	.525	4 3/8	7/8	8 1/4	3/4	3621190	2	3623190	208.30	18.340 - 19.126	252.20	223.10	213.35	208.50	203.60	199.45	194.00
-	-	.547	4 3/8	7/8	8 1/4	25/32	3621199	2	3623199	-	19.127 - 19.914	256.20	227.10	217.50	212.50	207.60	203.60	198.00
20.0	.7874	.569	4 7/8	7/8	9 1/2	13/16	3621200	3	3623200	217.80	19.915 - 20.726	261.65	232.55	222.80	217.95	213.25	209.10	203.35
21.0	.8268	.591	4 7/8	7/8	9 1/2	27/32	3621210	3	3623210	228.40	20.727 - 21.514	272.40	243.20	233.45	228.60	223.80	219.70	214.15
22.0	.8661	.612	4 7/8	7/8	9 1/2	7/8	3621220	3	3623220	228.40	21.515 - 22.301	272.40	243.20	233.45	228.60	223.80	219.70	214.15
23.0	.9055	.634	4 7/8	7/8	9 1/2	29/32	3621230	3	3623230	229.75	22.302 - 23.089	273.65	244.65	234.65	230.05	225.05	221.05	215.40
-	-	.656	4 7/8	7/8	9 1/2	15/16	3621239	3	3623239	-	23.090 - 23.901	273.65	244.65	234.65	230.05	225.05	221.05	215.40
24.0	.9449	.678	4 7/8	7/8	9 1/2	31/32	3621240	3	3623240	237.40	23.902 - 24.689	281.45	252.35	242.60	237.70	232.70	228.70	223.15
25.0	.9843	.700	4 7/8	7/8	9 1/2	1	3621250	3	3623250	241.60	24.690 - 25.476	285.60	256.35	246.70	241.75	237.00	232.75	227.25
26.0	1.0236	.722	4 7/8	7/8	9 1/2	1 1/32	3621260	3	3623260	243.30	25.477 - 26.264	287.35	258.10	248.25	243.50	238.75	234.60	229.05
27.0	1.0630	.744	4 7/8	7/8	9 1/2	1 1/16	3621270	3	3623270	246.40	26.265 - 27.076	290.45	261.25	251.50	246.70	241.70	237.70	232.15
-	-	.766	4 7/8	1	10 1/2	1 3/32	3621279	4	3623279	-	27.077 - 27.864	327.90	298.70	289.00	284.10	279.35	275.10	269.60
28.0	1.1024	.787	4 7/8	1	10 1/2	1 1/8	3621280	4	3623280	295.95	27.865 - 28.651	339.90	310.80	300.95	296.30	291.20	287.35	281.60
29.0	1.1417	.809	4 7/8	1	10 1/2	1 5/32	3621290	4	3623290	308.30	28.652 - 29.439	352.15	323.10	313.20	308.50	303.60	299.60	293.95
30.0	1.1811	.831	4 7/8	1	10 1/2	1 3/16	3621300	4	3623300	316.70	29.440 - 30.239	360.70	331.50	321.85	317.00	312.00	307.90	302.40
31.0	1.2205	.853	4 7/8	1	10 1/2	1 7/32	3621310	4	3623310	317.80	30.240 - 31.039	361.65	332.70	322.75	318.05	313.05	309.20	303.45
-	-	.875	4 7/8	1	10 1/2	1 1/4	3621319	4	3623319	-	31.040 - 31.826	362.80	333.70	323.95	319.10	314.25	310.05	304.45
32.0	1.2598	.897	4 7/8	1	10 1/2	1 9/32	3621320	4	3623320	340.10	31.827 - 32.614	384.25	355.15	345.20	340.60	335.50	331.50	325.90
33.0	1.2992	.919	4 7/8	1	10 1/2	1 5/16	3621330	4	3623330	349.20	32.615 - 33.401	393.10	364.00	354.10	349.40	344.50	340.60	334.85
34.0	1.3386	.940	4 7/8	1	10 1/2	1 11/32	3621340	4	3623340	356.30	33.402 - 34.214	400.10	371.05	361.30	356.55	351.70	347.55	341.85
35.0	1.3780	.962	4 7/8	1	10 1/2	1 3/8	3621350	4	3623350	364.30	34.215 - 35.001	408.40	379.15	369.45	364.55	359.70	355.55	350.10
-	-	.984	4 7/8	1	10 1/2	1 13/32	3621359	4	3623359	-	35.002 - 35.789	416.25	387.05	377.40	372.55	367.70	363.55	357.95
36.0	1.4173	1.006	4 7/8	1	10 1/2	1 7/16	3621360	4	3623360	382.55	35.790 - 36.601	426.60	397.45	387.60	382.85	377.90	374.00	368.30
37.0	1.4567	1.025	4 7/8	1	10 1/2	1 15/32	3621370	4	3623370	393.35	36.602 - 37.389	437.20	408.15	398.25	393.65	388.75	384.65	379.05
38.0	1.4961	1.050	4 7/8	1	10 1/2	1 1/2	3621380	4	3623380	401.35	37.390 - 38.176	445.20	416.05	406.35	401.50	396.65	392.65	386.90

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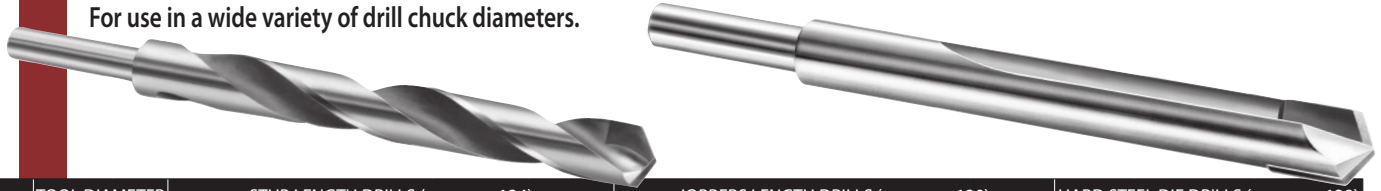
*3 flutes.

Made in U.S.A.

CARBIDE TIPPED REDUCED SHANK DIAMETER DRILLS

STUB LENGTH, JOBBERS LENGTH & HARD STEEL DIE DRILLS
1/4", 3/8", 1/2" OR 3/4" SHANK DIAMETER

For use in a wide variety of drill chuck diameters.



SHANK DIAM.	TOOL DIAMETER		STUB LENGTH DRILLS (see page 134)						JOBBERS LENGTH DRILLS (see page 130)						HARD STEEL DIE DRILLS (see page 138)		
	DECIMAL	FRAC.	OVERALL LENGTH	118° PT.		135° PT.		OVERALL LENGTH	118° PT.		135° PT.		OVERALL LENGTH	NEG. 118° PT. TYPE 3670 EDP NO.	PRICE EACH		
				TYPE 3640 EDP NO.	PRICE EACH	TYPE 3641 EDP NO.	PRICE EACH		TYPE 3600 EDP NO.	PRICE EACH	TYPE 3601 EDP NO.	PRICE EACH					
1/4	.2812	9/32	2 1/16	3640618	\$58.15	3641618	\$67.50	4 1/4	3600618	\$57.55	3601618	\$66.70	-	-	-	-	-
	.3125	5/16	2 13/16	3640620	61.75	3641620	71.80	4 1/2	3600620	62.15	3601620	72.25	4 1/2	3670620	\$94.20		
	.3438	11/32	3	3640622	71.95	3641622	83.30	4 3/4	3600622	66.05	3601622	76.95	4 3/4	3670622	100.30		
	.3750	3/8	3 1/8	3640624	73.65	3641624	85.60	5	3600624	70.25	3601624	81.70	5	3670624	107.80		
	.4062	13/32	3 5/16	3640626	87.40	3641626	101.70	5 1/4	3600626	76.35	3601626	88.90	5 1/4	3670626	126.40		
	.4375	7/16	3 7/16	3640628	93.35	3641628	103.55	5 1/2	3600628	83.15	3601628	96.55	5 1/2	3670628	146.45		
	.4688	15/32	3 3/8	3640630	132.90	3641630	154.60	5 3/4	3600630	93.50	3601630	108.35	5 3/4	3670630	160.90		
	.5000	1/2	3 3/4	3640632	127.15	3641632	147.85	6	3600632	115.05	3601632	121.20	6	3670632	188.70		
3/8	.4062	13/32	3 5/16	3640726	87.40	3641726	101.70	5 1/4	3600726	76.35	3601726	88.90	-	-	-	-	-
	.4375	7/16	3 7/16	3640728	93.35	3641728	103.55	5 1/2	3600728	83.15	3601728	96.55	5 1/2	3670728	146.45		
	.4688	15/32	3 3/8	3640730	132.90	3641730	154.60	5 3/4	3600730	93.50	3601730	108.35	5 3/4	3670730	160.90		
	.5000	1/2	3 3/4	3640732	127.15	3641732	147.85	6	3600732	115.05	3601732	121.20	6	3670732	188.70		
	.5312	17/32	3 7/8	3640734	158.60	3641734	178.65	6 5/8	3600734	149.75	3601734	174.05	6	3670734	216.45		
	.5625	9/16	4	3640736	158.60	3641736	178.65	6 3/4	3600736	151.20	3601736	175.55	6	3670736	223.95		
	.5938	19/32	4 1/8	3640738	181.90	3641738	205.05	7 1/8	3600738	162.40	3601738	188.30	7	3670738	236.95		
	.6250	5/8	4 1/4	3640740	181.90	3641740	205.05	7 1/8	3600740	184.00	3601740	213.25	7	3670740	244.20		
	.6562	21/32	4 1/2	3640742	218.70	3641742	246.70	7 1/8	3600742	186.95	3601742	216.90	7 1/2	3670742	261.25		
	.6875	11/16	4 5/8	3640744	224.40	3641744	253.20	7 5/8	3600744	190.60	3601744	221.05	7 1/2	3670744	268.40		
	.7188	23/32	4 3/4	3640746	254.45	3641746	295.45	7 5/8	3600746	225.00	3601746	250.25	8	3670746	281.15		
	.7500	3/4	5	3640748	255.05	3641748	287.30	8	3600748	229.65	3601748	255.30	8	3670748	288.65		
1/2	.5312	17/32	3 7/8	3640834	158.60	3641834	178.65	6 5/8	3600834	149.75	3601834	174.05	-	-	-	-	-
	.5625	9/16	4	3640836	158.60	3641836	178.65	6 5/8	3600836	151.20	3601836	175.55	6	3670836	223.95		
	.5938	19/32	4 1/8	3640838	181.90	3641838	205.05	7 1/8	3600838	162.40	3601838	188.30	7	3670838	236.95		
	.6250	5/8	4 1/4	3640840	181.90	3641840	205.05	7 1/8	3600840	184.00	3601840	213.25	7	3670840	244.20		
	.6562	21/32	4 1/2	3640842	218.70	3641842	246.70	7 1/8	3600842	186.95	3601842	216.90	7 1/2	3670842	261.25		
	.6875	11/16	4 5/8	3640844	224.40	3641844	253.20	7 5/8	3600844	190.60	3601844	221.05	7 1/2	3670844	268.40		
	.7188	23/32	4 3/4	3640846	254.45	3641846	295.45	7 5/8	3600846	225.00	3601846	250.25	8	3670846	281.15		
	.7500	3/4	5	3640848	255.05	3641848	287.30	8	3600848	229.65	3601848	255.30	8	3670848	288.65		
	.8125	13/16	5 1/4	3640852	315.20	3641852	355.75	-	-	-	-	-	8	3670852	517.65		
	.8750	7/8	5 1/2	3640856	346.00	3641856	390.00	-	-	-	-	-	8	3670856	528.45		
	.9375	15/16	5 3/4	3640860	371.40	3641860	419.00	-	-	-	-	-	8	3670860	588.85		
	1.0000	1	6	3640864	392.35	3641864	442.70	-	-	-	-	-	8	3670864	624.70		
3/4	.8125	13/16	5 1/4	3640952	315.20	3641952	355.75	-	-	-	-	-	8	3670952	517.65		
	.8750	7/8	5 1/2	3640956	346.00	3641956	390.00	-	-	-	-	-	8	3670956	528.45		
	.9375	15/16	5 3/4	3640960	371.40	3641960	419.00	-	-	-	-	-	8	3670960	588.85		
	1.0000	1	6	3640964	392.35	3641964	442.70	-	-	-	-	-	8	3670964	624.70		
	1.0625	1 1/16	6 1/4	3640968	491.70	3641968	554.35	-	-	-	-	-	-	-	-		
	1.1250	1 1/8	6 3/8	3640972	546.00	3641972	615.55	-	-	-	-	-	-	-	-		
	1.1875	1 3/16	6 5/8	3640976	666.20	3641976	746.80	-	-	-	-	-	-	-	-		
	1.2500	1 1/4	6 3/4	3640980	666.20	3641980	746.80	-	-	-	-	-	-	-	-		

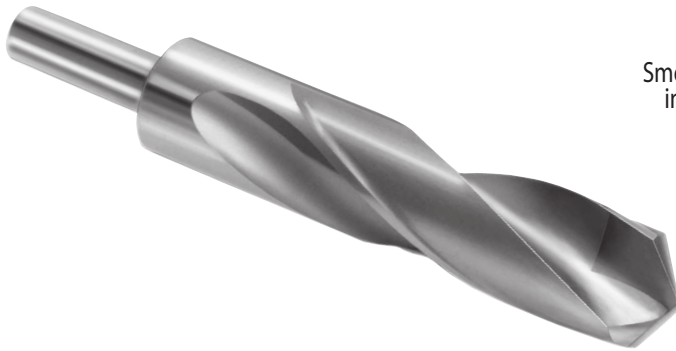
DRILL TOLERANCES & STANDARDS

DRILL DIAMETER RANGE (INCH)	DRILL DIAMETER TOLERANCES	SHANK DIAMETER TOLERANCES	INCLUDED ANGLE	LIP HEIGHT T.I.V.	ALL DIMENSIONAL & ELEMENT TOLERANCES CONFORM TO ONE OR MORE OF THE FOLLOWING STANDARDS, UNLESS OTHERWISE SPECIFIED ON SELECTED TYPES: • ASME/ANSI B94.11M • ISO - INTERNATIONAL STANDARDS ORGANIZATION • NAS 907 - NATIONAL AEROSPACE STANDARDS • USCTI - UNITED STATES CUTTING TOOL INSTITUTE
THRU 1/8"	+.0000"/-.0005"	-.0000"/-.0025"	+5°/-5°	.0020"	
OVER 1/8" THRU 1/4"	+.0000"/-.0007"	-.0005"/-.0030"	+5°/-5°	.0030"	
OVER 1/4" THRU 1/2"	+.0000"/-.0010"	-.0005"/-.0045"	+5°/-5°	.0040"	
OVER 1/2" THRU 1"	+.0000"/-.0012"	-.0005"/-.0030"	+3°/-3°	.0050"	
OVER 1" THRU 1 1/2"	+.0000"/-.0015"	-.0005"/-.0030"	+3°/-3°	.0060"	

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CARBIDE TIPPED SILVER & DEMING DRILLS

TYPE 3616 - 118° POINT



Carbide tip brazed to hardened tool steel bodies.

Smooth flutes for effective chip flow. Precision ground to insure concentricity of tip & body. For drilling cast iron, non-ferrous metals and non-metals. Shank size of 1/2" x 2 1/4" allows larger diameter drills to be used in 1/2" and larger drill chucks. (Not usually recommended for steel.)

TYPE 3618 - 135° SPLIT POINT DISCONTINUED WHILE SUPPLIES LAST

Same as Type 3616 above, except designed for drilling abrasive and tough materials.

For drill tolerances, see page 150.

TOOL DIAMETER		LENGTH		118° POINT		135° POINT	
DECIMAL	FRACTIONAL	FLUTE	OVERALL	TYPE 3616 EDP NO.	PRICE EACH	TYPE 3618 EDP NO.	PRICE EACH
.5000	1/2	3 1/8	6	361632	\$96.45	361832	\$101.30
.5312	17/32	3 1/8	6	361634	141.05	361834	148.25
.5625	9/16	3 1/8	6	361636	146.20	361836	153.60
.5938	19/32	3 1/8	6	361638	152.05	361838	159.65
.6250	5/8	3 1/8	6	361640	169.05	361840	177.35
.6562	21/32	3 1/8	6	361642	183.25	361842	192.35
.6875	11/16	3 1/8	6	361644	190.35	361844	200.05
.7188	23/32	3 1/8	6	361646	197.45	361846	207.35
.7500	3/4	3 1/8	6	361648	206.90	361848	217.45
.7812	25/32	3 1/8	6	361650	228.15	361850	239.60
.8125	13/16	3 1/8	6	361652	228.75	361852	240.25
.8438	27/32	3 1/8	6	361654	228.75	361854	240.25
.8750	7/8	3 1/8	6	361656	238.00	361856	249.85

TOOL DIAMETER		LENGTH		118° POINT		135° POINT	
DECIMAL	FRACTIONAL	FLUTE	OVERALL	TYPE 3616 EDP NO.	PRICE EACH	TYPE 3618 EDP NO.	PRICE EACH
.9062	29/32	3 1/8	6	361658	\$243.65	361858	\$255.90
.9375	15/16	3 1/8	6	361660	246.15	361860	258.40
.9688	31/32	3 1/8	6	361662	254.45	361862	267.10
1.0000	1	3 1/8	6	361664	259.90	361864	273.00
1.0312	1 1/32	3 1/8	6	361666	250.85	361866	263.45
1.0625	1 1/16	3 1/8	6	361668	272.10	361868	285.60
1.0938	1 3/32	3 1/8	6	361670	278.50	361870	292.50
1.1250	1 1/8	3 1/8	6	361672	284.05	361872	298.10
1.1562	1 5/32	3 1/8	6	361674	344.65	361874	361.95
1.1875	1 3/16	3 1/8	6	361676	350.95	361876	368.45
1.2188	1 7/32	3 1/8	6	361678	368.40	361878	387.00
1.2500	1 1/4	3 1/8	6	361680	336.40	361880	353.30
-	-	-	-	-	-	-	-

CARBIDE TIPPED CNC SPOTTING/CENTERING DRILLS

DISCONTINUED - WHILE SUPPLIES LAST



TYPE 3677 - REGULAR LENGTH - 90° POINT

TYPE 3678 - REGULAR LENGTH - 120° POINT

TYPE 3679 - REGULAR LENGTH - 140° POINT

Carbide tip brazed to hardened tool steel bodies.

Cuts only to depth of point. Excellent for CNC spot facing, centering and chamfering. Tool diameter not cleared for drilling holes.

TYPE 3647 - SHORT LENGTH - 90° POINT

TYPE 3648 - SHORT LENGTH - 120° POINT

TYPE 3649 - SHORT LENGTH - 140° POINT

Same as Types 3677, 3678 & 3679 above, except shorter length.

While Supplies Last. REGULAR LENGTH

TOOL DIAMETER		LENGTH		90° POINT	120° POINT	140° POINT	ALL TYPES
DECIMAL	FRACTIONAL	FLUTE	OVERALL	TYPE 3677 EDP NO.	TYPE 3678 EDP NO.	TYPE 3679 EDP NO.	PRICE
.2500	1/4	1	4	367716	367816	367916	\$136.45
.3750	3/8	1 1/8	5	367724	367824	367924	159.30
.5000	1/2	1 1/2	6	367732	367832	367932	214.15
.6250	5/8	1 3/8	7	367740	367840	367940	310.20
.7500	3/4	1 7/8	8	367748	367848	367948	359.85
1.0000	1	2 1/4	8	367764	367864	367964	477.10

While Supplies Last. SHORT LENGTH

TOOL DIAMETER		LENGTH		90° POINT	120° POINT	140° POINT	ALL TYPES
DECIMAL	FRACTIONAL	FLUTE	OVERALL	TYPE 3647 EDP NO.	TYPE 3648 EDP NO.	TYPE 3649 EDP NO.	PRICE
.2500	1/4	1	2 1/2	364716	364816	364916	\$129.65
.3750	3/8	1 1/8	3 3/8	364724	364824	364924	151.35
.5000	1/2	1 1/2	3 3/4	364732	364832	364932	203.60
.6250	5/8	1 3/8	4 1/4	364740	364840	364940	294.75
.7500	3/4	1 7/8	5	364748	364848	364948	341.95
1.0000	1	2 1/4	6	364764	364864	364964	453.15

SINGLE POINT TOOLS WITH PREMIUM CARBIDE GRADE

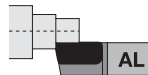
TYPE 3980 - SILVER SHANK 883 / PREMIUM C2 CARBIDE GRADE

Carbide tip brazed to steel bodies. For machining non-ferrous materials and cast iron.



0° SIDE CUTTING EDGE ANGLE
For machining to a square shoulder.

TOOL TYPE & SIZE NO.	883 / PREMIUM C2*		370 / PREMIUM C5-C6*		SHANK DIMENSION			STD. PKG. QTY.
	EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	W	H	L	
AR-4	398AR04	\$17.30	393AR04	\$12.65	1/4	1/4	2	12
AR-5	398AR05	15.25	393AR05	13.45	5/16	5/16	2 1/4	12
AR-6	398AR06	15.55	393AR06	13.70	3/8	3/8	2 1/2	12
AR-8	398AR08	14.35	393AR08	14.35	1/2	1/2	3 1/2	12
AR-10	398AR10	21.30	393AR10	19.75	5/8	5/8	4	12
AR-12	398AR12	27.35	393AR12	24.50	3/4	3/4	4 1/2	12
AR-16	398AR16	50.20	393AR16	48.90	1	1	7	6



TYPE 3930 - GOLD SHANK 370 / PREMIUM C5-C6 CARBIDE GRADE

Carbide tip brazed to steel bodies. For machining most steels.



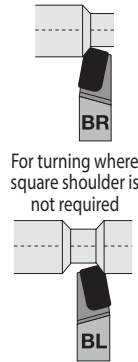
0° SIDE CUTTING EDGE ANGLE
For machining to a square shoulder.

TOOL TYPE & SIZE NO.	883 / PREMIUM C2*		370 / PREMIUM C5-C6*		SHANK DIMENSION			STD. PKG. QTY.
	EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	W	H	L	
AL-4	398AL04	\$17.30	393AL04	\$12.65	1/4	1/4	2	12
AL-5	398AL05	15.25	393AL05	13.45	5/16	5/16	2 1/4	12
AL-6	398AL06	15.55	393AL06	13.70	3/8	3/8	2 1/2	12
AL-8	398AL08	14.35	393AL08	14.35	1/2	1/2	3 1/2	12
AL-10	398AL10	20.20	393AL10	19.75	5/8	5/8	4	12
AL-12	398AL12	26.10	393AL12	25.85	3/4	3/4	4 1/2	12
AL-16	398AL16	50.90	393AL16	50.90	1	1	7	6



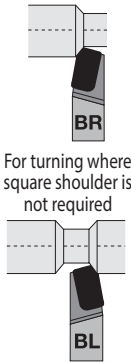
15° SIDE CUTTING EDGE ANGLE
For interrupted or irregular cuts.

TOOL TYPE & SIZE NO.	883 / PREMIUM C2*		370 / PREMIUM C5-C6*		SHANK DIMENSION			STD. PKG. QTY.
	EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	W	H	L	
BL-4	398BL04	\$17.30	393BL04	\$12.65	1/4	1/4	2	12
BL-5	398BL05	15.25	393BL05	13.45	5/16	5/16	2 1/4	12
BL-6	398BL06	15.55	393BL06	13.70	3/8	3/8	2 1/2	12
BL-7	398BL07	16.80	393BL07	14.90	7/16	7/16	3	12
BL-8	398BL08	14.35	393BL08	14.35	1/2	1/2	3 1/2	12
BL-10	398BL10	20.20	393BL10	19.75	5/8	5/8	4	12
BL-12	398BL12	26.10	393BL12	25.85	3/4	3/4	4 1/2	12
BL-16	398BL16	50.90	393BL16	50.90	1	1	7	6



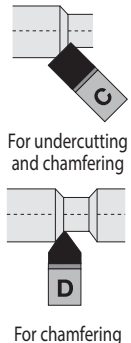
15° SIDE CUTTING EDGE ANGLE
For interrupted or irregular cuts.

TOOL TYPE & SIZE NO.	883 / PREMIUM C2*		370 / PREMIUM C5-C6*		SHANK DIMENSION			STD. PKG. QTY.
	EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	W	H	L	
BR-4	398BR04	\$17.30	393BR04	\$12.65	1/4	1/4	2	12
BR-5	398BR05	15.25	393BR05	13.45	5/16	5/16	2 1/4	12
BR-6	398BR06	15.55	393BR06	13.70	3/8	3/8	2 1/2	12
BR-7	398BR07	16.80	393BR07	14.90	7/16	7/16	3	12
BR-8	398BR08	14.35	393BR08	14.35	1/2	1/2	3 1/2	12
BR-10	398BR10	21.30	393BR10	19.75	5/8	5/8	4	12
BR-12	398BR12	27.35	393BR12	24.50	3/4	3/4	4 1/2	12
BR-16	398BR16	50.20	393BR16	48.90	1	1	7	6



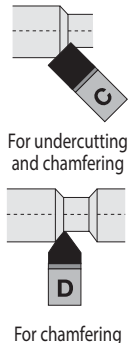
0° SQUARE NOSE
No nose radius.

TOOL TYPE & SIZE NO.	883 / PREMIUM C2*		370 / PREMIUM C5-C6*		SHANK DIMENSION			STD. PKG. QTY.
	EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	W	H	L	
C-4	398C04	\$11.40	393C04	\$11.40	1/4	1/4	2	12
C-5	398C05	12.55	393C05	12.10	5/16	5/16	2 1/4	12
C-6	398C06	16.25	393C06	13.45	3/8	3/8	2 1/2	12
C-7	398C07	12.40	393C07	17.15	7/16	7/16	3	12
C-8	398C08	19.95	393C08	18.45	1/2	1/2	3 1/2	12
C-10	398C10	22.45	393C10	24.50	5/8	5/8	4	12
C-12	398C12	31.00	393C12	35.15	3/4	3/4	4 1/2	12
C-16	398C16	64.35	393C16	61.75	1	1	7	6



40° SIDE CUTTING EDGE ANGLE
80° pointed nose.

TOOL TYPE & SIZE NO.	883 / PREMIUM C2*		370 / PREMIUM C5-C6*		SHANK DIMENSION			STD. PKG. QTY.
	EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	W	H	L	
D-4	398D04	\$10.60	393D04	\$10.60	1/4	1/4	2	12
D-5	398D05	12.25	393D05	12.65	5/16	5/16	2 1/4	12
D-6	398D06	12.55	393D06	13.55	3/8	3/8	2 1/2	12
D-7	398D07	17.15	-	-	7/16	7/16	3	12
D-8	398D08	16.50	393D08	17.45	1/2	1/2	3 1/2	12
D-10	398D10	23.05	393D10	25.55	5/8	5/8	4	12
D-12	398D12	32.95	393D12	28.95	3/4	3/4	4 1/2	12
D-16	398D16	49.00	393D16	50.60	1	1	7	6

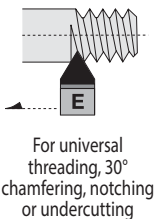


SINGLE POINT TOOLS WITH PREMIUM CARBIDE GRADE

TYPE 3980 - SILVER SHANK 883 / PREMIUM C2 CARBIDE GRADE

Carbide tip brazed to steel bodies. For machining non-ferrous materials and cast iron.

TOOL TYPE & SIZE NO.	883 / PREMIUM C2*		370 / PREMIUM C5-C6*		SHANK DIMENSION			STD. PKG. QTY.
	EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	W	H	L	
E-4	398E04	\$10.60	393E04	\$10.60	1/4	1/4	2	12
E-5	398E05	11.55	393E05	11.55	5/16	5/16	2 1/4	12
E-6	398E06	12.00	393E06	11.70	3/8	3/8	2 1/2	12
E-7	398E07	18.60	393E07	22.30	7/16	7/16	3	12
E-8	398E08	27.60	393E08	14.80	1/2	1/2	3 1/2	12
E-10	398E10	22.90	393E10	20.80	5/8	5/8	4	12
E-12	398E12	28.45	393E12	28.80	3/4	3/4	4 1/2	12
E-16	398E16	49.80	393E16	47.95	1	1	7	6

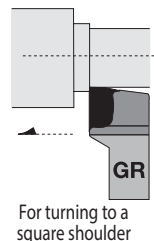


60° INCLUDED ANGLE
30° SIDE CUTTING EDGE ANGLE
For threading, chamfering, notching, or undercutting.



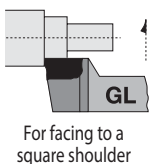
0° SIDE CUTTING EDGE ANGLE
Offset for facing or turning to a square shoulder or close to chuck jaws.

TOOL TYPE & SIZE NO.	883 / PREMIUM C2*		370 / PREMIUM C5-C6*		SHANK DIMENSION			STD. PKG. QTY.
	EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	W	H	L	
GR-8	398GR08	\$19.95	393GR08	\$19.00	1/2	1/2	3 1/2	12
GR-10	398GR10	29.95	393GR10	27.30	5/8	5/8	4	12
GR-12	398GR12	38.50	393GR12	34.00	3/4	3/4	4 1/2	6
GR-16	398GR16	81.05	393GR16	81.65	1	1	7	4



0° SIDE CUTTING EDGE ANGLE
Offset for facing or turning to a square shoulder or close to chuck jaws.

TOOL TYPE & SIZE NO.	883 / PREMIUM C2*		370 / PREMIUM C5-C6*		SHANK DIMENSION			STD. PKG. QTY.
	EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	W	H	L	
GL-8	398GL08	\$19.80	393GL08	\$19.50	1/2	1/2	3 1/2	12
GL-10	398GL10	28.75	393GL10	27.30	5/8	5/8	4	12
GL-12	398GL12	37.10	393GL12	36.60	3/4	3/4	4 1/2	6
GL-16	398GL16	78.60	393GL16	81.65	1	1	7	4



Carbide tip brazed to steel bodies. For machining non-ferrous materials and cast iron.



STANDARD CUTOFF TOOLS
For stock cut off and grooving solid bars.

Standard package quantity is 6.

TOOL TYPE & SIZE NO.	CUT OFF WIDTH	883 / PREMIUM C2*		370 / PREMIUM C5-C6*		SHANK DIMENSION		
		EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	W	H	L
CT-111	1/8	398CT01	\$25.65	393CT01	\$26.70	1/2	1	5
CT-122	3/16	398CT02	26.40	393CT02	27.20	1/2	1	5
CT-121	1/4	398CT03	27.30	393CT03	28.20	1/2	1	5
CT-120	5/16	398CT04	27.20	393CT04	28.20	1/2	1	5
CT-130	3/8	398CT13	32.95	393CT13	35.10	5/8	1 1/4	5
CT-140	3/8	398CT14	36.50	393CT14	37.80	3/4	1 1/2	6

Carbide tip brazed to steel bodies. For machining most steels.



STANDARD CUTOFF TOOLS
For stock cut off and grooving solid bars.

Standard package quantity is 6.

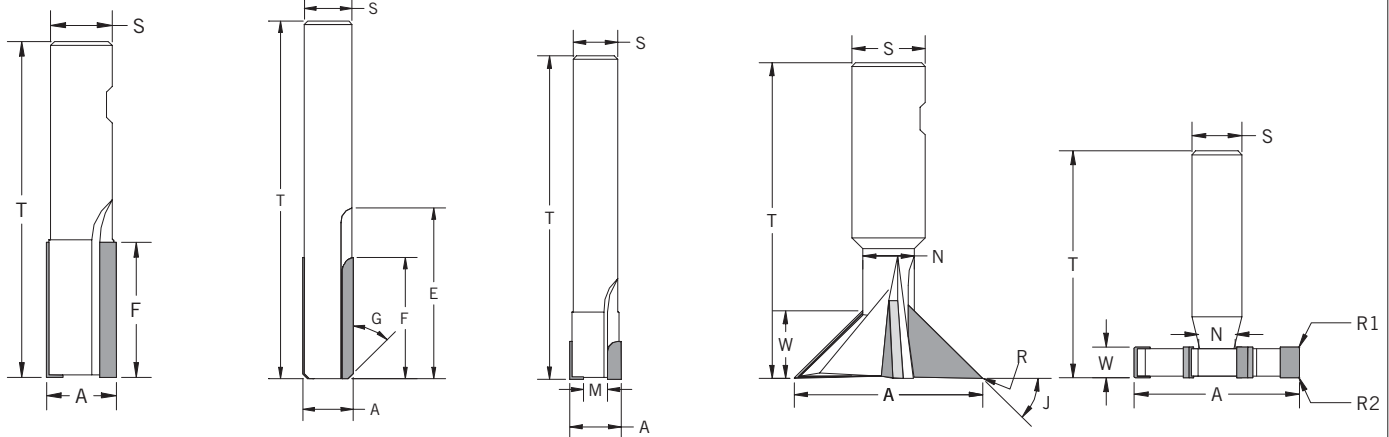
TOOL TYPE & SIZE NO.	CUT OFF WIDTH	883 / PREMIUM C2*		370 / PREMIUM C5-C6*		SHANK DIMENSION		
		EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	W	H	L
CTL-111	1/8	398CL01	\$25.65	393CL01	\$26.70	1/2	1	5
CTL-122	3/16	398CL02	26.40	393CL02	27.20	1/2	1	5
CTL-121	1/4	398CL03	27.30	393CL03	28.20	1/2	1	5
CTL-120	5/16	398CL04	27.20	393CL04	28.20	1/2	1	5
CTL-130	3/8	398CL13	32.95	393CL13	35.10	5/8	1 1/4	5
CTL-140	3/8	398CL14	36.50	393CL14	37.80	3/4	1 1/2	6

CARBIDE TIPPED SPECIALS QUOTE FORM - FAX TO 941-739-2827

LEXINGTON MANUFACTURES QUALITY SPECIALS TO MEET OUR CUSTOMERS' NEEDS.
BELOW IS INFORMATION NEEDED TO QUOTE SPECIALS. Email: quotes@lexingtoncutter.com

Name _____ Phone _____
Company _____ Fax _____
Full Address _____
Material Being Cut _____ Quantities _____

CARBIDE TIPPED - SHANK TYPE TOOLS



☐ END MILL

☐ REAMER

☐ COUNTERBORE

☐ DOVETAIL

☐ KEYSEAT

BODY OF TOOL

T= _____ Overall Length S= _____ Shank Diameter A= _____ Major Diameter

FLUTES

E= _____ Flute Length F= _____ Carbide Length G= _____ ° Chamfer Angle

☐ Straight Flutes

Number of Flutes _____

☐ Right Hand Cutting

☐ Right Hand Spiral _____ °

☐ Left Hand Cutting

☐ Left Hand Spiral _____ °

IF PILOTED

Head Diam. _____

Head Length _____

M= Min. Cutting Diam. _____

IF STEP REAMER

(Also see pages 104-106) Minor Diam. _____ Step Length _____ Step Angle _____ °

IF KEYSEAT

W= _____ Width

☐ Straight Tooth

R1= _____ Radius/Chamfer

N= _____ Neck Diameter

☐ Staggered Tooth

R2= _____ Radius/Chamfer

IF DOVETAIL

N= _____ Neck Diam. J= _____ ° Angle R= _____ Radius W= _____ Width

CARBIDE TIPPED - ARBOR TYPE TOOLS

D= _____ Cutter Diameter

W= _____ Cutter Width

A= _____ Arbor Hole Diam.

N= _____ # of Teeth

H= _____ Hub Diameter

K= _____ Keyway Size

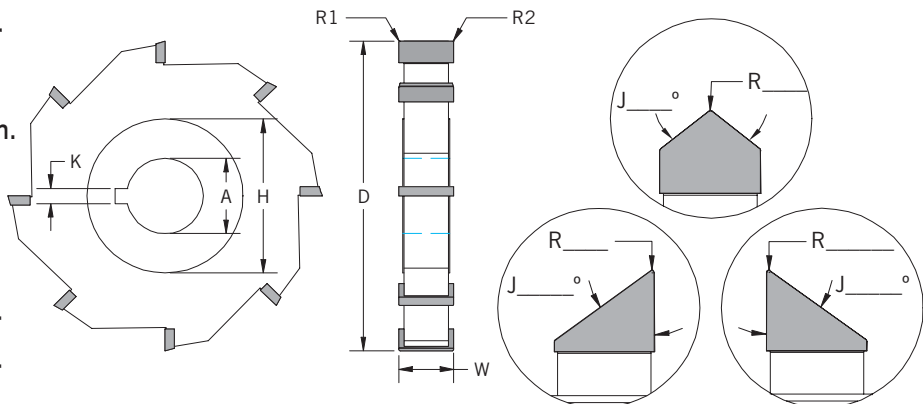
R1= _____ Radius/Chamfer

R2= _____ Radius/Chamfer

☐ Straight Tooth

☐ Straight Stagger

☐ Herringbone Stagger



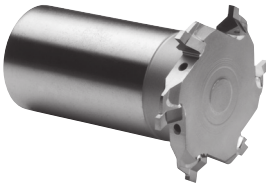
☐ MILLING CUTTER

☐ SLITTING SAW

☐ ANGLE CUTTER

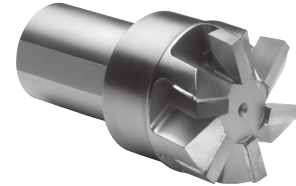
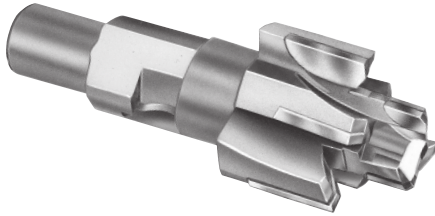
(Fill in "J" & "R")

DESIGN AND MANUFACTURING OF SPECIAL CUTTING TOOLS



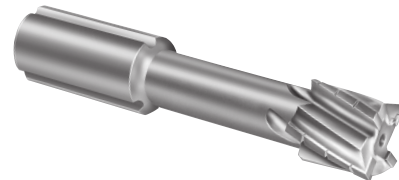
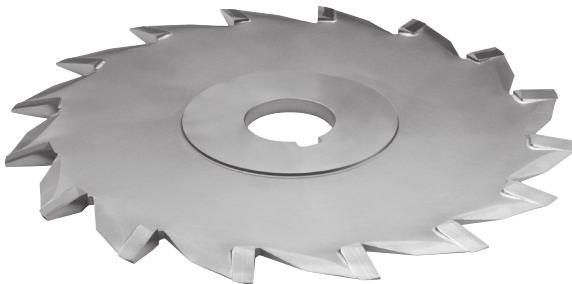
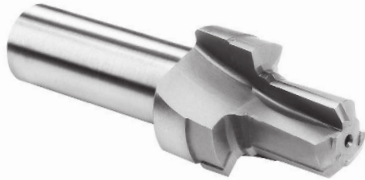
QUOTE FROM PRINT

Lexington Cutter will provide you with expedited quotes for specials from your tooling prints. Whether a complex blueprint or a simple sketch our staff will analyze your drawing and provide your quote typically within 1-2 business days.



QUOTE FROM DESCRIPTION

Many quotes for specials are supplied by description alone. These are normally standard tools with one or more non-standard features. Cutting diameter or width, shank diameter or length, chamfer or radii, arbor hole or locator pin, are just a few examples that can be accurately quoted by description.



QUOTE THROUGH DESIGN AND BUILD

Lexington Cutter's qualified staff can provide you with application support to recommend, design, and manufacture the right tool for your new or existing application. Provide us with a concept drawing of your new or existing application and we can work with you to develop or improve your current process. Often combination or step tools can be designed to eliminate steps and increase productivity. Our commitment to application specific tooling will place you a cut ahead of the competition.



ISO 9001:2008 REGISTERED FOR DESIGN AND DEVELOPMENT OF CUTTING TOOLS

Lexington Cutter is committed to continuous improvement in order to provide the necessary tools, equipment, and working environment to deliver high quality products that meet or exceed the expectations of our customers. Our factory houses over 100 machines tooled for the production of standard and specialty tooling. Lexington combines many well known manufacturing techniques such as Setup Reduction, Total Quality Management, Lean Production, Poka-Yoke, and Cellular Manufacturing into a production environment that thrives on high quality and continuous improvement.



INDEX BY TOOL TYPE NUMBER

The first 4 digits of the EDP number represent the Type of the tool. The remaining digits represent the size of the tool. Within each Type of tool are different sizes that have the same basic function and design. If you know the Type of the tool you are looking for, this table will take you to the page where you can find it. Types in this chart that are bold are new products for our main catalog.

TOOL TYPE	METRIC PAGE	FRAC. PAGE	TOOL TYPE	METRIC PAGE	FRAC. PAGE	TOOL TYPE	METRIC PAGE	FRAC. PAGE	TOOL TYPE	METRIC PAGE	FRAC. PAGE	TOOL TYPE	METRIC PAGE	FRAC. PAGE	TOOL TYPE	METRIC PAGE	FRAC. PAGE
END MILLS			REAMERS (CONT.)			REAMERS (CONT.)			COUNTERSINKS (CONT.)			60° ANGLE CUTTERS					
3300		31	3429h6	107	107	3483		99	3585		28	3724		27			
3302		32	3429EL		123	3483ST		126	3590		28	3726		27			
3304		32	3430	91	90	3483EL		122	3591		28	CHAMFER CUTTERS					
3305		32	3431		117	3484		99	DRILLS			3730		12			
3306		32	3432		100	3484ST		126	3600	131	130,150	3731		12			
3307		32	3433		101	3484EL		122	3601	131	130,150	3732		12			
3308		31	3434	111	110	3486		79	3610		140	3733		12			
3310		31	3434h6	104	104	3488		79	3611		140	DOVETAIL CUTTERS					
3312		29	3435	109	108	3490		115	3616		151	3734		13			
3314		29	3435h6	105	105	Semi Finished			69	3618		151	3735		13		
3318		29	3435EL		119	F & S Reamers			59	3620	147	146	3736		13		
3320		33	3436		100	COUNTERBORES				3621	149	148	3737		13		
3322		30	3437		101	3500		36	3622	147	146	CORNER ROUNDING					
3323		30	3438		100	3510	43	42	3623	149	148	3740		29			
3325		33	3439		101	3511	43	42	3630	133	132	3741		29			
3327		33	3440	91	90	3512	39	38	3631	133	132	DOUBLE ANGLE CUTTERS					
3337		30	3441		116	3513	37	37	3640	135	134,150	3746		12			
3350		31	3442		98	3514	39	38	3641	135	134,150	3747		12			
3353		30	3442ST		125	3515	37	37	3647		151	3748		12			
3355		30	3442EL		120	3516	41	40	3648		151	3749		12			
3375		33	3443		98	3518	41	40	3649		151	3750		27			
REAMERS			3443ST		125	3522		44	3650	143	142	3752		27			
3400	64	62-68	3443EL		120	F & S Counterbore			35	3652	143	142	3754		27		
3401		60	3444		98	SHELL MILLS				3654	145	144	PORT CONTOUR CUTTERS				
3402	71	70	3444ST		125	3530		27	3655	145	144	3780		34			
3407	93	92	3444EL		120	3531		27	3656		144	3781		34			
3408	93	92	3450	73	72-76	3532		27	3657		144	3786	34				
3409	93	92	3452	81	80	FACE MILLS				3658		141	3787	34			
3410	84	82	3453		97	3536		28	3660		136	SOLID CARBIDE					
3411		113	3454		97	3537		28	3661	137	136	3800		48, 50			
3411h6	106	106	3455		97	3538		28	3668		136	3801		48, 50			
3411EL		121	3457	95	94	MILLING CUTTERS			3670	137	138,150	3802		50			
3412		85	3457ST		124	3540		26	3671		138	3803		50			
3413		113	3457EL		118	3541		26	3672	137	138,150	3804	54	54-58			
3413h6	106	106	3458	95	94	3542		26	3673		138	3806		52			
3413EL		121	3458ST		124	3543		26	3674		139	3807		52			
3414	111	110	3458EL		118	3547		15	3675		139	3808		52			
3414h6	104	104	3459	95	94	SLITTING SAWS			3677		151	3809		52			
3415		113	3459ST		124	3550		16	3678		151	3810		49, 51			
3415h6	106	106	3459EL		118	3551		17	3679		151	3811		49, 51			
3415EL		121	3461		103	3552		16	3690		129	3812		51			
3416	109	108	3462		103	3553		17	3691		129	3813		51			
3416h6	105	105	3463		103	3554		16	3699		141	3816		53			
3416EL		119	3464		102	3556		17, 22-25	F & S Drills			3817		53			
3417		112	3465	87	86	3558		16	KEYSEAT CUTTERS			3820		49, 51			
3418		112	3466		102	3559		17-21	3700		8	3821		49, 51			
3419		112	3467	89	88	F & S Mills & Saws			14	3701		9	3822		51		
3420	84	83	3468		102	COUNTERSINKS				3702		10	3823		51		
3422		85	3472		96	3561		28	3703		11	3828		53			
3424	111	110	3473		96	3563		28	3704		7	3829		53			
3424h6	104	104	3474		96	COUNTERBORES				F & S Keyseats		6	3860		128		
3426	109	108	3476		61	3573		46	45° ANGLE CUTTERS			3893		139			
3426h6	105	105	3476 Set		61	3574		46	3714		27	SINGLE POINTS					
3426EL		119	3477		61	3575		47	3716		27	3930		152-153			
3427		114	3478		61	3576		47	RADIUS CUTTERS			3980		152-153			
3427h6	107	107	3479		61	3577		45	3718		12	Specials Quote Form			154		
3427EL		123	3480	77	78-79	3578		45	3719		12	Coating Guide			157		
3428		114	3481		116	COUNTERSINKS				T-SLOT CUTTERS							
3428h6	107	107	3482		99	3581		28	3720		13						
3428EL		123	3482ST		126	3583		28	3721		13						
3429		114	3482EL		122	3584		28									

COATINGS FOR LEXINGTON CARBIDE TIPPED TOOLS

TiN - TITANIUM NITRIDE	TiCN - TITANIUM CARBONITRIDE	AlTiN - ALUM. TITANIUM NITRIDE	ZrN - ZIRCONIUM NITRIDE
TiN - Titanium Nitride coating is still the most popular coating and provides the highest adhesion and ductility characteristics of any coating we offer. Hard (81 Rc), smooth, and with high thermal stability (550° C) TiN is an excellent choice for general purpose drilling, reaming, counterboring and milling a wide variety of materials.	TiCN - Titanium Carbonitride has a higher hardness (87 Rc) than TiN and has greater lubricity. TiCN should be used in applications where tool temperature can be controlled due to the relatively low oxidation temperature (400° C). Excellent resistance to wear and edge build-up in drilling, reaming, and wet milling applications with non-ferrous materials and cast iron.	AlTiN - Aluminum Titanium Nitride is an excellent choice when machining abrasive and high temperature applications over 800° C. It creates a hard aluminum oxide layer during the cutting process. Recommended for use when counterboring, drilling, milling, and reaming in all of our material classifications except Non-Ferrous.	ZrN - Zirconium Nitride is an excellent choice when machining plastics and non-ferrous materials. Very reliable coating when moderate temperatures are generated at the cutting edge. This coating offers a higher service temperature than TiCN.
TECHNICAL DATA	TECHNICAL DATA	TECHNICAL DATA	TECHNICAL DATA
Hardness (Vickers): 2300	Hardness (Vickers): 3000	Hardness (Vickers): 3600	Hardness (Vickers): 2500
Max. Service Temperature: 525° C (975° F)	Max. Service Temperature: 400° C (750° F)	Max. Service Temperature: 750° C (1380° F)	Max. Service Temperature: 600° C (1110° F)
Friction Coefficient: .50	Friction Coefficient: .40	Friction Coefficient: .60	Friction Coefficient: .50
Thickness 2-4 microns	Thickness 2-4 microns	Thickness 2-4 microns	Thickness 2-4 microns
Surface Roughness (R _a μM): .20	Surface Roughness (R _a μM): .17	Surface Roughness (R _a μM): .30	Surface Roughness (R _a μM): .20



COATING ADVANTAGES

- INCREASED TOOL LIFE
- GAINS IN PRODUCTIVITY
- IMPROVED FINISHES
- CONTROLLED TOLERANCES

AVAILABLE ON MOST TOOLS

WHY DO COATINGS WORK? COATINGS PROVIDE:

1. Thermal Insulation - Coatings deflect heat back into the chip which reduces tool temperature & increases tool life.
2. Mechanical Strength - Coatings resist abrasion and protect the carbide tip from wear.
3. Chemical Resistance - Coatings protect and stabilize the carbide substrate under chemically reactive conditions.

MATERIAL CLASSIFICATION	DRILLING	REAMING	COUNTERBORING	MILLING	
	WET	WET	WET	DRY	WET
NON-FERROUS - SOFT	ZrN	TiCN/ZrN	ZrN	ZrN	ZrN
NON-FERROUS - HARD	ZrN	TiCN/ZrN	ZrN	ZrN	ZrN
CAST IRON	AlTiN	TiCN/AlTiN	AlTiN	AlTiN	AlTiN
LOW CARBON STEELS	AlTiN	AlTiN	AlTiN	AlTiN	AlTiN
MEDIUM STRENGTH STEELS	AlTiN	AlTiN	AlTiN	AlTiN	AlTiN
HIGH STRENGTH STEELS	AlTiN	AlTiN	AlTiN	AlTiN	AlTiN
HIGH TEMPERATURE ALLOYS	AlTiN	AlTiN	AlTiN	*	*

*High Temperature Alloys should not be machined dry.

The coatings in the table at left represent first choice recommendations. Only after a trial run can you be certain that a specific coating is best. Lexington Cutter, Inc. uses coating service companies that allow a low temperature Physical Vapor Deposition (PVD) process specially designed for carbide tipped tools. Tools that are coated by someone other than through Lexington Cutter, Inc. will not be warranted.

LIMITED WARRANTY

Lexington Cutter, Inc. reserves the right to make any changes on the specifications, prices, or tolerances without notice.

WARNING - Because cutting tools may shatter or break, government regulations require the use of safety glasses and other safety equipment at all times in the vicinity of cutting tool use. Grinding of solid carbide or carbide tipped tools will produce carbide and braze dust that may be hazardous to your health. Use adequate ventilation and read the applicable "Material Safety Data Sheets."

LIMITED WARRANTY: Lexington Cutter, Inc. does not give any warranty on its products except as follows: Lexington Cutter, Inc. warrants to original equipment manufacturers, distributors and industrial and commercial users of its products that each new product manufactured or supplied by Lexington Cutter, Inc. shall be free from defects in material and workmanship. Lexington Cutter, Inc.'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 any such product which shall within one year from the date of sale by Lexington Cutter, Inc. be returned freight prepaid to Lexington Cutter, Inc. and which upon inspection is determined by Lexington Cutter, Inc. 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 application of cutting fluid; or which has been repaired or altered if such repair or alteration in the judgment of Lexington Cutter, Inc. would adversely affect performance of the product. Complete written information with respect to all such matters, including operating condition, machine setup, cutting fluid, cutting speed and feed rate, must be furnished to Lexington Cutter, Inc. as a prerequisite to its consideration of any claim or complaint under this warranty.

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NO MINIMUM ORDER

95% OF TOOLS IN STOCK

METRICS STOCKED

SPECIALS QUOTED

SOLD THROUGH INDUSTRIAL DISTRIBUTORS

NO RESTOCKING CHARGE ON STANDARDS WITHIN ONE YEAR

SAME DAY SHIPPING ON ORDERS RECEIVED BEFORE NOON EST

ISA MEMBER

USCTI MEMBER

ISO 9001 REGISTERED



FOUR TIME AMERICAN EAGLE AWARD WINNER

INCLUDING VALUE ADDED MANUFACTURER

PROUDLY MANUFACTURED IN THE USA & DISTRIBUTED AROUND THE WORLD

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