



LEXINGTON

CUTTER, INC.

YOUR VALUE ADDED PARTNER

2022

**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 Resharpending

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	Mild Strength Steels	High Strength Steels	High Temp. Alloys	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 Steel	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	-	-	-	-	-	-
NAS 897 - Expansion - Straight Shank - Non-Ferrous	3464	102									-	704	-	-	-	-	-	-
NAS 897 - Expansion - Straight Shank - Steel	3468	102									-	704	-	-	-	-	-	-
NAS 897 - Expansion - Taper Shank - Cast Iron	3462	103									-	716	-	-	-	-	-	-
NAS 897 - Expansion - Taper Shank - Non-Ferrous	3461	103									-	716	-	-	-	-	-	-
NAS 897 - Expansion - Taper Shank - Steel	3463	103									-	716	-	-	-	-	-	-
NAS 897 - Left Spiral Flute Long Carbide - Straight Shank - Cast Iron	3483	99									-	-	-	-	-	-	-	-
NAS 897 - Left Spiral Flute Long Carbide - Straight Shank - Non-Ferrous	3482	99									-	-	-	-	-	-	-	-
NAS 897 - Left Spiral Flute Long Carbide - Straight Shank - Steel	3484	99									-	-	-	-	-	-	-	-
NAS 897 - Left Spiral Flutes - Straight Shank - Cast Iron	3437	101									-	4709	-	-	-	-	-	-
NAS 897 - Left Spiral Flutes - Straight Shank - Non-Ferrous	3433	101									-	4709	-	-	-	-	-	-
NAS 897 - Left Spiral Flutes - Straight Shank - Steel	3439	101									-	4709	-	-	-	-	-	-
NAS 897 - Right Spiral Flute Long Carbide - Straight Shank - Cast Iron	3443	98									-	-	-	-	-	-	-	-
NAS 897 - Right Spiral Flute Long Carbide - Straight Shank - Non-Ferrous	3442	98									-	-	-	-	-	-	-	-
NAS 897 - Right Spiral Flute Long Carbide - Straight Shank - Steel	3444	98									-	-	-	-	-	-	-	-
NAS 897 - Right Spiral Flutes - Straight Shank - Cast Iron	3436	100									-	4711	-	-	-	-	-	-
NAS 897 - Right Spiral Flutes - Straight Shank - Non-Ferrous	3432	100									-	4711	-	-	-	-	-	-
NAS 897 - Right Spiral Flutes - Straight Shank - Steel	3438	100									-	4711	-	-	-	-	-	-
NAS 897 - Straight Flute Long Carbide - Straight Shank - Cast Iron	3458	94	95								-	-	-	-	-	-	-	-
NAS 897 - Straight Flute Long Carbide - Straight Shank - Non-Ferrous	3457	94	95								-	-	-	-	-	-	-	-
NAS 897 - Straight Flute Long Carbide - Straight Shank - Steel	3459	94	95								-	-	-	-	-	-	-	-
NAS 897 - Straight Flute Long Carbide - Taper Shank - Cast Iron	3454	97									-	-	-	-	-	-	-	-
NAS 897 - Straight Flute Long Carbide - Taper Shank - Non-Ferrous	3453	97									-	-	-	-	-	-	-	-
NAS 897 - Straight Flute Long Carbide - Taper Shank - Steel	3455	97									-	-	-	-	-	-	-	-
NAS 897 - Straight Flutes - Straight Shank - Cast Iron	3408	92	93								-	4703	-	-	-	-	-	-
NAS 897 - Straight Flutes - Straight Shank - Non-Ferrous	3407	92	93								-	4703	-	-	-	-	-	-
NAS 897 - Straight Flutes - Straight Shank - Steel	3409	92	93								-	4703	-	-	-	-	-	-
NAS 897 - Straight Flutes - Taper Shank - Cast Iron	3473	96									-	4715	-	-	-	-	-	-
NAS 897 - Straight Flutes - Taper Shank - Non-Ferrous	3472	96									-	4715	-	-	-	-	-	-
NAS 897 - Straight Flutes - Taper Shank - Steel	3474	96									-	4715	-	-	-	-	-	-
Over & Under Size - Regular & Jobbers Drill Length	3478,79	61									-	-	-	8002	-	-	-	-
Over & Under Size - Straight Flute Long Carbide - Straight Shank - Steel	3488	79									-	-	-	-	-	-	-	-
Semi-Finished	ALL	69									-	-	-	Yes	-	Yes	Yes	-
Shell Reamer - Arbors	3481	116									-	-	-	-	-	-	-	-

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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.

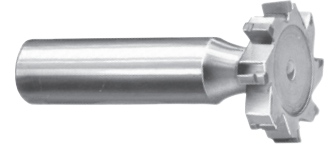
FEEDS & SPEEDS CHART FOR KEYSEATS - CARBIDE TIPPED

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	

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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	\$179.30	.0575 - .0787
305	⅝	⅜	2	.191	2 ⅜	37040305	179.30	.0788 - .1099
405	⅝	⅝	2	.223	2 ⅝	37040405	179.30	.1100 - .1400
505	⅝	⅝	2	.252	2 ⅝	37040505	179.30	.1401 - .1713
605	⅝	⅝	2	.279	2 ⅝	37040605	179.30	.1714 - .2025
-	⅝	⅝	2	.342	2 ⅝	37042007	179.30	.2026 - .2339
-	⅝	⅝	2	.342	2 ¼	37042008	179.30	.2340 - .2650
-	¾	⅛	2	.160	2 ⅛	37042402	188.25	.0575 - .0787
-	¾	⅜	2	.191	2 ⅜	37042403	188.25	.0788 - .1099
406	¾	⅝	2	.217	2 ⅝	37040406	188.25	.1100 - .1400
506	¾	⅝	2	.246	2 ⅝	37040506	188.25	.1401 - .1713
606	¾	⅝	2	.279	2 ⅝	37040606	188.25	.1714 - .2025
-	¾	⅝	2	.342	2 ⅝	37042407	188.25	.2026 - .2339
806	¾	⅝	2	.342	2 ¼	37040806	188.25	.2340 - .2650
-	⅞	⅛	2	.160	2 ⅛	37042802	201.75	.0575 - .0787
-	⅞	⅜	2	.191	2 ⅜	37042803	201.75	.0788 - .1099
-	⅞	⅝	2	.217	2 ⅝	37042804	201.75	.1100 - .1400
507	⅞	⅝	2	.246	2 ⅝	37040507	201.75	.1401 - .1713
607	⅞	⅝	2	.279	2 ⅝	37040607	201.75	.1714 - .2025
707	⅞	⅝	2	.312	2 ⅝	37040707	201.75	.2026 - .2339
807	⅞	⅝	2	.342	2 ¼	37040807	201.75	.2340 - .2650
-	1	⅜	2	.191	2 ⅜	37043203	212.95	.0788 - .1088
-	1	⅝	2	.217	2 ⅝	37043204	212.95	.1089 - .1400
-	1	⅝	2	.246	2 ⅝	37043205	212.95	.1401 - .1713
608	1	⅝	2	.279	2 ⅝	37040608	212.95	.1714 - .2025
708	1	⅝	2	.312	2 ⅝	37040708	212.95	.2026 - .2339
808	1	⅝	2	.342	2 ¼	37040808	212.95	.2340 - .2650
-	1	⅝	2	.401	2 ⅝	37043209	212.95	.2651 - .2968
1008	1	⅝	2	.401	2 ⅝	37041008	212.95	.2969 - .3281
-	1	⅝	2	.467	2 ⅝	37043211	212.95	.3282 - .3593
1208	1	⅝	2	.467	2 ⅝	37041208	212.95	.3594 - .3900
-	1 ⅛	⅝	2	.217	2 ⅝	37043603	212.95	.0788 - .1088
-	1 ⅛	⅝	2	.246	2 ⅝	37043604	212.95	.1089 - .1400
-	1 ⅛	⅝	2	.279	2 ⅝	37043605	212.95	.1401 - .1713
609	1 ⅛	⅝	2	.312	2 ⅝	37040609	212.95	.1714 - .2025
709	1 ⅛	⅝	2	.342	2 ⅝	37040709	212.95	.2026 - .2339
809	1 ⅛	⅝	2	.374	2 ¼	37040809	212.95	.2340 - .2650
-	1 ⅛	⅝	2	.435	2 ⅝	37043609	212.95	.2651 - .2968
1009	1 ⅛	⅝	2	.435	2 ⅝	37041009	212.95	.2969 - .3281
-	1 ⅛	⅝	2	.467	2 ⅝	37043611	212.95	.3282 - .3593
-	1 ⅛	⅝	2	.467	2 ⅝	37043612	212.95	.3594 - .3900
-	1 ¼	⅝	3	.217	2 ⅝	37044003	224.05	.0788 - .1088
-	1 ¼	⅝	3	.246	2 ⅝	37044004	224.05	.1089 - .1400
-	1 ¼	⅝	3	.279	2 ⅝	37044005	224.05	.1401 - .1713
610	1 ¼	⅝	3	.312	2 ⅝	37040610	224.05	.1714 - .2025
710	1 ¼	⅝	3	.342	2 ⅝	37040710	224.05	.2026 - .2339
810	1 ¼	⅝	3	.374	2 ¼	37040810	224.05	.2340 - .2650
-	1 ¼	⅝	3	.435	2 ⅝	37044009	224.05	.2651 - .2968
1010	1 ¼	⅝	3	.435	2 ⅝	37041010	224.05	.2969 - .3281
-	1 ¼	⅝	3	.467	2 ⅝	37044011	224.05	.3282 - .3593
1210	1 ¼	⅝	3	.467	2 ⅝	37041210	224.05	.3594 - .3900

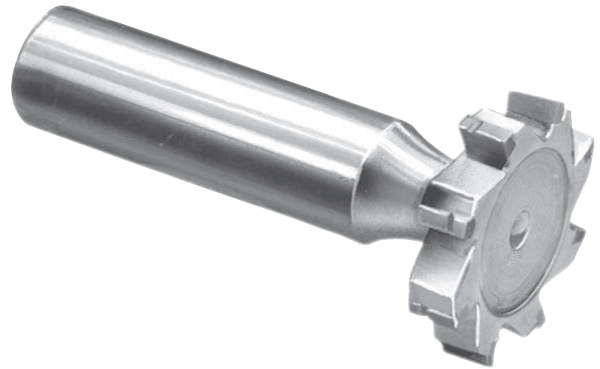
AMERICAN STANDARD NO.	TOOL DIAM.	WIDTH	NO. OF TEETH	NECK DIAM.	OAL	EDP NO.	PRICE EACH	DECIMAL SIZE RANGE
-	1 ⅝	⅝	3	.312	2 ⅝	37044403	\$246.50	.0788 - .1088
-	1 ⅝	⅝	3	.342	2 ⅝	37044404	246.50	.1089 - .1400
-	1 ⅝	⅝	3	.374	2 ⅝	37044405	246.50	.1401 - .1713
-	1 ⅝	⅝	3	.401	2 ⅝	37044406	246.50	.1714 - .2025
-	1 ⅝	⅝	3	.401	2 ⅝	37044407	246.50	.2026 - .2339
811	1 ⅝	⅝	3	.401	2 ⅝	37040811	246.50	.2340 - .2650
-	1 ⅝	⅝	3	.467	2 ⅝	37044409	246.50	.2651 - .2968
1011	1 ⅝	⅝	3	.467	2 ⅝	37041011	246.50	.2969 - .3281
-	1 ⅝	⅝	3	.467	2 ⅝	37044411	246.50	.3282 - .3593
1211	1 ⅝	⅝	3	.467	2 ⅝	37041211	246.50	.3594 - .3900
-	1 ½	⅝	3	.435	2 ⅝	37044803	280.25	.0788 - .1088
-	1 ½	⅝	3	.435	2 ⅝	37044804	280.25	.1089 - .1400
-	1 ½	⅝	3	.435	2 ⅝	37044805	280.25	.1401 - .1713
-	1 ½	⅝	3	.435	2 ⅝	37044806	280.25	.1714 - .2025
-	1 ½	⅝	3	.435	2 ⅝	37044807	280.25	.2026 - .2339
812	1 ½	⅝	3	.435	2 ¼	37040812	280.25	.2340 - .2650
-	1 ½	⅝	3	.467	2 ⅝	37044809	280.25	.2651 - .2968
1012	1 ½	⅝	3	.467	2 ⅝	37041012	280.25	.2969 - .3281
-	1 ½	⅝	3	.467	2 ⅝	37044811	280.25	.3282 - .3593
1212	1 ½	⅝	3	.467	2 ⅝	37041212	336.20	.3594 - .3900
-	1 ½	⅝	3	.467	2 ⅝	37044813	336.20	.3901 - .4219
-	1 ½	⅝	3	.467	2 ⅝	37044814	336.20	.4220 - .4531
-	1 ½	⅝	3	.467	2 ⅝	37044815	336.20	.4532 - .4843
-	1 ½	⅝	3	.467	2 ⅝	37044816	336.20	.4844 - .5150
-	1 ¾	⅝	4	.718	3 ⅝	37045604	309.30	.1089 - .1400
-	1 ¾	⅝	4	.718	3 ⅝	37045605	309.30	.1401 - .1713
-	1 ¾	⅝	4	.718	3 ⅝	37045606	309.30	.1714 - .2025
-	1 ¾	⅝	4	.718	3 ⅝	37045607	309.30	.2026 - .2339
-	1 ¾	⅝	4	.718	3 ⅝	37045608	309.30	.2340 - .2650
-	1 ¾	⅝	4	.718	3 ⅝	37045609	309.30	.2651 - .2968
-	1 ¾	⅝	4	.718	3 ⅝	37045610	309.30	.2969 - .3281
-	1 ¾	⅝	4	.718	3 ⅝	37045611	309.30	.3282 - .3593
-	1 ¾	⅝	4	.718	3 ⅝	37045612	363.15	.3594 - .3900
-	1 ¾	⅝	4	.718	3 ⅝	37045613	363.15	.3901 - .4219
-	1 ¾	⅝	4	.718	3 ⅝	37045614	363.15	.4220 - .4531
-	1 ¾	⅝	4	.718	3 ⅝	37045615	363.15	.4532 - .4843
-	1 ¾	⅝	4	.718	3 ⅝	37045616	363.15	.4844 - .5150
-	2	⅝	4	.718	3 ⅝	37046404	358.55	.1089 - .1400
-	2	⅝	4	.718	3 ⅝	37046405	358.55	.1401 - .1713
-	2	⅝	4	.718	3 ⅝	37046406	358.55	.1714 - .2025
-	2	⅝	4	.718	3 ⅝	37046407	358.55	.2026 - .2339
-	2	⅝	4	.718	3 ⅝	37046408	358.55	.2340 - .2650
-	2	⅝	4	.718	3 ⅝	37046409	358.55	.2651 - .2968
-	2	⅝	4	.718	3 ⅝	37046410	358.55	.2969 - .3281
-	2	⅝	4	.718	3 ⅝	37046411	358.55	.3282 - .3593
-	2	⅝	4	.718	3 ⅝	37046412	414.70	.3594 - .3900
-	2	⅝	4	.718	3 ⅝	37046413	414.70	.3901 - .4219
-	2	⅝	4	.718	3 ⅝	37046414	414.70	.4220 - .4531
-	2	⅝	4	.718	3 ⅝	37046415	414.70	.4532 - .4843
-	2	⅝	4	.718	3 ⅝	37046416	414.70	.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: $+.020"/+.015"$.

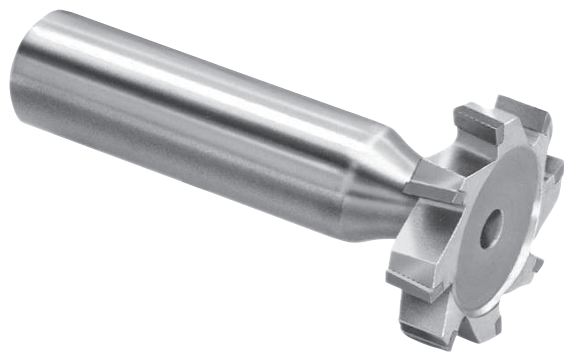
Face width tolerance: $+.0000"/-.0005"$.

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	\$146.25	.0575 - .0787	\$197.00	\$175.05	\$167.80	\$164.25	\$160.60	\$157.50
304	$\frac{1}{2}$	6	$\frac{3}{32}$	.160	2 $\frac{3}{32}$	37000304	146.25	.0788 - .1088	197.00	175.05	167.80	164.25	160.60	157.50
404	$\frac{1}{2}$	6	$\frac{1}{8}$	.191	2 $\frac{1}{8}$	37000404	146.25	.1089 - .1400	197.00	175.05	167.80	164.25	160.60	157.50
305	$\frac{5}{8}$	6	$\frac{3}{32}$	.191	2 $\frac{3}{32}$	37000305	151.55	.0788 - .1088	202.50	180.60	173.25	169.65	165.95	163.05
405	$\frac{5}{8}$	6	$\frac{1}{8}$	.223	2 $\frac{1}{8}$	37000405	151.55	.1089 - .1400	202.50	180.60	173.25	169.65	165.95	163.05
505	$\frac{5}{8}$	6	$\frac{5}{32}$	.252	2 $\frac{5}{32}$	37000505	151.55	.1401 - .1713	202.50	180.60	173.25	169.65	165.95	163.05
605	$\frac{5}{8}$	6	$\frac{3}{16}$	.279	2 $\frac{3}{16}$	37000605	151.55	.1714 - .2025	202.50	180.60	173.25	169.65	165.95	163.05
406	$\frac{3}{4}$	6	$\frac{1}{8}$	.217	2 $\frac{1}{8}$	37000406	158.15	.1100 - .1400	209.40	187.55	180.15	176.70	173.00	169.95
506	$\frac{3}{4}$	6	$\frac{5}{32}$	.246	2 $\frac{5}{32}$	37000506	158.15	.1401 - .1713	209.40	187.55	180.15	176.70	173.00	169.95
606	$\frac{3}{4}$	6	$\frac{3}{16}$	.279	2 $\frac{3}{16}$	37000606	158.15	.1714 - .2025	209.40	187.55	180.15	176.70	173.00	169.95
-	$\frac{3}{4}$	6	$\frac{7}{32}$	.342	2 $\frac{7}{32}$	37002407	173.25	.2026 - .2339	209.40	187.55	180.15	176.70	173.00	169.95
806	$\frac{3}{4}$	6	$\frac{1}{4}$	.342	2 $\frac{1}{4}$	37000806	158.15	.2340 - .2650	209.40	187.55	180.15	176.70	173.00	169.95
507	$\frac{7}{8}$	6	$\frac{5}{32}$	.246	2 $\frac{5}{32}$	37000507	165.65	.1401 - .1713	217.25	195.40	187.95	184.55	180.80	177.75
607	$\frac{7}{8}$	6	$\frac{3}{16}$	.279	2 $\frac{3}{16}$	37000607	165.65	.1714 - .2025	217.25	195.40	187.95	184.55	180.80	177.75
707	$\frac{7}{8}$	6	$\frac{7}{32}$	.312	2 $\frac{7}{32}$	37000707	165.65	.2026 - .2339	217.25	195.40	187.95	184.55	180.80	177.75
807	$\frac{7}{8}$	6	$\frac{1}{4}$	.342	2 $\frac{1}{4}$	37000807	165.65	.2340 - .2650	217.25	195.40	187.95	184.55	180.80	177.75
608	1	8	$\frac{3}{16}$	.279	2 $\frac{3}{16}$	37000608	186.85	.1714 - .2025	239.45	217.60	210.15	206.75	202.95	200.00
708	1	8	$\frac{7}{32}$	.312	2 $\frac{7}{32}$	37000708	186.85	.2026 - .2339	239.45	217.60	210.15	206.75	202.95	200.00
808	1	8	$\frac{1}{4}$	.342	2 $\frac{1}{4}$	37000808	186.85	.2340 - .2650	239.45	217.60	210.15	206.75	202.95	200.00
-	1	8	$\frac{9}{32}$	.401	2 $\frac{9}{32}$	37003209	204.65	.2651 - .2968	239.45	217.60	210.15	206.75	202.95	200.00
1008	1	8	$\frac{5}{16}$	.401	2 $\frac{5}{16}$	37001008	186.85	.2969 - .3281	239.45	217.60	210.15	206.75	202.95	200.00
-	1	8	$\frac{11}{32}$	.467	2 $\frac{11}{32}$	37003211	204.65	.3282 - .3593	239.45	217.60	210.15	206.75	202.95	200.00
1208	1	8	$\frac{3}{8}$	.467	2 $\frac{3}{8}$	37001208	186.85	.3594 - .3900	239.45	217.60	210.15	206.75	202.95	200.00
609	1 $\frac{1}{8}$	8	$\frac{3}{16}$	.312	2 $\frac{3}{16}$	37000609	196.20	.1714 - .2025	249.25	227.50	220.05	216.60	212.85	209.85
709	1 $\frac{1}{8}$	8	$\frac{7}{32}$	.342	2 $\frac{7}{32}$	37000709	196.20	.2026 - .2339	249.25	227.50	220.05	216.60	212.85	209.85
809	1 $\frac{1}{8}$	8	$\frac{1}{4}$	.374	2 $\frac{1}{4}$	37000809	196.20	.2340 - .2650	249.25	227.50	220.05	216.60	212.85	209.85
-	1 $\frac{1}{8}$	8	$\frac{9}{32}$	.435	2 $\frac{9}{32}$	37003609	215.00	.2651 - .2968	249.25	227.50	220.05	216.60	212.85	209.85
1009	1 $\frac{1}{8}$	8	$\frac{5}{16}$	.435	2 $\frac{5}{16}$	37001009	196.20	.2969 - .3281	249.25	227.50	220.05	216.60	212.85	209.85
610	1 $\frac{1}{4}$	8	$\frac{3}{16}$	.312	2 $\frac{3}{16}$	37000610	206.05	.1714 - .2025	259.55	237.75	230.40	226.90	223.15	220.05
710	1 $\frac{1}{4}$	8	$\frac{7}{32}$	.342	2 $\frac{7}{32}$	37000710	206.05	.2026 - .2339	259.55	237.75	230.40	226.90	223.15	220.05
810	1 $\frac{1}{4}$	8	$\frac{1}{4}$	.374	2 $\frac{1}{4}$	37000810	206.05	.2340 - .2650	259.55	237.75	230.40	226.90	223.15	220.05
-	1 $\frac{1}{4}$	8	$\frac{9}{32}$	.435	2 $\frac{9}{32}$	37004009	225.65	.2651 - .2968	259.55	237.75	230.40	226.90	223.15	220.05
1010	1 $\frac{1}{4}$	8	$\frac{5}{16}$	.435	2 $\frac{5}{16}$	37001010	206.05	.2969 - .3281	259.55	237.75	230.40	226.90	223.15	220.05
-	1 $\frac{1}{4}$	8	$\frac{11}{32}$	.467	2 $\frac{11}{32}$	37004011	225.65	.3282 - .3593	259.55	237.75	230.40	226.90	223.15	220.05
1210	1 $\frac{1}{4}$	8	$\frac{3}{8}$	.467	2 $\frac{3}{8}$	37001210	206.05	.3594 - .3900	259.55	237.75	230.40	226.90	223.15	220.05
811	1 $\frac{3}{8}$	8	$\frac{1}{4}$	.401	2 $\frac{1}{4}$	37000811	216.55	.2340 - .2650	270.50	248.65	241.30	237.75	234.00	231.10
-	1 $\frac{3}{8}$	8	$\frac{9}{32}$	.467	2 $\frac{9}{32}$	37004409	237.10	.2651 - .2968	270.50	248.65	241.30	237.75	234.00	231.10
1011	1 $\frac{3}{8}$	8	$\frac{5}{16}$	.467	2 $\frac{5}{16}$	37001011	216.55	.2969 - .3281	270.50	248.65	241.30	237.75	234.00	231.10
-	1 $\frac{3}{8}$	8	$\frac{11}{32}$	.467	2 $\frac{11}{32}$	37004411	237.10	.3282 - .3593	270.50	248.65	241.30	237.75	234.00	231.10
1211	1 $\frac{3}{8}$	8	$\frac{3}{8}$	.467	2 $\frac{3}{8}$	37001211	216.55	.3594 - .3900	270.50	248.65	241.30	237.75	234.00	231.10
812	1 $\frac{1}{2}$	8	$\frac{1}{4}$	.435	2 $\frac{1}{4}$	37000812	227.25	.2340 - .2650	281.75	260.00	252.65	249.10	245.35	242.45
-	1 $\frac{1}{2}$	8	$\frac{9}{32}$	.467	2 $\frac{9}{32}$	37004809	248.95	.2651 - .2968	281.75	260.00	252.65	249.10	245.35	242.45
1012	1 $\frac{1}{2}$	8	$\frac{5}{16}$	.467	2 $\frac{5}{16}$	37001012	227.25	.2969 - .3281	281.75	260.00	252.65	249.10	245.35	242.45
-	1 $\frac{1}{2}$	8	$\frac{11}{32}$	.467	2 $\frac{11}{32}$	37004811	248.95	.3282 - .3593	281.75	260.00	252.65	249.10	245.35	242.45
1212	1 $\frac{1}{2}$	8	$\frac{3}{8}$	.467	2 $\frac{3}{8}$	37001212	227.25	.3594 - .3900	281.75	260.00	252.65	249.10	245.35	242.45
-	1 $\frac{1}{2}$	8	$\frac{13}{32}$	.467	2 $\frac{13}{32}$	37004813	248.95	.3901 - .4219	281.75	260.00	252.65	249.10	245.35	242.45
-	1 $\frac{1}{2}$	8	$\frac{7}{16}$	.467	2 $\frac{7}{16}$	37004814	248.95	.4220 - .4531	281.75	260.00	252.65	249.10	245.35	242.45
-	1 $\frac{1}{2}$	8	$\frac{15}{32}$	.467	2 $\frac{15}{32}$	37004815	248.95	.4532 - .4843	281.75	260.00	252.65	249.10	245.35	242.45
-	1 $\frac{1}{2}$	8	$\frac{1}{2}$	.467	2 $\frac{1}{2}$	37004816	248.95	.4844 - .5150	281.75	260.00	252.65	249.10	245.35	242.45

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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	\$172.10	.0575 - .0787	\$223.95	\$202.15	\$194.75	\$191.30	\$187.55	\$184.55
304	1/2	6	3/32	.160	2 3/32	37010304	172.10	.0788 - .1088	223.95	202.15	194.75	191.30	187.55	184.55
404	1/2	6	1/8	.191	2 1/8	37010404	172.10	.1089 - .1400	223.95	202.15	194.75	191.30	187.55	184.55
305	5/8	6	3/32	.191	2 3/32	37010305	178.20	.0788 - .1088	230.50	208.65	201.30	197.70	194.00	191.00
405	5/8	6	1/8	.223	2 1/8	37010405	178.20	.1089 - .1400	230.50	208.65	201.30	197.70	194.00	191.00
505	5/8	6	5/32	.252	2 5/32	37010505	178.20	.1401 - .1713	230.50	208.65	201.30	197.70	194.00	191.00
605	5/8	6	3/16	.279	2 3/16	37010605	178.20	.1714 - .2025	230.50	208.65	201.30	197.70	194.00	191.00
406	3/4	6	1/8	.217	2 1/8	37010406	186.20	.1100 - .1400	238.85	217.00	209.55	206.05	202.45	199.45
506	3/4	6	5/32	.246	2 5/32	37010506	186.20	.1401 - .1713	238.85	217.00	209.55	206.05	202.45	199.45
606	3/4	6	3/16	.279	2 3/16	37010606	186.20	.1714 - .2025	238.85	217.00	209.55	206.05	202.45	199.45
-	3/4	6	7/32	.342	2 7/32	37012407	203.95	.2026 - .2339	238.85	217.00	209.55	206.05	202.45	199.45
806	3/4	6	1/4	.342	2 1/4	37010806	186.20	.2340 - .2650	238.85	217.00	209.55	206.05	202.45	199.45
507	7/8	6	5/32	.246	2 5/32	37010507	194.75	.1401 - .1713	247.75	225.80	218.55	215.00	211.25	208.35
607	7/8	6	3/16	.279	2 3/16	37010607	194.75	.1714 - .2025	247.75	225.80	218.55	215.00	211.25	208.35
707	7/8	6	7/32	.312	2 7/32	37010707	194.75	.2026 - .2339	247.75	225.80	218.55	215.00	211.25	208.35
807	7/8	6	1/4	.342	2 1/4	37010807	194.75	.2340 - .2650	247.75	225.80	218.55	215.00	211.25	208.35
608	1	8	3/16	.279	2 3/16	37010608	219.75	.1714 - .2025	273.95	252.05	244.75	241.15	237.45	234.55
708	1	8	7/32	.312	2 7/32	37010708	219.75	.2026 - .2339	273.95	252.05	244.75	241.15	237.45	234.55
808	1	8	1/4	.342	2 1/4	37010808	219.75	.2340 - .2650	273.95	252.05	244.75	241.15	237.45	234.55
-	1	8	9/32	.401	2 9/32	37013209	240.75	.2651 - .2968	273.95	252.05	244.75	241.15	237.45	234.55
1008	1	8	5/16	.401	2 5/16	37011008	219.75	.2969 - .3281	273.95	252.05	244.75	241.15	237.45	234.55
-	1	8	11/32	.467	2 11/32	37013211	240.75	.3282 - .3593	273.95	252.05	244.75	241.15	237.45	234.55
1208	1	8	3/8	.467	2 3/8	37011208	219.75	.3594 - .3900	273.95	252.05	244.75	241.15	237.45	234.55
609	1 1/8	8	3/16	.312	2 3/16	37010609	230.70	.1714 - .2025	285.35	263.45	256.15	252.65	248.95	245.90
709	1 1/8	8	7/32	.342	2 7/32	37010709	230.70	.2026 - .2339	285.35	263.45	256.15	252.65	248.95	245.90
809	1 1/8	8	1/4	.374	2 1/4	37010809	230.70	.2340 - .2650	285.35	263.45	256.15	252.65	248.95	245.90
-	1 1/8	8	9/32	.435	2 9/32	37013609	252.65	.2651 - .2968	285.35	263.45	256.15	252.65	248.95	245.90
1009	1 1/8	8	5/16	.435	2 5/16	37011009	230.70	.2969 - .3281	285.35	263.45	256.15	252.65	248.95	245.90
610	1 1/4	8	3/16	.312	2 3/16	37010610	242.35	.1714 - .2025	297.50	275.65	268.35	264.75	261.00	258.00
710	1 1/4	8	7/32	.342	2 7/32	37010710	242.35	.2026 - .2339	297.50	275.65	268.35	264.75	261.00	258.00
810	1 1/4	8	1/4	.374	2 1/4	37010810	242.35	.2340 - .2650	297.50	275.65	268.35	264.75	261.00	258.00
-	1 1/4	8	9/32	.435	2 9/32	37014009	265.35	.2651 - .2968	297.50	275.65	268.35	264.75	261.00	258.00
1010	1 1/4	8	5/16	.435	2 5/16	37011010	242.35	.2969 - .3281	297.50	275.65	268.35	264.75	261.00	258.00
-	1 1/4	8	11/32	.467	2 11/32	37014011	265.35	.3282 - .3593	297.50	275.65	268.35	264.75	261.00	258.00
1210	1 1/4	8	3/8	.467	2 3/8	37011210	242.35	.3594 - .3900	297.50	275.65	268.35	264.75	261.00	258.00
811	1 3/8	8	1/4	.401	2 1/4	37010811	254.55	.2340 - .2650	310.35	288.60	281.25	277.65	273.95	270.90
-	1 3/8	8	9/32	.467	2 9/32	37014409	278.80	.2651 - .2968	310.35	288.60	281.25	277.65	273.95	270.90
1011	1 3/8	8	5/16	.467	2 5/16	37011011	254.55	.2969 - .3281	310.35	288.60	281.25	277.65	273.95	270.90
-	1 3/8	8	11/32	.467	2 11/32	37014411	278.80	.3282 - .3593	310.35	288.60	281.25	277.65	273.95	270.90
1211	1 3/8	8	3/8	.467	2 3/8	37011211	254.55	.3594 - .3900	310.35	288.60	281.25	277.65	273.95	270.90
812	1 1/2	8	1/4	.435	2 1/4	37010812	267.35	.2340 - .2650	323.70	301.85	294.50	291.05	287.30	284.30
-	1 1/2	8	9/32	.467	2 9/32	37014809	292.80	.2651 - .2968	323.70	301.85	294.50	291.05	287.30	284.30
1012	1 1/2	8	5/16	.467	2 5/16	37011012	267.35	.2969 - .3281	323.70	301.85	294.50	291.05	287.30	284.30
-	1 1/2	8	11/32	.467	2 11/32	37014811	292.80	.3282 - .3593	323.70	301.85	294.50	291.05	287.30	284.30
1212	1 1/2	8	3/8	.467	2 3/8	37011212	267.35	.3594 - .3900	323.70	301.85	294.50	291.05	287.30	284.30
-	1 1/2	8	13/32	.467	2 13/32	37014813	292.80	.3901 - .4219	323.70	301.85	294.50	291.05	287.30	284.30
-	1 1/2	8	7/16	.467	2 7/16	37014814	292.80	.4220 - .4531	323.70	301.85	294.50	291.05	287.30	284.30
-	1 1/2	8	15/32	.467	2 15/32	37014815	292.80	.4532 - .4843	323.70	301.85	294.50	291.05	287.30	284.30
-	1 1/2	8	1/2	.467	2 1/2	37014816	292.80	.4844 - .5150	323.70	301.85	294.50	291.05	287.30	284.30

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

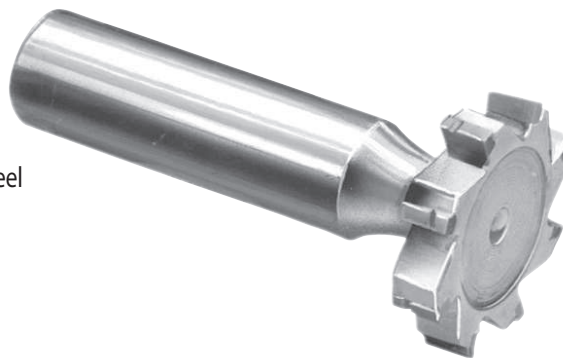
Made in U.S.A.

CARBIDE TIPPED 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 5/32" and greater width. Decimal size cutters DO NOT have chip breakers.

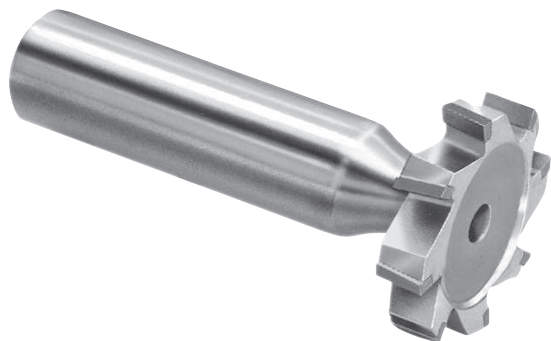


Tool diameter tolerance: +.020"/+.015".
Face width tolerance: +.0000"/-.0005".
Straight shank: 1/2" diameter, 2" long.

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	37020204	\$169.00	.0575 - .0787	\$222.95	\$200.00	\$192.25	\$188.55	\$184.65	\$181.50
304	1/2	6	3/32	.160	2 3/32	37020304	169.00	.0788 - .1088	222.95	200.00	192.25	188.55	184.65	181.50
404	1/2	6	1/8	.191	2 1/8	37020404	169.00	.1089 - .1400	222.95	200.00	192.25	188.55	184.65	181.50
305	5/8	6	3/32	.191	2 3/32	37020305	175.05	.0788 - .1088	229.20	206.20	198.60	194.85	191.00	187.80
405	5/8	6	1/8	.223	2 1/8	37020405	175.05	.1089 - .1400	229.20	206.20	198.60	194.85	191.00	187.80
505	5/8	6	5/32	.252	2 5/32	37020505	175.05	.1401 - .1713	229.20	206.20	198.60	194.85	191.00	187.80
605	5/8	6	3/16	.279	2 3/16	37020605	175.05	.1714 - .2025	229.20	206.20	198.60	194.85	191.00	187.80
406	3/4	6	1/8	.217	2 1/8	37020406	182.75	.1100 - .1400	237.40	214.40	206.65	202.90	199.00	195.85
506	3/4	6	5/32	.246	2 5/32	37020506	182.75	.1401 - .1713	237.40	214.40	206.65	202.90	199.00	195.85
606	3/4	6	3/16	.279	2 3/16	37020606	182.75	.1714 - .2025	237.40	214.40	206.65	202.90	199.00	195.85
-	3/4	6	1/4	.342	2 1/4	37022407	200.05	.2026 - .2339	237.40	214.40	206.65	202.90	199.00	195.85
806	3/4	6	1/4	.342	2 1/4	37020806	182.75	.2340 - .2650	237.40	214.40	206.65	202.90	199.00	195.85
507	7/8	6	5/32	.246	2 5/32	37020507	191.40	.1401 - .1713	246.35	223.35	215.60	211.85	208.05	204.80
607	7/8	6	3/16	.279	2 3/16	37020607	191.40	.1714 - .2025	246.35	223.35	215.60	211.85	208.05	204.80
707	7/8	6	7/32	.312	2 7/32	37020707	191.40	.2026 - .2339	246.35	223.35	215.60	211.85	208.05	204.80
807	7/8	6	1/4	.342	2 1/4	37020807	191.40	.2340 - .2650	246.35	223.35	215.60	211.85	208.05	204.80
608	1	8	3/16	.279	2 3/16	37020608	215.85	.1714 - .2025	271.90	249.05	241.20	237.60	233.70	230.55
708	1	8	7/32	.312	2 7/32	37020708	215.85	.2026 - .2339	271.90	249.05	241.20	237.60	233.70	230.55
808	1	8	1/4	.342	2 1/4	37020808	215.85	.2340 - .2650	271.90	249.05	241.20	237.60	233.70	230.55
-	1	8	9/32	.401	2 9/32	37023209	236.45	.2651 - .2968	271.90	249.05	241.20	237.60	233.70	230.55
1008	1	8	5/16	.401	2 5/16	37021008	215.85	.2969 - .3281	271.90	249.05	241.20	237.60	233.70	230.55
-	1	8	11/32	.467	2 11/32	37023211	236.45	.3282 - .3593	271.90	249.05	241.20	237.60	233.70	230.55
1208	1	8	3/8	.467	2 3/8	37021208	215.85	.3594 - .3900	271.90	249.05	241.20	237.60	233.70	230.55
609	1 1/8	8	3/16	.312	2 3/16	37020609	226.75	.1714 - .2025	283.40	260.45	252.65	249.05	245.15	241.90
709	1 1/8	8	7/32	.342	2 7/32	37020709	226.75	.2026 - .2339	283.40	260.45	252.65	249.05	245.15	241.90
809	1 1/8	8	1/4	.374	2 1/4	37020809	226.75	.2340 - .2650	283.40	260.45	252.65	249.05	245.15	241.90
-	1 1/8	8	9/32	.435	2 9/32	37023609	248.25	.2651 - .2968	283.40	260.45	252.65	249.05	245.15	241.90
1009	1 1/8	8	5/16	.435	2 5/16	37021009	226.75	.2969 - .3281	283.40	260.45	252.65	249.05	245.15	241.90
610	1 1/4	8	3/16	.312	2 3/16	37020610	238.00	.1714 - .2025	295.25	272.25	264.60	260.85	256.95	253.80
710	1 1/4	8	7/32	.342	2 7/32	37020710	238.00	.2026 - .2339	295.25	272.25	264.60	260.85	256.95	253.80
810	1 1/4	8	1/4	.374	2 1/4	37020810	238.00	.2340 - .2650	295.25	272.25	264.60	260.85	256.95	253.80
-	1 1/4	8	9/32	.435	2 9/32	37024009	260.70	.2651 - .2968	295.25	272.25	264.60	260.85	256.95	253.80
1010	1 1/4	8	5/16	.435	2 5/16	37021010	238.00	.2969 - .3281	295.25	272.25	264.60	260.85	256.95	253.80
-	1 1/4	8	11/32	.467	2 11/32	37024011	260.70	.3282 - .3593	295.25	272.25	264.60	260.85	256.95	253.80
1210	1 1/4	8	3/8	.467	2 3/8	37021210	238.00	.3594 - .3900	295.25	272.25	264.60	260.85	256.95	253.80
811	1 3/8	8	1/4	.401	2 1/4	37020811	250.05	.2340 - .2650	308.00	284.90	277.15	273.40	269.50	266.45
-	1 3/8	8	9/32	.467	2 9/32	37024409	273.80	.2651 - .2968	308.00	284.90	277.15	273.40	269.50	266.45
1011	1 3/8	8	5/16	.467	2 5/16	37021011	250.05	.2969 - .3281	308.00	284.90	277.15	273.40	269.50	266.45
-	1 3/8	8	11/32	.467	2 11/32	37024411	273.80	.3282 - .3593	308.00	284.90	277.15	273.40	269.50	266.45
1211	1 3/8	8	3/8	.467	2 3/8	37021211	250.05	.3594 - .3900	308.00	284.90	277.15	273.40	269.50	266.45
812	1 1/2	8	1/4	.435	2 1/4	37020812	262.55	.2340 - .2650	320.95	298.10	290.35	286.65	282.70	279.60
-	1 1/2	8	9/32	.467	2 9/32	37024809	287.50	.2651 - .2968	320.95	298.10	290.35	286.65	282.70	279.60
1012	1 1/2	8	5/16	.467	2 5/16	37021012	262.55	.2969 - .3281	320.95	298.10	290.35	286.65	282.70	279.60
-	1 1/2	8	11/32	.467	2 11/32	37024811	287.50	.3282 - .3593	320.95	298.10	290.35	286.65	282.70	279.60
1212	1 1/2	8	3/8	.467	2 3/8	37021212	262.55	.3594 - .3900	320.95	298.10	290.35	286.65	282.70	279.60
-	1 1/2	8	13/32	.467	2 13/32	37024813	287.50	.3901 - .4219	320.95	298.10	290.35	286.65	282.70	279.60
-	1 1/2	8	7/16	.467	2 7/16	37024814	287.50	.4220 - .4531	320.95	298.10	290.35	286.65	282.70	279.60
-	1 1/2	8	15/32	.467	2 15/32	37024815	287.50	.4532 - .4843	320.95	298.10	290.35	286.65	282.70	279.60
-	1 1/2	8	1/2	.467	2 1/2	37024816	287.50	.4844 - .5150	320.95	298.10	290.35	286.65	282.70	279.60

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

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	\$198.85	.0575 - .0787	\$254.15	\$231.20	\$223.50	\$219.75	\$215.85	\$212.80
304	1/2	6	3/32	.160	2 3/32	37030304	198.85	.0788 - .1088	254.15	231.20	223.50	219.75	215.85	212.80
404	1/2	6	1/8	.191	2 1/8	37030404	198.85	.1089 - .1400	254.15	231.20	223.50	219.75	215.85	212.80
305	5/8	6	3/32	.191	2 3/32	37030305	205.80	.0788 - .1088	261.55	238.60	230.95	227.20	223.35	220.15
405	5/8	6	1/8	.223	2 1/8	37030405	205.80	.1089 - .1400	261.55	238.60	230.95	227.20	223.35	220.15
505	5/8	6	5/32	.252	2 5/32	37030505	205.80	.1401 - .1713	261.55	238.60	230.95	227.20	223.35	220.15
605	5/8	6	3/16	.279	2 3/16	37030605	205.80	.1714 - .2025	261.55	238.60	230.95	227.20	223.35	220.15
406	3/4	6	1/8	.217	2 1/8	37030406	215.10	.1100 - .1400	271.25	248.35	240.70	236.95	232.95	229.80
506	3/4	6	5/32	.246	2 5/32	37030506	215.10	.1401 - .1713	271.25	248.35	240.70	236.95	232.95	229.80
606	3/4	6	3/16	.279	2 3/16	37030606	215.10	.1714 - .2025	271.25	248.35	240.70	236.95	232.95	229.80
-	3/4	6	7/32	.342	2 7/32	37032407	235.55	.2026 - .2339	271.25	248.35	240.70	236.95	232.95	229.80
806	3/4	6	1/4	.342	2 1/4	37030806	215.10	.2340 - .2650	271.25	248.35	240.70	236.95	232.95	229.80
507	7/8	6	5/32	.246	2 5/32	37030507	225.05	.1401 - .1713	281.55	258.60	250.90	247.05	243.20	240.20
607	7/8	6	3/16	.279	2 3/16	37030607	225.05	.1714 - .2025	281.55	258.60	250.90	247.05	243.20	240.20
707	7/8	6	7/32	.312	2 7/32	37030707	225.05	.2026 - .2339	281.55	258.60	250.90	247.05	243.20	240.20
807	7/8	6	1/4	.342	2 1/4	37030807	225.05	.2340 - .2650	281.55	258.60	250.90	247.05	243.20	240.20
608	1	8	3/16	.279	2 3/16	37030608	253.80	.1714 - .2025	311.75	288.90	281.15	277.40	273.50	270.40
708	1	8	7/32	.312	2 7/32	37030708	253.80	.2026 - .2339	311.75	288.90	281.15	277.40	273.50	270.40
808	1	8	1/4	.342	2 1/4	37030808	253.80	.2340 - .2650	311.75	288.90	281.15	277.40	273.50	270.40
-	1	8	9/32	.401	2 9/32	37033209	278.10	.2651 - .2968	311.75	288.90	281.15	277.40	273.50	270.40
1008	1	8	5/16	.401	2 5/16	37031008	253.80	.2969 - .3281	311.75	288.90	281.15	277.40	273.50	270.40
-	1	8	11/32	.467	2 11/32	37033211	278.10	.3282 - .3593	311.75	288.90	281.15	277.40	273.50	270.40
1208	1	8	3/8	.467	2 3/8	37031208	253.80	.3594 - .3900	311.75	288.90	281.15	277.40	273.50	270.40
609	1 1/8	8	3/16	.312	2 3/16	37030609	266.45	.1714 - .2025	325.00	302.00	294.35	290.65	286.80	283.55
709	1 1/8	8	7/32	.342	2 7/32	37030709	266.45	.2026 - .2339	325.00	302.00	294.35	290.65	286.80	283.55
809	1 1/8	8	1/4	.374	2 1/4	37030809	266.45	.2340 - .2650	325.00	302.00	294.35	290.65	286.80	283.55
-	1 1/8	8	9/32	.435	2 9/32	37033609	291.75	.2651 - .2968	325.00	302.00	294.35	290.65	286.80	283.55
1009	1 1/8	8	5/16	.435	2 5/16	37031009	266.45	.2969 - .3281	325.00	302.00	294.35	290.65	286.80	283.55
610	1 1/4	8	3/16	.312	2 3/16	37030610	279.85	.1714 - .2025	339.00	316.05	308.45	304.70	300.85	297.65
710	1 1/4	8	7/32	.342	2 7/32	37030710	279.85	.2026 - .2339	339.00	316.05	308.45	304.70	300.85	297.65
810	1 1/4	8	1/4	.374	2 1/4	37030810	279.85	.2340 - .2650	339.00	316.05	308.45	304.70	300.85	297.65
-	1 1/4	8	9/32	.435	2 9/32	37034009	306.60	.2651 - .2968	339.00	316.05	308.45	304.70	300.85	297.65
1010	1 1/4	8	5/16	.435	2 5/16	37031010	279.85	.2969 - .3281	339.00	316.05	308.45	304.70	300.85	297.65
-	1 1/4	8	11/32	.467	2 11/32	37034011	306.60	.3282 - .3593	339.00	316.05	308.45	304.70	300.85	297.65
1210	1 1/4	8	3/8	.467	2 3/8	37031210	279.85	.3594 - .3900	339.00	316.05	308.45	304.70	300.85	297.65
811	1 3/8	8	1/4	.401	2 1/4	37030811	294.10	.2340 - .2650	353.90	331.05	323.15	319.55	315.65	312.50
-	1 3/8	8	9/32	.467	2 9/32	37034409	322.00	.2651 - .2968	353.90	331.05	323.15	319.55	315.65	312.50
1011	1 3/8	8	5/16	.467	2 5/16	37031011	294.10	.2969 - .3281	353.90	331.05	323.15	319.55	315.65	312.50
-	1 3/8	8	11/32	.467	2 11/32	37034411	322.00	.3282 - .3593	353.90	331.05	323.15	319.55	315.65	312.50
1211	1 3/8	8	3/8	.467	2 3/8	37031211	294.10	.3594 - .3900	353.90	331.05	323.15	319.55	315.65	312.50
812	1 1/2	8	1/4	.435	2 1/4	37030812	308.75	.2340 - .2650	369.30	346.40	338.65	334.95	331.05	328.00
-	1 1/2	8	9/32	.467	2 9/32	37034809	338.20	.2651 - .2968	369.30	346.40	338.65	334.95	331.05	328.00
1012	1 1/2	8	5/16	.467	2 5/16	37031012	308.75	.2969 - .3281	369.30	346.40	338.65	334.95	331.05	328.00
-	1 1/2	8	11/32	.467	2 11/32	37034811	338.20	.3282 - .3593	369.30	346.40	338.65	334.95	331.05	328.00
1212	1 1/2	8	3/8	.467	2 3/8	37031212	308.75	.3594 - .3900	369.30	346.40	338.65	334.95	331.05	328.00
-	1 1/2	8	13/32	.467	2 13/32	37034813	338.20	.3901 - .4219	369.30	346.40	338.65	334.95	331.05	328.00
-	1 1/2	8	7/16	.467	2 7/16	37034814	338.20	.4220 - .4531	369.30	346.40	338.65	334.95	331.05	328.00
-	1 1/2	8	15/32	.467	2 15/32	37034815	338.20	.4532 - .4843	369.30	346.40	338.65	334.95	331.05	328.00
-	1 1/2	8	1/2	.467	2 1/2	37034816	338.20	.4844 - .5150	369.30	346.40	338.65	334.95	331.05	328.00

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

Made in U.S.A.

CARBIDE TIPPED CHAMFER MILLING CUTTERS

SINGLE ANGLE CUTTERS

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

TYPE 3731 - 45° - FOR STEEL

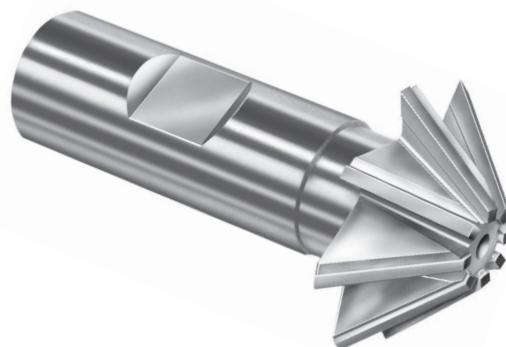
TYPE 3732 - 60° - FOR NON-FERROUS & CAST IRON

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	\$246.10	373116	\$270.65	7/32	373216	\$246.10	373316	\$270.65
3/4	3/8	6	2 1/8	3/16	373024	265.30	373124	291.75	5/16	373224	265.30	373324	291.75
1	1/2	6	2 1/2	5/16	373032	311.30	373132	342.30	7/16	373232	311.30	373332	342.30
1 1/2	3/4	8	2 3/4	1/2	373048	394.45	373148	434.15	5/8	373248	394.45	373348	434.15

DOUBLE ANGLE CUTTERS

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

TYPE 3747 - 60° - FOR STEEL

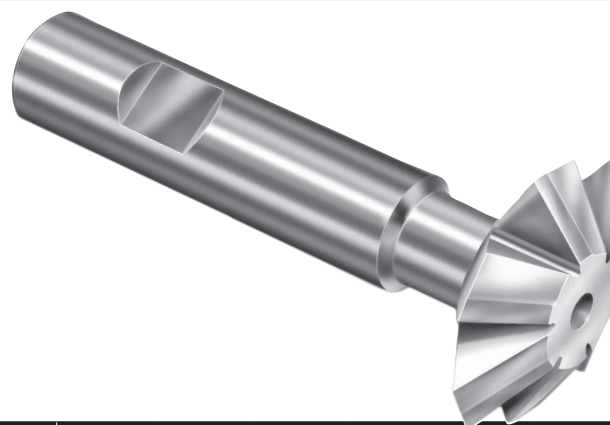
TYPE 3748 - 90° - FOR NON-FERROUS & CAST IRON

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: $.010"-.020"$.



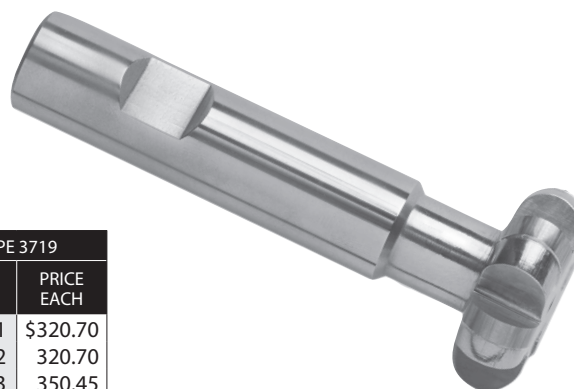
TOOL DIAMETER	SHANK DIAMETER	NO. OF TEETH	60° DOUBLE ANGLE						90° DOUBLE ANGLE					
			OVERALL LENGTH	CUTTER WIDTH	TYPE 3746 EDP NO.	PRICE EACH	TYPE 3747 EDP NO.	PRICE EACH	OVERALL LENGTH	CUTTER WIDTH	TYPE 3748 EDP NO.	PRICE EACH	TYPE 3749 EDP NO.	PRICE EACH
¾	⅜	6	2 ⅜	⅜	374624	\$233.65	374724	\$257.00	2 ⅜	¼	374824	\$233.65	374924	\$257.00
1	½	6	2 27/32	⅝	374632	275.95	374732	303.60	2 29/32	⅜	374832	275.95	374932	303.60
1 ⅜	⅝	6	3 7/32	7/16	374644	319.65	374744	351.65	3 ⅝	½	374844	319.65	374944	351.65
1 ½	⅝	6	3 ⅜	½	374648	335.75	374748	369.20	3 7/16	⅝	374848	335.75	374948	369.20
1 7/8	¾	6	3 25/32	⅝	374660	509.70	374760	560.75	3 25/32	⅝	374860	509.70	374960	560.75
2 ¼	7/8	6	4 5/32	¾	374672	690.00	374772	759.00	4 5/32	¾	374872	690.00	374972	759.00

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.

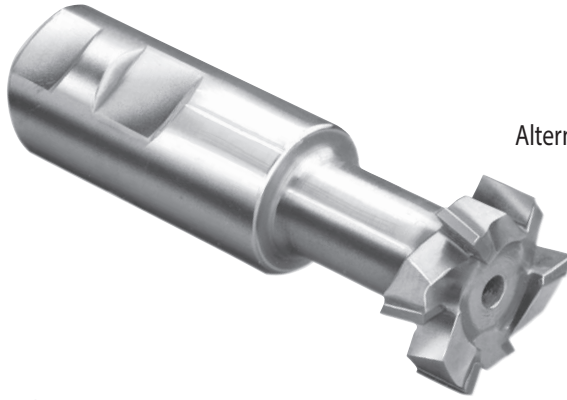


CUTTER RADIUS	TOOL DIAM.	SHANK DIAM.	NO. OF TEETH	CUTTER WIDTH	OVERALL LENGTH	TYPE 3718		TYPE 3719	
						EDP NO.	PRICE EACH	EDP NO.	PRICE EACH
1/32	3/4	1/2	6	1/16	3	371801	\$291.50	371901	\$320.70
1/16	3/4	1/2	6	1/8	3	371802	291.50	371902	320.70
3/32	7/8	1/2	6	3/16	3	371803	318.70	371903	350.45
1/8	1 1/4	3/4	6	1/4	3 1/2	371804	346.75	371904	381.55
5/32	1 5/16	3/4	6	5/16	3 1/2	371805	399.10	371905	438.95
3/16	1 3/8	3/4	6	3/8	3 1/2	371806	422.35	371906	464.60
1/4	1 1/2	3/4	6	1/2	4	371808	437.15	371908	481.00

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	\$201.20	372108	\$217.30
5/16	21/32	1/2	17/64	21/64	39/64	6	2 11/16	372010	198.75	372110	214.60
3/8	25/32	3/4	21/64	13/32	55/64	6	3 1/4	372012	250.10	372112	270.20
1/2	31/32	3/4	25/64	17/32	63/64	6	3 7/16	372016	271.95	372116	293.65
5/8	1 1/4	1	31/64	21/32	1 9/64	6	3 15/16	372020	360.95	372120	389.90
3/4	1 15/32	1	5/8	25/32	1 1/2	6	4 7/16	372024	403.35	372124	435.55
1	1 27/32	1 1/4	53/64	1 1/32	1 43/64	8	4 13/16	372032	575.80	372132	621.95
1 1/4	2 7/32	1 1/4	1 3/32	1 7/32	1 31/32	8	5 3/8	372040	726.65	372140	784.80
1 1/2	2 21/32	1 1/4	1 11/32	1 17/32	2 1/8	8	5 29/32	372048	841.45	372148	908.85

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.

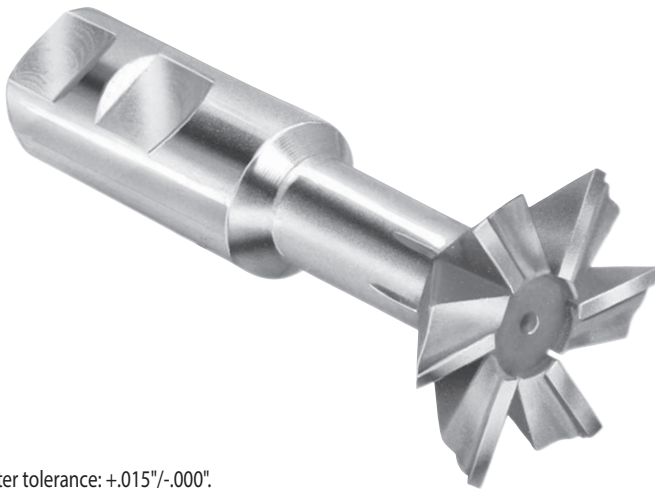
45° single angle with right hand cut.
Straight shank with drive flats.

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	\$201.45	373516	\$204.50	7/32	373616	\$201.45	373716	\$204.50
3/4	3/8	1/4	3	2 1/4	1/4	373424	217.40	373524	220.35	1/4	373624	217.40	373724	220.35
1	1/2	3/8	4	2 1/2	5/16	373432	232.50	373532	235.85	3/8	373632	232.50	373732	235.85
1 1/4	5/8	1/2	4	2 3/4	3/8	373440	264.30	373540	268.10	1/2	373640	264.30	373740	268.10
1 1/2	3/4	1/2	4	3 1/4	1/2	373448	308.75	373548	313.25	5/8	373648	308.75	373748	313.25
2	1	3/4	6	4 1/4	5/8	373464	496.15	373564	503.20	3/4	373664	496.15	373764	503.20
2 1/2	1 1/4	1	6	4 3/8	3/4	373480	671.00	373580	680.40	7/8	373680	671.00	373780	680.40
3	1 1/4	1	6	4 1/2	1	373496	791.20	373596	802.60	1 1/8	373696	791.20	373796	802.60

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

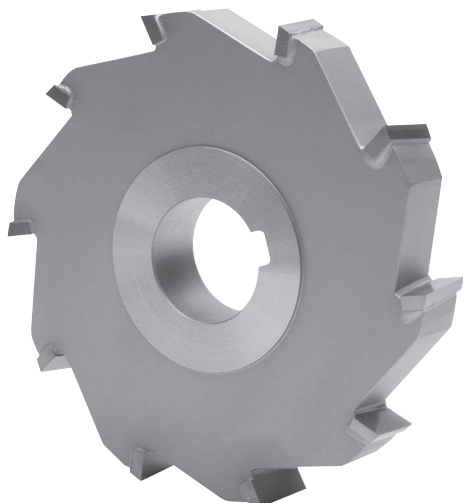
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CARBIDE TIPPED SIDE MILLING CUTTERS STAGGERED TOOTH

TYPE 3547 - GENERAL PURPOSE

Carbide tips brazed to alloy steel bodies.

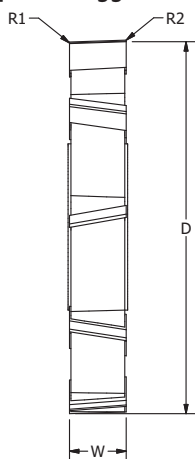
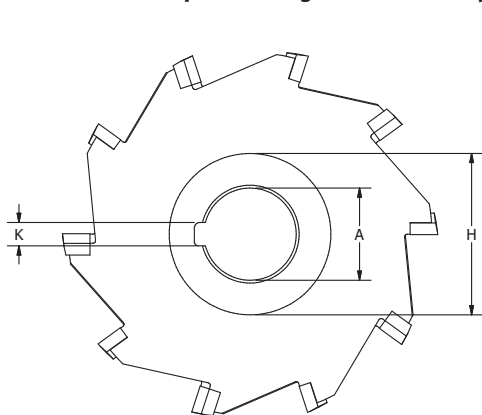
Positive radial rake and alternating right and left hand 5° axial rake make this an excellent choice for general purpose milling including aluminum, cast iron, composites, stainless steel, steel, and titanium up to 363 Brinell (39Rc). Staggered tooth design produces a free cutting tool and promotes chip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



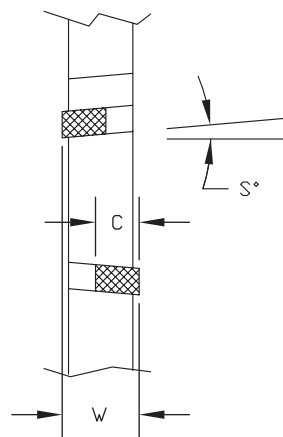
ALL TYPES:
Tool diameter tolerance: $+\frac{1}{16}"/-0.000"$
Face width tolerance: $+.001"/-0.000"$
Arbor hole tolerance: $+.001"/-0.000"$
Sharpened on all 3 cutting edges.

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	-	627.80
3	3/8	.3750	8	354716	-	630.30
3	1/2	.5000	8	354718	-	649.85
3	5/8	.6250	8	354720	-	695.75
4	3/16	.1875	10	354722	-	660.35
4	1/4	.2500	10	354724	-	668.55
4	5/16	.3125	10	354726	-	676.65
4	3/8	.3750	10	354728	-	684.80
4	1/2	.5000	10	354730	-	694.35
4	5/8	.6250	10	354732	-	707.35
4	3/4	.7500	10	354734	-	715.30
6	1/4	.2500	14	-	354750	858.40
6	5/16	.3125	14	-	354752	864.90
6	3/8	.3750	14	-	354754	866.15
6	1/2	.5000	14	-	354756	877.45
6	5/8	.6250	14	-	354758	882.45
6	3/4	.7500	14	-	354760	911.20
6	1	1.0000	14	-	354762	975.60

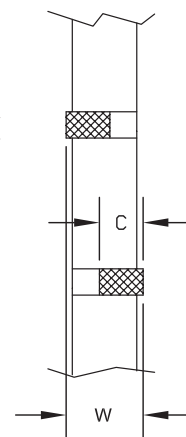
For a material specific design and/or other types of staggered tooth cutters use the form and diagrams below for a quote.



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: $+\frac{1}{16}"/-0.000"$.

Face width tolerance: $+0.001"/-0.000"$.

Arbor hole tolerance: $+0.001"/-0.000"$.

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		
	FRACTIONAL	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	\$225.35	6	355232	\$259.40	8	355432	\$257.10	8	355832	\$240.90
3	$\frac{1}{8}$	.1250	1	6	355034	232.10	6	355234	274.65	8	355434	287.75	8	355834	250.10
3	$\frac{3}{16}$	.1875	1	6	355036	241.30	6	355236	290.50	8	355436	290.50	8	355836	259.75
3	$\frac{1}{4}$	.2500	1	6	355037	164.10	6	355237	238.15	8	355437	238.15	8	355837	285.85
3	$\frac{5}{16}$	.3125	1	6	355031	172.40	6	355231	238.15	8	355431	238.15	8	355831	285.85
3	$\frac{3}{8}$	.3750	1	6	355038	175.75	6	355238	242.00	8	355438	242.00	8	355838	290.50
4	$\frac{3}{32}$	.0938	1	6	355042	276.65	8	355242	332.50	8	355442	332.50	10	355842	346.60
4	$\frac{1}{8}$	.1250	1	6	355044	284.85	8	355244	336.95	8	355444	336.95	10	355844	351.00
4	$\frac{3}{16}$	.1875	1	6	355046	289.10	8	355246	363.10	8	355446	363.10	10	355846	355.80
4	$\frac{1}{4}$	.2500	1	6	355047	210.95	8	355247	308.35	8	355447	308.35	10	355847	370.20
4	$\frac{5}{16}$	.3125	1	6	355041	216.85	8	355241	320.30	8	355441	320.30	10	355841	384.15
4	$\frac{3}{8}$	.3750	1	6	355048	222.60	8	355248	331.95	8	355448	331.95	10	355848	398.25
4	$\frac{3}{8}$	.3750	1 1/4	6	355049	222.60	8	355249	331.95	8	355449	331.95	10	355849	398.25
5	$\frac{3}{32}$	.0938	1	8	355052	299.30	10	355252	446.40	10	355452	446.40	12	355852	471.15
5	$\frac{1}{8}$	.1250	1	8	355054	299.30	10	355254	480.15	10	355454	480.15	12	355854	481.00
5	$\frac{3}{16}$	.1875	1	-	-	-	10	355256	540.55	10	355456	540.55	12	355856	500.15
6	$\frac{1}{8}$	.1250	1 1/4	8	355063	407.60	12	355263	586.00	12	355463	586.00	14	355863	562.70
6	$\frac{3}{16}$	.1875	1 1/4	8	355065	537.15	12	355265	605.30	12	355465	605.30	14	355865	577.15
6	$\frac{1}{4}$	.2500	1 1/4	8	355067	556.40	12	355267	617.95	12	355467	617.95	14	355867	586.60
8	$\frac{1}{8}$	.1250	1 1/4	10	355083	521.05	-	-	-	-	-	-	-	-	-
8	$\frac{3}{16}$	.1875	1 1/4	-	-	-	16	355285	833.05	16	355485	833.05	-	-	-
8	$\frac{1}{4}$	.2500	1 1/4	-	-	-	16	355287	864.85	16	355487	864.85	-	-	-

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			
	FRACTION	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	-	\$355.05	12	355398	-	\$355.05	16	355698	-	\$424.50	12	355998	-	\$399.35
3	3/64	.0781	12	355100	-	419.90	12	355300	-	419.90	16	355600	-	513.35	12	355900	-	447.35
3	1/32	.0938	12	355102	-	355.05	12	355302	-	355.05	16	355602	-	424.50	12	355902	-	399.35
3	3/64	.1094	12	355104	-	353.75	12	355304	-	353.75	16	355604	-	391.75	12	355904	-	381.20
3	1/8	.1250	12	355106	355107	285.45	12	355306	355307	285.45	16	355606	-	354.95	12	355906	355907	364.10
3	3/32	.1562	12	355108	-	340.15	12	355308	-	340.15	16	355608	-	372.85	12	355908	-	372.85
3	1/16	.1875	12	355109	-	304.20	12	355309	-	304.20	16	355609	-	390.85	12	355909	-	381.80
3	3/32	.2188	12	355110	-	352.00	12	355310	-	352.00	16	355610	-	408.70	12	355910	-	393.90
3	1/4	.2500	12	355111	-	370.05	12	355311	-	370.05	16	355611	-	426.80	12	355911	-	405.70
3	3/16	.3125	12	355112	-	405.70	12	355312	-	405.70	16	355612	-	467.85	12	355912	-	444.50
3	3/8	.3750	12	355113	-	441.60	12	355313	-	441.60	16	355613	-	509.20	12	355913	-	486.20
3	7/16	.4375	-	-	-	-	-	-	-	-	16	355614	-	565.85	12	355914	-	528.35
3	1/2	.5000	-	-	-	-	-	-	-	-	16	355615	-	628.75	12	355915	-	570.20
4	1/16	.0625	14	355116	355117	413.45	14	355316	-	413.45	20	355616	-	513.35	14	355916	355917	454.15
4	3/64	.0781	14	355118	355119	488.35	14	355318	355319	488.35	20	355618	355619	561.70	14	355918	355919	520.40
4	3/32	.0938	14	355120	355121	413.45	14	355320	355321	413.45	20	355620	355621	513.35	14	355920	355921	454.15
4	3/64	.1094	14	355122	355123	422.20	14	355322	355323	422.20	20	355622	355623	485.40	14	355922	355923	538.45
4	1/8	.1250	14	355124	355125	372.85	14	355324	355325	372.85	20	355624	355625	453.45	14	355924	355925	453.45
4	3/32	.1562	14	355126	355127	423.50	14	355326	355327	423.50	20	355626	355627	487.20	14	355926	355927	465.40
4	1/16	.1875	14	355128	355129	396.90	14	355328	355329	396.90	20	355628	355629	489.35	14	355928	355929	480.20
4	3/32	.2188	14	355130	355131	450.45	14	355330	355331	450.45	20	355630	355631	518.10	14	355930	355931	495.40
4	1/4	.2500	14	355132	355133	459.20	14	355332	355333	459.20	20	355632	355633	524.80	14	355932	355933	507.20
4	3/16	.3125	14	355134	355135	495.40	14	355334	355335	495.40	20	355634	355635	569.45	14	355934	355935	543.00
4	3/8	.3750	14	355136	355137	531.05	14	355336	355337	531.05	20	355636	355637	610.65	14	355936	355937	584.60
4	7/16	.4375	-	-	-	-	-	-	-	-	20	355638	-	678.50	14	355938	-	626.75
4	1/2	.5000	-	-	-	-	-	-	-	-	20	355640	-	754.00	14	355940	-	668.75
5	3/64	.0781	16	355142	355143	604.90	16	355342	355343	604.90	24	355642	355643	695.50	16	355942	355943	641.20
5	3/32	.0938	16	355144	355145	499.05	16	355344	355345	499.05	24	355644	355645	700.45	16	355944	355945	549.90
5	3/64	.1094	16	355146	355147	568.20	16	355346	355347	568.20	24	355646	355647	653.50	16	355946	355947	604.90
5	1/8	.1250	16	355148	355149	461.05	16	355348	355349	461.05	24	355648	355649	566.65	16	355948	355949	534.00
5	3/32	.1562	16	355150	355151	504.15	16	355350	355351	504.15	24	355650	355651	579.70	16	355950	355951	551.65
5	1/16	.1875	16	355152	355153	516.30	16	355352	355353	516.30	24	355652	355653	620.50	16	355952	355953	581.70
5	3/32	.2188	16	355154	355155	554.80	16	355354	355355	554.80	24	355654	355655	638.10	16	355954	355955	611.60
5	1/4	.2500	16	355156	355157	578.80	16	355356	355357	578.80	24	355656	355657	665.55	16	355956	355957	641.25
5	3/16	.3125	16	355158	355159	629.30	16	355358	355359	629.30	24	355658	355659	723.90	16	355958	355959	692.00
5	3/8	.3750	16	355160	355161	680.10	16	355360	355361	680.10	24	355660	355661	782.05	16	355960	355961	745.80
5	7/16	.4375	-	-	-	-	-	-	-	-	24	355662	-	869.05	16	355962	-	787.80
5	1/2	.5000	-	-	-	-	-	-	-	-	24	355664	-	965.55	16	355964	-	829.80
6	3/64	.0781	18	355166	355167	680.05	18	355366	355367	680.05	28	355666	355667	782.00	18	355966	355967	721.05
6	3/32	.0938	18	355168	355169	605.60	18	355368	355369	605.60	28	355668	355669	716.35	18	355968	355969	664.00
6	3/64	.1094	18	355170	355171	682.35	18	355370	355371	682.35	28	355670	355671	784.65	18	355970	355971	723.50
6	1/8	.1250	18	355172	355173	577.25	18	355372	355373	577.25	28	355672	355673	751.65	18	355972	355973	683.05
6	3/32	.1562	18	355174	355175	653.15	18	355374	355375	653.15	28	355674	355675	751.30	18	355974	355975	712.85
6	1/16	.1875	18	355176	355177	632.35	18	355376	355377	632.35	28	355676	355677	805.95	18	355976	355977	742.65
6	3/32	.2188	18	355178	355179	712.85	18	355378	355379	712.85	28	355678	355679	819.85	18	355978	355979	772.55
6	1/4	.2500	18	355180	355181	742.75	18	355380	355381	742.75	28	355680	355681	876.35	18	355980	355981	813.70
6	3/16	.3125	18	355182	355183	772.70	18	355382	355383	772.70	28	355682	355683	888.60	18	355982	355983	850.15
6	3/8	.3750	18	355184	355185	802.35	18	355384	355385	802.35	28	355684	355685	922.70	18	355984	355985	882.85
6	7/16	.4375	-	-	-	-	-	-	-	-	28	355690	-	1025.10	18	355990	-	924.85
6	1/2	.5000	-	-	-	-	-	-	-	-	28	355692	-	1139.10	18	355992	-	966.95
8	1/8	.1250	24	-	355186	958.35	24	-	355386	958.35	24	-	355686	1013.10	24	-	355986	1013.10
8	3/32	.1562	24	-	355187	969.80	24	-	355387	969.80	24	-	355687	1024.60	24	-	355987	1024.60
8	3/16	.1875	24	-	355188	981.20	24	-	355388	981.20	24	-	355688	1035.90	24	-	355988	1035.90
8	1/4	.2500	24	-	355189	1040.35	24	-	355389	1040.35	24	-	355689	1095.25	24	-	355989	1095.25

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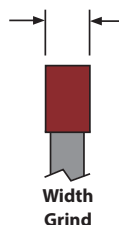
3" CARBIDE TIPPED MILLING CUTTERS GENERAL PURPOSE

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	\$490.95	\$455.45	\$449.30	\$446.10	\$444.20	\$399.35
3	.0704-.0859	.0711	355900D	539.00	503.50	497.40	494.15	492.10	447.35
3	.0860-.1015	.0867	355902D	490.95	455.45	449.30	446.10	444.20	399.35
3	.1016-.1171	.1024	355904D	472.80	437.45	431.25	428.00	426.00	381.20
3	.1172-.1406	.1180	355906D	455.70	420.20	414.00	410.75	408.85	364.10
3	.1407-.1718	.1562	355908D	464.50	429.15	422.95	419.75	417.80	372.85
3	.1719-.2031	.1875	355909D	473.45	437.90	431.70	428.55	426.65	381.80
3	.2032-.2343	.2188	355910D	485.40	450.15	443.95	440.65	438.75	393.90
3	.2344-.2812	.2500	355911D	497.55	462.10	455.75	452.55	450.70	405.70
3	.2813-.3437	.3125	355912D	536.15	500.75	494.55	491.40	489.50	444.50
3	.3438-.4062	.3750	355913D	577.80	542.40	536.15	532.85	530.95	486.20
3	.4063-.4687	.4375	355914D	619.85	584.45	578.25	575.05	573.10	528.35
3	.4688-.5312	.5000	355915D	662.05	626.45	620.25	617.10	615.25	570.20



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)

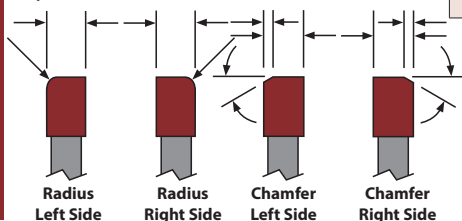
Corner Radius or Chamfer on ONE Side

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



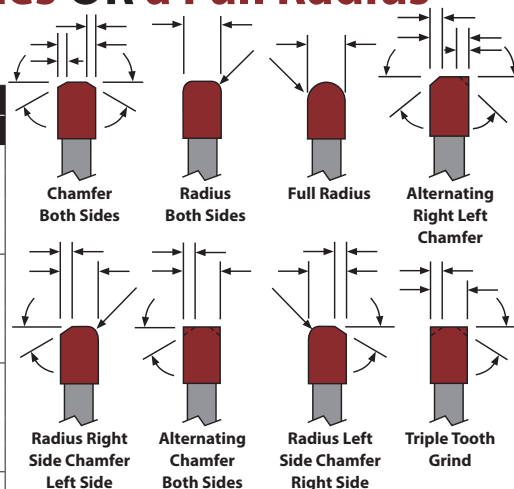
TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED WITH RADIUS OR CHAMFER					
				1 PC	2 PC	3 PC	4 PC	5 PC	6 PC
3	.0600-.0703	.0555	355998R1	\$514.95	\$462.50	\$455.45	\$452.00	\$449.85	\$448.80
3	.0704-.0859	.0711	355900R1	563.00	510.50	503.50	499.90	497.75	496.70
3	.0860-.1015	.0867	355902R1	514.95	462.50	455.45	452.00	449.85	448.80
3	.1016-.1171	.1024	355904R1	496.85	444.35	437.45	433.85	431.60	430.45
3	.1172-.1406	.1180	355906R1	479.70	427.15	420.20	416.65	414.50	413.30
3	.1407-.1718	.1562	355908R1	488.50	436.05	429.15	425.50	423.35	422.20
3	.1719-.2031	.1875	355909R1	497.45	444.90	437.90	434.45	432.40	431.15
3	.2032-.2343	.2188	355910R1	509.40	457.15	450.15	446.40	444.35	443.10
3	.2344-.2812	.2500	355911R1	521.45	468.95	462.10	458.45	456.30	455.15
3	.2813-.3437	.3125	355912R1	560.15	507.80	500.75	497.15	495.10	493.80
3	.3438-.4062	.3750	355913R1	601.95	549.35	542.40	538.75	536.70	535.55
3	.4063-.4687	.4375	355914R1	643.85	591.45	584.45	580.85	578.80	577.55
3	.4688-.5312	.5000	355915R1	685.95	633.45	626.45	623.00	620.70	619.65

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	355998R2	\$527.75	\$469.55	\$461.90	\$457.75	\$455.40	\$454.15
3	.0704-.0859	.0711	355900R2	575.80	517.55	509.90	505.80	503.30	502.00
3	.0860-.1015	.0867	355902R2	527.75	469.55	461.90	457.75	455.40	454.15
3	.1016-.1171	.1024	355904R2	509.80	451.40	443.75	439.75	437.30	436.00
3	.1172-.1406	.1180	355906R2	492.55	434.30	426.50	422.50	420.05	418.80
3	.1407-.1718	.1562	355908R2	501.45	443.05	435.35	431.40	429.00	427.65
3	.1719-.2031	.1875	355909R2	510.20	452.00	444.25	440.20	437.80	436.60
3	.2032-.2343	.2188	355910R2	522.45	464.05	456.35	452.40	449.95	448.80
3	.2344-.2812	.2500	355911R2	534.25	475.90	468.35	464.25	461.90	460.60
3	.2813-.3437	.3125	355912R2	573.05	514.70	506.95	503.05	500.70	499.35
3	.3438-.4062	.3750	355913R2	614.75	556.40	548.65	544.65	542.20	541.00
3	.4063-.4687	.4375	355914R2	656.65	598.50	590.80	586.70	584.40	583.00
3	.4688-.5312	.5000	355915R2	698.75	640.65	632.80	628.85	626.40	625.10



4" CARBIDE TIPPED MILLING CUTTERS GENERAL PURPOSE

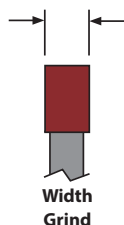
TYPE 3559 - GENERAL PURPOSE



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	\$562.05	\$521.45	\$514.00	\$510.20	\$507.90	\$454.25
4	.0704 - .0859	.0701	355918D	628.40	587.60	580.15	576.35	574.10	520.40
4	.0860 - .1015	.0858	355920D	562.05	521.45	514.00	510.20	507.90	454.25
4	.1016 - .1171	.1014	355922D	646.55	605.75	598.35	594.65	592.20	538.45
4	.1172 - .1406	.1170	355924D	561.55	520.70	513.15	509.35	507.10	453.45
4	.1407 - .1718	.1562	355926D	573.35	532.65	525.20	521.45	519.05	465.40
4	.1719 - .2031	.1875	355928D	588.15	547.45	540.00	536.25	533.85	480.20
4	.2032 - .2343	.2188	355930D	603.30	562.60	555.10	551.35	548.90	495.30
4	.2344 - .2812	.2500	355932D	615.25	574.40	567.00	563.15	560.75	507.20
4	.2813 - .3437	.3125	355934D	650.85	610.15	602.60	598.85	596.50	543.00
4	.3438 - .4062	.3750	355936D	692.70	652.00	644.55	640.70	638.25	584.60
4	.4063 - .4687	.4375	355938D	734.70	694.05	686.50	682.70	680.25	626.75
4	.4688 - .5312	.5000	355940D	776.85	735.90	728.55	724.75	722.45	668.75

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	\$588.05	\$529.05	\$520.85	\$516.45	\$514.00	\$512.65
4	.0704 - .0859	.0701	355918R1	654.20	595.20	587.00	582.60	580.15	578.80
4	.0860 - .1015	.0858	355920R1	588.05	529.05	520.85	516.45	514.00	512.65
4	.1016 - .1171	.1014	355922R1	672.55	613.45	605.15	600.95	598.35	596.95
4	.1172 - .1406	.1170	355924R1	587.45	528.35	520.05	515.80	513.15	511.85
4	.1407 - .1718	.1562	355926R1	599.25	540.15	532.05	527.75	525.20	523.75
4	.1719 - .2031	.1875	355928R1	614.20	555.10	546.80	542.55	540.00	538.55
4	.2032 - .2343	.2188	355930R1	629.30	570.10	561.90	557.70	555.10	553.65
4	.2344 - .2812	.2500	355932R1	641.10	582.00	573.75	569.45	567.00	565.60
4	.2813 - .3437	.3125	355934R1	676.80	617.65	609.50	605.25	602.60	601.15
4	.3438 - .4062	.3750	355936R1	718.50	659.50	651.20	646.95	644.55	643.00
4	.4063 - .4687	.4375	355938R1	760.65	701.65	693.30	689.10	686.50	685.10
4	.4688 - .5312	.5000	355940R1	802.75	743.75	735.45	731.15	728.55	727.25

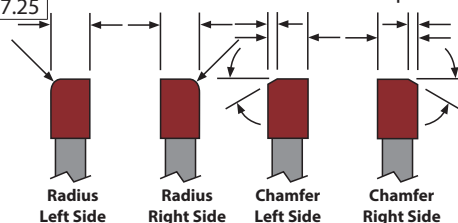
Radius Notes

- 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

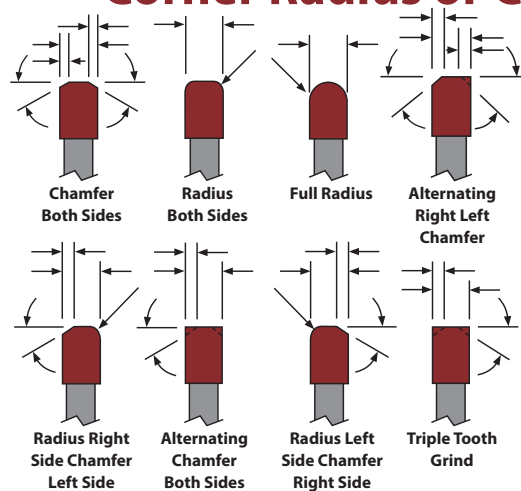
- Chamfer Angles can range from 0° to 45°
- Chamfer is measured off of the OD
- Maximum chamfer is the LESSER of ½ the width of the cutter OR .2656" length of angle when measured across the OD
- Chamfer Angle Tolerance: +/- ½°
- Chamfers greater than 45° must be quoted

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	\$601.95	\$536.80	\$527.60	\$522.90	\$520.05	\$518.55
4	.0704 - .0859	.0701	355918R2	667.85	602.85	593.75	589.05	586.15	584.60
4	.0860 - .1015	.0858	355920R2	601.95	536.80	527.60	522.90	520.05	518.55
4	.1016 - .1171	.1014	355922R2	686.15	621.10	611.90	607.30	604.40	602.85
4	.1172 - .1406	.1170	355924R2	601.00	535.95	526.80	522.15	519.30	517.70
4	.1407 - .1718	.1562	355926R2	612.95	547.95	538.70	534.10	531.10	529.65
4	.1719 - .2031	.1875	355928R2	627.90	562.75	553.65	548.90	546.00	544.60
4	.2032 - .2343	.2188	355930R2	642.95	577.80	568.75	564.05	561.25	559.70
4	.2344 - .2812	.2500	355932R2	654.75	589.65	580.55	575.80	573.05	571.45
4	.2813 - .3437	.3125	355934R2	690.45	625.40	616.25	611.60	608.70	607.20
4	.3438 - .4062	.3750	355936R2	732.30	667.15	658.05	653.35	650.60	649.00
4	.4063 - .4687	.4375	355938R2	774.30	709.25	700.20	695.35	692.55	691.15
4	.4688 - .5312	.5000	355940R2	816.40	751.40	742.15	737.45	734.60	733.00

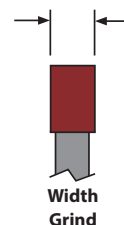
5" CARBIDE TIPPED MILLING CUTTERS GENERAL PURPOSE

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	\$751.65	\$709.85	\$702.25	\$698.45	\$696.15	\$641.20
5	.0860-.1015	.0848	355944D	660.40	618.70	611.20	607.30	605.00	549.90
5	.1016-.1171	.1004	355946D	715.20	673.60	665.95	662.10	659.75	604.90
5	.1172-.1406	.1160	355948D	644.55	602.60	595.20	591.20	589.00	534.00
5	.1407-.1718	.1562	355950D	662.20	620.50	612.95	608.90	606.60	551.65
5	.1719-.2031	.1875	355952D	692.15	650.55	642.95	639.10	636.65	581.70
5	.2032-.2343	.2188	355954D	722.10	680.25	672.75	668.85	666.45	611.60
5	.2344-.2812	.2500	355956D	751.70	709.95	702.50	698.60	696.30	641.25
5	.2813-.3437	.3125	355958D	802.35	760.65	753.15	749.20	746.90	692.00
5	.3438-.4062	.3750	355960D	856.10	814.40	806.95	803.00	800.60	745.80
5	.4063-.4687	.4375	355962D	898.20	856.55	849.15	845.15	842.70	787.80
5	.4688-.5312	.5000	355964D	940.35	898.55	891.05	887.15	884.75	829.80



Cutter Notes (All cutters on page)

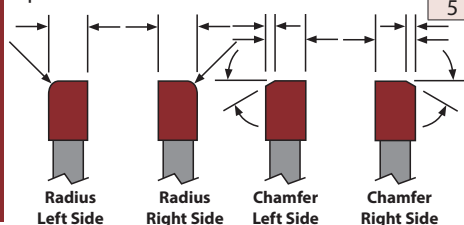
- 16 Teeth
- C-2(m) Carbide
- 5° Positive Radial Rake
- Width Tolerance: +.001"/-.000"
- OD tolerance: +.0313"/-.000"
- 1" Arbor hole +.001"/-.000"
- ANSI standard keyway dimensions
- Add 5% to grind the hub width thinner
- Add 5% to match OD's on cutter sets within .001"
- Not designed to be used on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

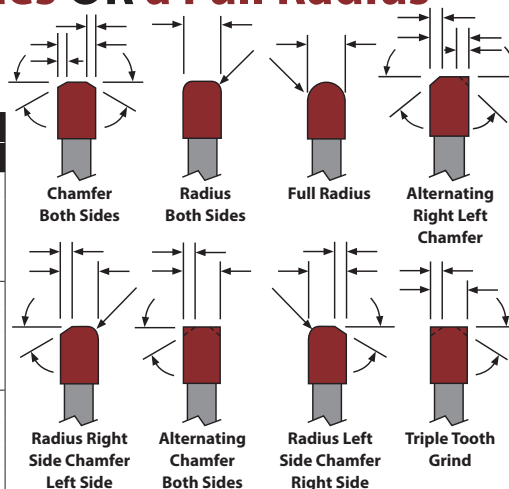
TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
5	.0704-.0859	.0691	355942R1	\$777.85	\$717.50	\$709.15	\$704.70	\$702.05	\$700.75
5	.0860-.1015	.0848	355944R1	686.80	626.40	617.95	613.65	611.00	609.50
5	.1016-.1171	.1004	355946R1	741.50	681.25	672.75	668.45	665.70	664.40
5	.1172-.1406	.1160	355948R1	670.70	610.35	602.10	597.65	595.05	593.65
5	.1407-.1718	.1562	355950R1	688.45	628.05	619.70	615.40	612.65	611.35
5	.1719-.2031	.1875	355952R1	718.35	658.10	649.70	645.30	642.70	641.25
5	.2032-.2343	.2188	355954R1	748.25	687.95	679.60	675.30	672.55	671.15
5	.2344-.2812	.2500	355956R1	778.00	717.85	709.25	704.95	702.25	700.80
5	.2813-.3437	.3125	355958R1	828.65	768.25	759.90	755.55	753.00	751.55
5	.3438-.4062	.3750	355960R1	882.40	822.05	813.65	809.25	806.80	805.35
5	.4063-.4687	.4375	355962R1	924.50	864.25	855.70	851.45	848.75	847.35
5	.4688-.5312	.5000	355964R1	966.50	906.30	897.90	893.60	890.75	889.45

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	\$805.20	\$732.85	\$722.65	\$717.45	\$714.30	\$712.70
5	.0860-.1015	.0848	355944R2	714.05	641.65	631.50	626.30	623.15	621.55
5	.1016-.1171	.1004	355946R2	768.80	696.45	686.30	681.10	678.05	676.30
5	.1172-.1406	.1160	355948R2	698.05	625.70	615.60	610.30	607.20	605.55
5	.1407-.1718	.1562	355950R2	715.75	643.40	633.30	628.05	624.95	623.15
5	.1719-.2031	.1875	355952R2	745.80	673.35	663.20	658.05	654.90	653.20
5	.2032-.2343	.2188	355954R2	775.45	703.35	693.15	687.95	684.80	683.10
5	.2344-.2812	.2500	355956R2	805.35	732.95	722.75	717.65	714.60	712.85
5	.2813-.3437	.3125	355958R2	855.85	783.60	773.55	768.20	765.05	763.45
5	.3438-.4062	.3750	355960R2	909.75	837.30	827.35	822.00	818.85	817.30
5	.4063-.4687	.4375	355962R2	951.90	879.40	869.30	864.15	861.00	859.30
5	.4688-.5312	.5000	355964R2	993.85	921.55	911.45	906.30	903.00	901.35



6" CARBIDE TIPPED MILLING CUTTERS GENERAL PURPOSE

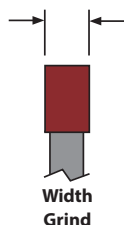


TYPE 3559 - GENERAL PURPOSE

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	836.40	792.80	784.95	780.90	778.30	721.05
6	.0860 - .1015	.0838	355968D	779.30	735.75	727.85	723.90	721.30	664.00
6	.1016 - .1171	.0994	355970D	838.85	795.40	787.35	783.30	780.90	723.50
6	.1172 - .1406	.1150	355972D	798.25	754.75	746.90	742.75	740.30	683.05
6	.1407 - .1718	.1562	355974D	828.05	784.65	776.75	772.65	770.20	712.85
6	.1719 - .2031	.1875	355976D	858.00	814.40	806.75	802.35	799.90	742.65
6	.2032 - .2343	.2188	355978D	887.85	844.30	836.40	832.25	829.80	772.55
6	.2344 - .2812	.2500	355980D	929.05	885.60	877.55	873.50	871.15	813.70
6	.2813 - .3437	.3125	355982D	965.50	921.85	914.05	909.90	907.55	850.15
6	.3438 - .4062	.3750	355984D	998.20	954.50	946.80	942.65	940.20	882.80
6	.4063 - .4687	.4375	355990D	1040.15	996.60	988.80	984.65	982.20	924.85
6	.4688 - .5312	.5000	355992D	1082.20	1038.75	1030.80	1026.75	1024.25	966.95

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	\$863.10	\$800.45	\$791.65	\$787.20	\$784.45	\$783.00
6	.0860 - .1015	.0838	355968R1	806.05	743.35	734.60	730.15	727.40	725.95
6	.1016 - .1171	.0994	355970R1	865.70	802.90	794.10	789.55	786.80	785.45
6	.1172 - .1406	.1150	355972R1	825.05	762.35	753.55	749.00	746.35	744.90
6	.1407 - .1718	.1562	355974R1	854.95	792.35	783.45	779.05	776.25	774.80
6	.1719 - .2031	.1875	355976R1	884.75	822.05	813.35	808.80	806.05	804.65
6	.2032 - .2343	.2188	355978R1	914.60	851.95	843.30	838.55	836.00	834.50
6	.2344 - .2812	.2500	355980R1	955.90	893.30	884.45	879.95	877.20	875.65
6	.2813 - .3437	.3125	355982R1	992.25	929.60	920.95	916.35	913.60	912.05
6	.3438 - .4062	.3750	355984R1	1024.90	962.25	953.45	948.95	946.25	944.80
6	.4063 - .4687	.4375	355990R1	1066.95	1004.40	995.60	991.10	988.25	986.85
6	.4688 - .5312	.5000	355992R1	1109.05	1046.35	1037.55	1033.10	1030.40	1028.80

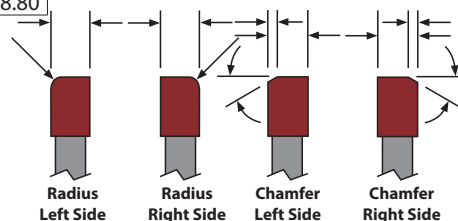
Radius Notes

- 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

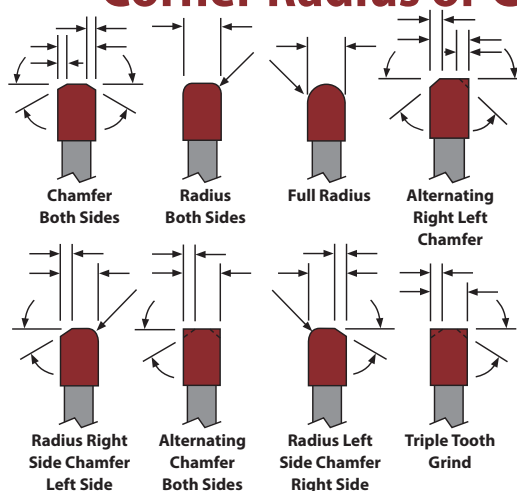
- Chamfer Angles can range from 0° to 45°
- Chamfer is measured off of the OD
- Maximum chamfer is the LESSER of ½ the width of the cutter OR .2656" length of angle when measured across the OD
- Chamfer Angle Tolerance: $\pm 1/2^\circ$
- Chamfers greater than 45° must be quoted

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	\$890.50	\$815.80	\$805.35	\$799.90	\$796.60	\$794.80
6	.0860 - .1015	.0838	355968R2	833.40	758.75	748.25	742.80	739.60	737.75
6	.1016 - .1171	.0994	355970R2	893.05	818.25	807.75	802.35	799.10	797.40
6	.1172 - .1406	.1150	355972R2	852.50	777.75	767.20	761.80	758.60	756.75
6	.1407 - .1718	.1562	355974R2	882.30	807.50	797.10	791.65	788.40	786.65
6	.1719 - .2031	.1875	355976R2	912.05	837.30	826.90	821.60	818.40	816.55
6	.2032 - .2343	.2188	355978R2	941.95	867.30	856.80	851.45	848.15	846.35
6	.2344 - .2812	.2500	355980R2	983.20	908.45	898.05	892.60	889.30	887.70
6	.2813 - .3437	.3125	355982R2	1019.50	944.95	934.45	929.05	925.80	924.00
6	.3438 - .4062	.3750	355984R2	1052.15	977.50	967.10	961.75	958.45	956.75
6	.4063 - .4687	.4375	355990R2	1094.35	1019.50	1009.15	1003.80	1000.50	998.75
6	.4688 - .5312	.5000	355992R2	1136.40	1061.70	1051.25	1045.95	1042.65	1040.85

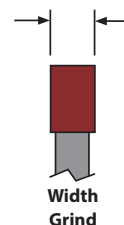
3" CARBIDE TIPPED MILLING CUTTERS FOR STEEL

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	\$517.25	\$482.30	\$475.75	\$472.55	\$470.55	\$424.50
3	.0704-.0859	.0711	355600D	605.90	570.95	564.60	561.45	559.45	513.35
3	.0860-.1015	.0867	355602D	517.25	482.30	475.75	472.55	470.55	424.50
3	.1016-.1171	.1024	355604D	484.25	449.25	442.90	439.75	437.65	391.75
3	.1172-.1406	.1180	355606D	447.50	412.60	406.25	403.10	400.90	354.95
3	.1407-.1718	.1562	355608D	465.50	430.55	424.20	420.95	418.80	372.85
3	.1719-.2031	.1875	355609D	483.45	448.50	442.10	438.90	436.85	390.85
3	.2032-.2343	.2188	355610D	501.30	466.40	460.15	456.75	454.85	408.70
3	.2344-.2812	.2500	355611D	519.40	484.45	478.05	474.90	472.80	426.80
3	.2813-.3437	.3125	355612D	560.55	525.50	519.25	516.00	513.95	467.95
3	.3438-.4062	.3750	355613D	601.95	567.00	560.55	557.30	555.25	509.20
3	.4063-.4687	.4375	355614D	658.35	623.40	617.10	613.90	611.80	565.85
3	.4688-.5312	.5000	355615D	721.30	686.30	680.05	676.80	674.75	628.75



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)

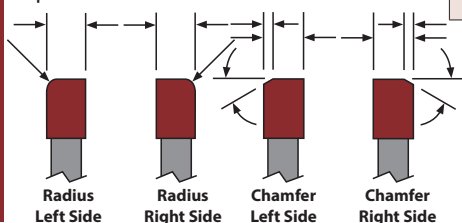
Corner Radius or Chamfer on ONE Side

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



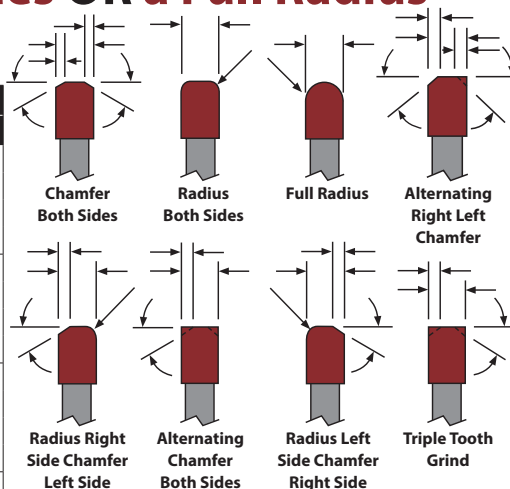
TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED WITH RADIUS OR CHAMFER					
				1 PC	2 PC	3 PC	4 PC	5 PC	6 PC
3	.0600-.0703	.0555	355698R1	\$540.55	\$489.40	\$482.30	\$478.55	\$476.30	\$475.15
3	.0704-.0859	.0711	355600R1	629.35	578.15	571.05	567.35	565.15	564.00
3	.0860-.1015	.0867	355602R1	540.55	489.40	482.30	478.55	476.30	475.15
3	.1016-.1171	.1024	355604R1	507.75	456.45	449.30	445.70	443.50	442.20
3	.1172-.1406	.1180	355606R1	470.95	419.80	412.70	409.00	406.70	405.50
3	.1407-.1718	.1562	355608R1	488.80	437.75	430.60	427.00	424.55	423.50
3	.1719-.2031	.1875	355609R1	506.90	455.70	448.65	444.90	442.65	441.50
3	.2032-.2343	.2188	355610R1	524.80	473.60	466.50	462.75	460.60	459.35
3	.2344-.2812	.2500	355611R1	542.85	491.65	484.50	480.90	478.55	477.30
3	.2813-.3437	.3125	355612R1	583.90	532.70	525.60	521.90	519.70	518.55
3	.3438-.4062	.3750	355613R1	625.15	574.20	567.05	563.30	561.00	559.85
3	.4063-.4687	.4375	355614R1	681.90	630.60	623.55	619.85	617.65	616.55
3	.4688-.5312	.5000	355615R1	744.80	693.60	686.50	682.85	680.50	679.50

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	\$553.40	\$496.70	\$488.65	\$484.50	\$482.15	\$480.85
3	.0704-.0859	.0711	355600R2	642.35	585.45	577.40	573.35	570.90	569.45
3	.0860-.1015	.0867	355602R2	553.40	496.70	488.65	484.50	482.15	480.85
3	.1016-.1171	.1024	355604R2	520.55	463.75	455.70	451.60	449.15	447.85
3	.1172-.1406	.1180	355606R2	483.90	427.00	419.05	415.00	412.45	411.05
3	.1407-.1718	.1562	355608R2	501.75	444.90	437.00	432.90	430.40	429.10
3	.1719-.2031	.1875	355609R2	519.70	462.90	455.00	450.95	448.35	447.10
3	.2032-.2343	.2188	355610R2	537.80	480.90	472.85	468.80	466.35	464.90
3	.2344-.2812	.2500	355611R2	555.70	498.85	490.85	486.80	484.25	482.95
3	.2813-.3437	.3125	355612R2	596.85	540.00	532.05	527.90	525.45	524.05
3	.3438-.4062	.3750	355613R2	638.10	581.25	573.35	569.30	566.85	565.45
3	.4063-.4687	.4375	355614R2	694.75	637.90	630.00	625.90	623.30	622.00
3	.4688-.5312	.5000	355615R2	757.70	700.75	692.90	688.85	686.25	684.95





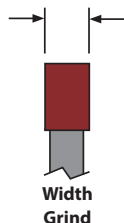
4" CARBIDE TIPPED MILLING CUTTERS FOR STEEL

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: $\pm .001$ " / $\pm .000$ "
- OD tolerance: $\pm .0313$ " / $\pm .000$ "
- 1" Arbor hole $\pm .001$ " / $\pm .000$ "
- 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	\$622.65	\$582.25	\$574.65	\$570.75	\$568.35	\$513.35
4	.0704 - .0859	.0701	355618D	670.85	630.50	622.95	619.05	616.75	561.70
4	.0860 - .1015	.0858	355620D	622.65	582.25	574.65	570.75	568.35	513.35
4	.1016 - .1171	.1014	355622D	594.80	554.40	546.80	542.90	540.45	485.40
4	.1172 - .1406	.1170	355624D	562.70	522.30	514.70	510.80	508.50	453.40
4	.1407 - .1718	.1562	355626D	596.50	556.10	548.60	544.60	542.30	487.25
4	.1719 - .2031	.1875	355628D	598.40	558.10	550.50	546.60	544.15	489.10
4	.2032 - .2343	.2188	355630D	627.30	587.00	579.40	575.40	573.20	518.15
4	.2344 - .2812	.2500	355632D	634.15	593.75	586.15	582.25	579.95	524.80
4	.2813 - .3437	.3125	355634D	678.65	638.40	630.75	626.90	624.55	569.45
4	.3438 - .4062	.3750	355636D	719.95	679.65	672.15	668.15	665.65	610.65
4	.4063 - .4687	.4375	355638D	787.80	747.40	739.90	735.85	733.55	678.50
4	.4688 - .5312	.5000	355640D	863.15	822.90	815.25	811.35	808.95	754.00

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	\$647.85	\$590.00	\$581.70	\$577.25	\$574.55	\$573.20
4	.0704 - .0859	.0701	355618R1	696.20	638.40	630.00	625.45	622.95	621.50
4	.0860 - .1015	.0858	355620R1	647.85	590.00	581.70	577.25	574.55	573.20
4	.1016 - .1171	.1014	355622R1	619.95	562.15	553.85	549.45	546.75	545.35
4	.1172 - .1406	.1170	355624R1	587.90	530.20	521.75	517.40	514.65	513.35
4	.1407 - .1718	.1562	355626R1	621.80	564.00	555.65	551.20	548.60	547.15
4	.1719 - .2031	.1875	355628R1	623.60	565.90	557.55	553.05	550.40	549.05
4	.2032 - .2343	.2188	355630R1	652.65	594.90	586.45	582.00	579.40	578.00
4	.2344 - .2812	.2500	355632R1	659.35	601.45	593.20	588.85	586.05	584.70
4	.2813 - .3437	.3125	355634R1	703.95	646.30	637.75	633.35	630.75	629.30
4	.3438 - .4062	.3750	355636R1	745.20	687.40	678.90	674.50	671.90	670.45
4	.4063 - .4687	.4375	355638R1	813.05	755.25	746.90	742.50	739.75	738.45
4	.4688 - .5312	.5000	355640R1	888.45	830.75	822.20	817.80	815.15	813.70

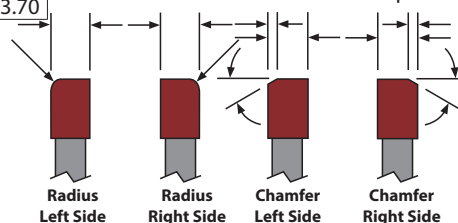
Specify side for radius or chamfer

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

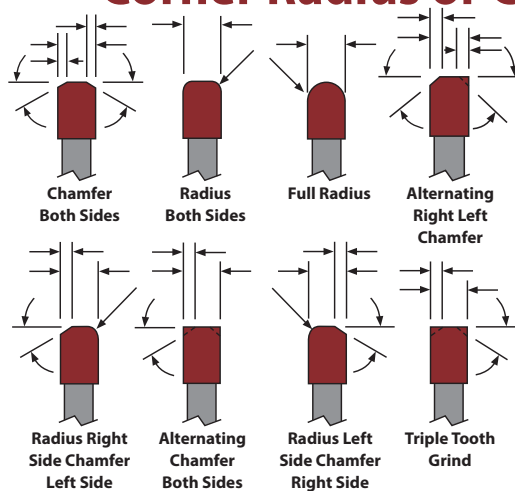
Chamfer Notes

- 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	\$661.55	\$597.85	\$588.60	\$583.75	\$580.80	\$579.25
4	.0704 - .0859	.0701	355618R2	709.85	646.30	637.05	632.05	629.15	627.55
4	.0860 - .1015	.0858	355620R2	661.55	597.85	588.60	583.75	580.80	579.25
4	.1016 - .1171	.1014	355622R2	633.75	570.05	560.70	555.95	552.95	551.40
4	.1172 - .1406	.1170	355624R2	601.80	538.00	528.80	523.85	520.90	519.40
4	.1407 - .1718	.1562	355626R2	635.60	571.80	562.60	557.70	554.70	553.20
4	.1719 - .2031	.1875	355628R2	637.50	573.65	564.35	559.70	556.70	555.10
4	.2032 - .2343	.2188	355630R2	666.45	602.60	593.50	588.50	585.60	584.00
4	.2344 - .2812	.2500	355632R2	673.05	609.45	600.15	595.25	592.25	590.80
4	.2813 - .3437	.3125	355634R2	717.85	654.05	644.80	639.85	637.10	635.35
4	.3438 - .4062	.3750	355636R2	758.90	695.20	685.95	681.10	678.20	676.65
4	.4063 - .4687	.4375	355638R2	826.80	763.05	753.70	748.95	746.05	744.40
4	.4688 - .5312	.5000	355640R2	902.25	838.45	829.20	824.35	821.55	819.95

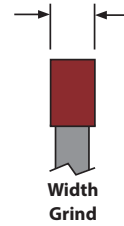
5" CARBIDE TIPPED MILLING CUTTERS FOR STEEL

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	\$807.20	\$766.05	\$758.40	\$754.25	\$751.85	\$695.50
5	.0860-.1015	.0848	355644D	812.10	770.85	763.20	759.15	756.70	700.45
5	.1016-.1171	.1004	355646D	765.05	723.95	716.20	712.10	709.70	653.50
5	.1172-.1406	.1160	355648D	678.35	637.20	629.35	625.30	622.95	566.65
5	.1407-.1718	.1562	355650D	691.40	650.20	642.50	638.40	636.05	579.70
5	.1719-.2031	.1875	355652D	732.15	690.90	683.20	679.10	676.75	620.50
5	.2032-.2343	.2188	355654D	749.85	708.70	700.75	696.75	694.35	638.10
5	.2344-.2812	.2500	355656D	777.25	736.00	728.25	724.25	721.90	665.55
5	.2813-.3437	.3125	355658D	835.40	794.30	786.50	782.50	780.00	723.90
5	.3438-.4062	.3750	355660D	893.80	852.65	844.75	840.85	838.30	782.15
5	.4063-.4687	.4375	355662D	980.75	939.50	931.75	927.60	925.30	869.05
5	.4688-.5312	.5000	355664D	1077.30	1036.00	1028.35	1024.25	1021.95	965.55



Cutter Notes (All cutters on page)

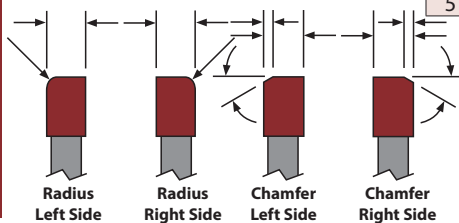
- 24 Teeth
- C-5 Carbide
- 1° - 3° Positive Radial Rake
- Width Tolerance: +.001"/-.000"
- OD tolerance: +.0313"/-.000"
- 1" Arbor hole +.001"/-.000"
- ANSI standard keyway dimensions
- Add 5% to grind the hub width thinner
- Add 5% to match OD's on cutter sets within .001"
- Not designed to be used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

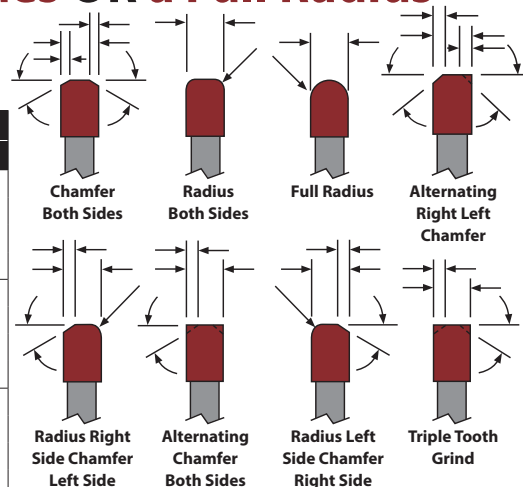
TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
5	.0704-.0859	.0691	355642R1	\$832.80	\$773.85	\$765.25	\$760.75	\$758.05	\$756.60
5	.0860-.1015	.0848	355644R1	837.80	778.85	770.20	765.75	762.95	761.50
5	.1016-.1171	.1004	355646R1	790.70	731.70	723.10	718.60	716.05	714.60
5	.1172-.1406	.1160	355648R1	703.90	644.95	636.25	631.90	629.15	627.75
5	.1407-.1718	.1562	355650R1	717.00	658.05	649.45	644.95	642.35	640.80
5	.1719-.2031	.1875	355652R1	757.70	698.75	690.25	685.70	683.05	681.55
5	.2032-.2343	.2188	355654R1	775.40	716.45	707.80	703.40	700.60	699.20
5	.2344-.2812	.2500	355656R1	802.90	743.95	735.30	730.80	728.10	726.55
5	.2813-.3437	.3125	355658R1	861.10	802.05	793.55	789.10	786.35	784.95
5	.3438-.4062	.3750	355660R1	919.50	860.45	851.75	847.30	844.55	843.25
5	.4063-.4687	.4375	355662R1	1006.25	947.40	938.75	934.30	931.60	930.15
5	.4688-.5312	.5000	355664R1	1102.85	1043.90	1035.25	1030.80	1028.20	1026.65

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	\$860.25	\$789.50	\$779.20	\$773.85	\$770.65	\$768.90
5	.0860-.1015	.0848	355644R2	865.25	794.40	784.15	778.60	775.40	773.80
5	.1016-.1171	.1004	355646R2	818.15	747.40	737.05	731.60	728.40	726.70
5	.1172-.1406	.1160	355648R2	731.40	660.55	650.30	644.85	641.65	639.95
5	.1407-.1718	.1562	355650R2	744.40	673.75	663.40	657.95	654.75	653.05
5	.1719-.2031	.1875	355652R2	785.20	714.45	704.05	698.75	695.50	693.70
5	.2032-.2343	.2188	355654R2	802.90	732.15	721.90	716.35	713.15	711.30
5	.2344-.2812	.2500	355656R2	830.25	759.50	749.20	743.90	740.60	738.85
5	.2813-.3437	.3125	355658R2	888.60	817.80	807.45	802.00	798.85	797.10
5	.3438-.4062	.3750	355660R2	946.80	876.10	865.75	860.30	857.10	855.40
5	.4063-.4687	.4375	355662R2	1033.80	963.10	952.70	947.25	943.95	942.35
5	.4688-.5312	.5000	355664R2	1130.30	1059.60	1049.20	1043.80	1040.70	1038.90





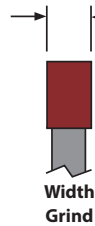
6" CARBIDE TIPPED MILLING CUTTERS FOR STEEL

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	\$907.15	\$861.95	\$853.10	\$848.50	\$845.85	\$782.00
6	.0860 - .1015	.0838	355668D	841.55	796.40	787.60	783.00	780.30	716.35
6	.1016 - .1171	.0994	355670D	909.85	864.60	855.80	851.25	848.45	784.65
6	.1172 - .1406	.1150	355672D	876.90	831.65	822.90	818.25	815.55	751.65
6	.1407 - .1718	.1562	355674D	876.50	831.10	822.40	817.80	815.10	751.30
6	.1719 - .2031	.1875	355676D	931.20	886.00	877.25	872.65	869.90	805.95
6	.2032 - .2343	.2188	355678D	945.00	899.80	891.05	886.45	883.70	819.85
6	.2344 - .2812	.2500	355680D	1001.65	956.30	947.55	942.95	940.25	876.35
6	.2813 - .3437	.3125	355682D	1013.75	968.45	959.65	955.05	952.40	888.60
6	.3438 - .4062	.3750	355684D	1047.95	1002.50	993.70	989.15	986.50	922.70
6	.4063 - .4687	.4375	355690D	1150.45	1105.15	1096.40	1091.65	1089.05	1025.10
6	.4688 - .5312	.5000	355692D	1264.25	1219.10	1210.40	1205.65	1203.00	1139.10

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	\$934.20	\$870.45	\$860.80	\$855.65	\$852.65	\$850.95
6	.0860 - .1015	.0838	355668R1	868.50	804.90	795.15	790.10	787.05	785.35
6	.1016 - .1171	.0994	355670R1	936.80	873.10	863.40	858.40	855.35	853.65
6	.1172 - .1406	.1150	355672R1	903.80	840.25	830.50	825.35	822.30	820.60
6	.1407 - .1718	.1562	355674R1	903.45	839.80	830.05	825.00	821.90	820.30
6	.1719 - .2031	.1875	355676R1	958.20	894.50	884.75	879.65	876.65	875.05
6	.2032 - .2343	.2188	355678R1	972.10	908.40	898.55	893.60	890.50	888.85
6	.2344 - .2812	.2500	355680R1	1028.55	964.85	955.05	950.10	947.10	945.40
6	.2813 - .3437	.3125	355682R1	1040.85	977.00	967.30	962.25	959.25	957.60
6	.3438 - .4062	.3750	355684R1	1074.85	1011.10	1001.45	996.35	993.30	991.60
6	.4063 - .4687	.4375	355690R1	1177.40	1113.55	1103.90	1098.80	1095.85	1094.20
6	.4688 - .5312	.5000	355692R1	1291.30	1227.55	1217.90	1212.75	1209.70	1208.15

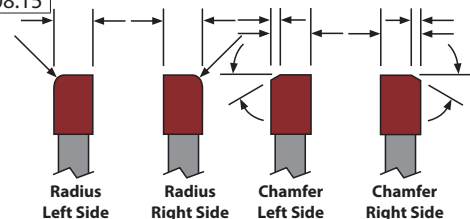
Radius Notes

- 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

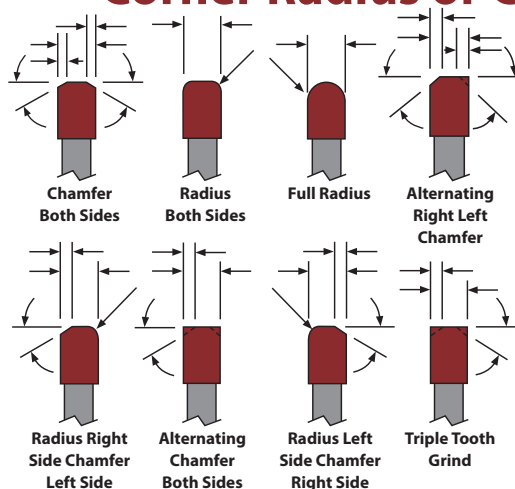
- Chamfer Angles can range from 0° to 45°
- Chamfer is measured off of the OD
- Maximum chamfer is the LESSER of ½ the width of the cutter OR .2656" length of angle when measured across the OD
- Chamfer Angle Tolerance: +/- ½°
- Chamfers greater than 45° must be quoted

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	\$963.50	\$887.55	\$875.80	\$869.90	\$866.20	\$864.30
6	.0860 - .1015	.0838	355668R2	897.90	821.85	810.25	804.20	800.60	798.70
6	.1016 - .1171	.0994	355670R2	966.15	890.15	878.55	872.45	869.00	866.90
6	.1172 - .1406	.1150	355672R2	933.15	857.10	845.55	839.45	836.00	833.95
6	.1407 - .1718	.1562	355674R2	932.75	856.80	845.20	839.10	835.50	833.55
6	.1719 - .2031	.1875	355676R2	987.50	911.50	899.85	893.80	890.30	888.20
6	.2032 - .2343	.2188	355678R2	1001.35	925.30	913.75	907.70	904.15	902.15
6	.2344 - .2812	.2500	355680R2	1057.75	981.80	970.30	964.20	960.60	958.60
6	.2813 - .3437	.3125	355682R2	1070.10	994.05	982.40	976.45	972.85	970.85
6	.3438 - .4062	.3750	355684R2	1104.15	1028.20	1016.55	1010.40	1006.95	1004.90
6	.4063 - .4687	.4375	355690R2	1206.60	1130.65	1119.00	1113.05	1109.45	1107.45
6	.4688 - .5312	.5000	355692R2	1320.60	1244.55	1233.00	1226.95	1223.40	1221.35

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

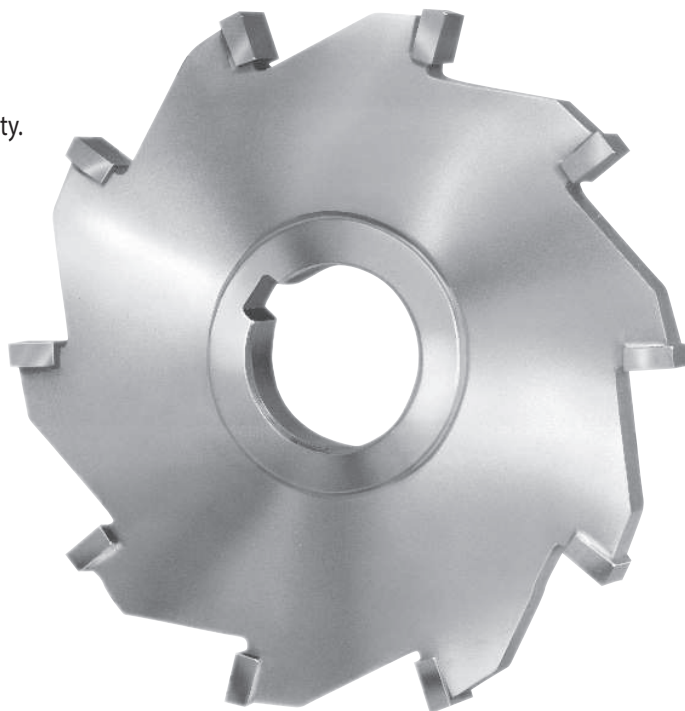
Carbide tips brazed to alloy steel bodies.

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	-	\$190.00	6	354130	-	\$237.70	6	354230	-	\$234.70	8	354330	-	\$292.75
3	5/16	.3125	4	354031	-	199.50	6	354131	-	238.75	6	354231	-	237.85	8	354331	-	306.75
3	3/8	.3750	4	354032	-	206.80	6	354132	-	243.45	6	354232	-	240.90	8	354332	-	310.90
3	7/16	.4375	4	354033	-	215.25	6	354133	-	263.30	6	354233	-	268.65	-	-	-	-
3	1/2	.5000	4	354034	-	225.65	6	354134	-	274.20	6	354234	-	272.25	8	354334	-	347.60
4	1/4	.2500	4	354040	-	247.65	8	354140	-	307.05	8	354240	-	309.05	10	354340	-	366.10
4	5/16	.3125	4	354041	-	254.70	8	354141	-	317.40	8	354241	-	328.15	10	354341	-	384.55
4	3/8	.3750	4	354042	354043	261.40	8	354142	354143	333.50	8	354242	354243	328.15	10	354342	354343	393.20
4	7/16	.4375	4	354074	-	262.60	8	354174	-	340.25	8	354274	-	337.95	10	354374	-	426.95
4	1/2	.5000	4	354044	354045	262.60	8	354144	354145	351.45	8	354244	354245	349.70	10	354344	354345	430.15
4	5/8	.6250	4	354094	-	285.45	8	354194	-	361.15	8	354294	-	367.00	-	-	-	-
4	3/4	.7500	4	354046	354047	306.30	8	354146	354147	391.45	8	354246	354247	429.00	10	354346	354347	453.00
4	3/4	.7500	4	354048	354049	343.25	8	354148	354149	391.45	8	354248	354249	434.45	10	354348	354349	466.55
5	1/4	.2500	6	354050	-	346.00	10	354150	-	406.65	10	354250	-	406.85	-	-	-	-
5	5/16	.3125	-	-	-	-	10	354151	-	406.65	10	354251	-	406.85	-	-	-	-
5	3/8	.3750	-	-	-	-	10	-	354153	416.45	10	-	354253	427.15	-	-	-	-
5	7/16	.4375	6	-	354075	359.95	10	-	354175	418.50	10	-	354275	440.90	-	-	-	-
5	1/2	.5000	6	354054	354055	364.25	10	354154	354155	444.25	10	354254	354255	440.95	12	354354	354355	494.15
5	5/8	.6250	6	-	354095	375.90	10	-	354195	451.95	10	-	354295	460.45	-	-	-	-
5	3/4	.7500	6	-	354057	395.45	10	-	354157	481.00	10	-	354257	540.40	12	-	354357	539.70
5	3/4	.7500	6	354058	354059	421.60	10	354158	354159	544.60	10	354258	354259	598.10	12	354358	354359	605.25
5	1	1.0000	6	-	354015	422.25	10	-	354115	592.65	10	-	354215	630.85	-	-	-	-
6	3/8	.3750	6	354062	-	371.30	12	-	354163	511.65	12	-	354263	540.55	-	-	-	-
6	1/2	.5000	6	354064	354065	406.65	12	354164	354165	543.35	12	354264	354265	556.70	14	354364	354365	635.65
6	5/8	.6250	6	-	354067	445.65	12	-	354167	593.80	12	-	354267	605.60	14	-	354367	640.80
6	3/4	.7500	6	354068	354069	512.50	12	354168	354169	666.25	12	354268	354269	689.95	14	354368	354369	691.45
6	1	1.0000	6	-	354016	587.45	12	-	354116	673.30	12	-	354216	703.90	-	-	-	-
				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	666.70	12	354188	354189	699.20	12	354288	354289	725.35	14	354388	-	741.35
8	1	1.0000	8	354080	354081	723.50	12	354180	354181	728.70	12	354280	354281	754.95	-	-	-	-

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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	\$593.25
4	1/2	1 1/4	10	371416	371616	372416	372616	734.15
4	3/4	1 1/4	10	371424	371624	372424	372624	796.45

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	\$499.45
3	1/2	1	8	375008	375208	375408	622.85
4	1/2	1 1/4	10	375016	375216	375416	770.85
4	3/4	1 1/4	10	375024	375224	375424	836.15
4	1	1 1/4	10	-	375232	375432	978.60

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".

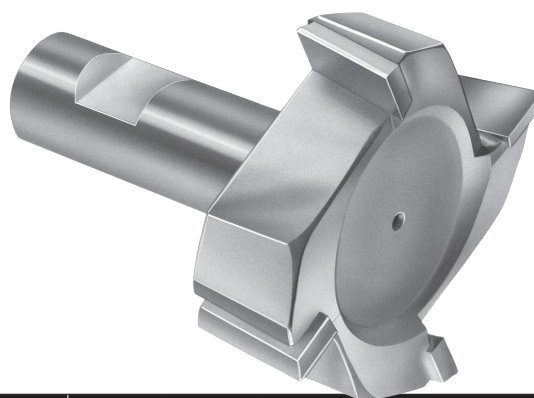
TOOL DIAMETER	ARBOR HOLE	CARBIDE LENGTH	OVERALL LENGTH	DRIVE SLOTS		TYPE 3530 FOR NON-FERROUS			TYPE 3531 FOR CAST IRON			TYPE 3532 FOR STEEL		
				WIDTH	DEPTH	NO. OF TEETH	EDP NO.	PRICE EACH	NO. OF TEETH	EDP NO.	PRICE EACH	NO. OF TEETH	EDP NO.	PRICE EACH
1 1/4	1/2	1/2	1	1/4	5/32	4	353024	\$284.15	4	353124	\$284.15	4	353224	\$295.55
1 1/2	1/2	1/2	1 1/8	1/4	5/32	4	353026	295.85	4	353126	295.85	4	353226	307.65
1 3/4	3/4	1/2	1 1/4	5/16	3/16	4	353028	368.70	4	353128	368.70	4	353228	383.35
2	3/4	5/8	1 3/8	5/16	3/16	4	353032	387.15	4	353132	411.90	4	353232	428.30
2 1/4	1	5/8	1 1/2	3/8	7/32	6	353036	409.00	6	353136	445.95	6	353236	463.80
2 1/2	1	5/8	1 5/8	3/8	7/32	6	353040	430.60	6	353140	486.10	6	353240	486.10
2 3/4	1	5/8	1 5/8	3/8	7/32	6	353044	454.45	6	353144	509.95	6	353244	509.95
3	1 1/4	3/4	1 3/4	1/2	9/32	6	353048	498.15	6	353148	554.65	6	353248	554.65
3 1/2	1 1/4	3/4	1 7/8	1/2	9/32	6	353056	609.75	8	353156	652.30	6	353256	689.45
4	1 1/2	3/4	2 1/4	5/8	3/8	6	353064	766.20	8	353164	806.95	6	353264	856.50

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	\$264.85	4	353724	\$264.85	4	353824	\$272.50
2	3/4	3/4	1/2	1/4	2 7/8	4	353632	323.75	4	353732	323.75	4	353832	331.35
2 1/2	3/4	3/4	1/2	1/4	2 7/8	6	353640	364.55	6	353740	364.55	6	353840	374.35
3 1/2	1 1/4	1 1/8	5/8	5/16	4	6	353656	629.15	6	353756	629.15	8	353856	650.75
3 1/2	1 1/2	1 1/8	5/8	5/16	4	6	353657	660.65	6	353757	660.65	8	353857	683.20
4	1 1/2	1 1/2	3/4	3/8	5	8	353664	706.95	8	353764	706.95	8	353864	707.80

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	\$93.65
3/8	1/4	5/64	356112	358112	359112	358412	93.65
1/2	3/8	3/32	356116	358116	359116	358416	111.20
3/4	1/2	1/8	356124	358124	359124	358424	139.10
1	1/2	1/8	356132	358132	359132	358432	181.65
1 1/4	1/2	5/32	356140	358140	359140	358440	231.20
1 1/2	1/2	3/16	356148	358148	359148	358448	259.25

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	\$103.00
3/8	1/4	7/64	356312	358312	359012	358512	103.00
1/2	3/8	9/64	356316	358316	359016	358516	122.35
5/8	3/8	5/16	356320	358320	359020	358520	128.70
3/4	1/2	3/16	356324	358324	359024	358524	154.75
7/8	1/2	3/16	356328	358328	359028	358528	177.35
1	1/2	1/4	356332	358332	359032	358532	193.45
1 1/4	1/2	5/16	356340	358340	359040	358540	240.70
1 1/2	1/2	3/8	356348	358348	359048	358548	280.70

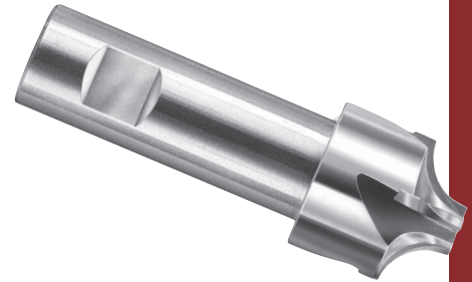
CARBIDE TIPPED CORNER ROUNDING END MILLS

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	\$184.55	374102	\$199.50
3/32	1/2	3/8	17/64	13/32	2 3/4	374003	184.55	374103	199.50
1/8	5/8	1/2	19/64	13/32	3	374004	191.15	374104	206.25
5/32	3/4	1/2	23/64	13/32	3	374005	202.75	374105	218.90
3/16	7/8	3/4	13/32	13/32	3 1/4	374006	214.45	374106	231.55
1/4	1	3/4	13/32	15/32	3 1/4	374008	244.45	374108	263.90
5/16	1 1/8	7/8	13/32	19/32	3 1/2	374010	251.10	374110	271.20
3/8	1 1/4	7/8	13/32	25/32	3 3/4	374012	260.85	374112	281.75
7/16	1 3/8	1	13/32	7/8	4	374014	290.50	374114	313.75
1/2	1 1/2	1	13/32	1	4	374016	323.25	374116	349.30
5/8	2	1 1/4	21/32	1 7/32	4 1/4	374020	397.80	374120	429.70

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	\$256.25
.6250	5/8	5/8	2	1 1/4	3 3/8	331820	286.45
.7500	3/4	3/4	2	1 1/4	3 3/8	331824	303.55
.8750	7/8	7/8	2	1 1/2	3 3/4	331828	333.80
1.0000	1	1	2	1 1/2	4	331832	383.65
1.2500	1 1/4	1 1/4	2	1 3/4	4 1/4	331840	521.45
1.5000	1 1/2	1 1/2	2	2	4 3/4	331848	608.45

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	\$153.20	331212	\$159.30
.4375	7/16	3/8	3	3/4	2 1/2	331414	156.65	331214	162.80
.5000	1/2	1/2	3	3/4	3	331416	160.80	331216	166.80
.5625	9/16	1/2	3	3/4	3	331418	166.95	331218	173.45
.6250	5/8	5/8	3	3/4	3 1/4	331420	195.45	331220	202.80
.7500	3/4	5/8	3	3/4	3 3/8	331424	204.50	331224	212.40
.8750	7/8	7/8	3	3/4	3 3/4	331428	238.70	331228	247.95
1.0000	1	7/8	3	3/4	3 3/4	331432	262.20	331232	272.35
1.1250	1 1/8	1	3	3/4	4	331436	280.90	331236	291.60
1.2500	1 1/4	1	3	3/4	4	331440	325.45	331240	338.10
1.5000	1 1/2	1 1/4	3	3/4	4	331448	386.95	331248	401.90

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	\$195.90
.8750	7/8	3/4	1 1/2	3 3/4	4	332328	335328	224.35
1.0000	1	3/4	1 1/2	4	6	332332	335332	314.70
1.1250	1 1/8	3/4	1 3/4	4 1/4	6	332336	335336	370.20
1.2500	1 1/4	3/4	1 3/4	4 1/4	6	332340	335340	424.40
1.5000	1 1/2	3/4	2	4 1/2	6	332348	335348	488.35

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	\$173.70
.6250	5/8	5/8	1 1/4	3 3/8	4	332220	335520	200.50
.7500	3/4	5/8	1 1/4	3 3/8	4	332224	335524	223.35
1.0000	1	1	1 1/2	4	6	332232	335532	358.65
1.1250	1 1/8	1	1 3/4	4 1/4	6	332236	335536	422.05
1.2500	1 1/4	1	1 3/4	4 1/4	6	332240	335540	483.80
1.5000	1 1/2	1 1/4	2	4 1/2	6	332248	335548	556.70
1.7500	1 3/4	1 1/4	2	4 1/2	8	332256	335556	700.25
2.0000	2	1 1/4	2	4 1/2	8	332264	335564	791.10

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.

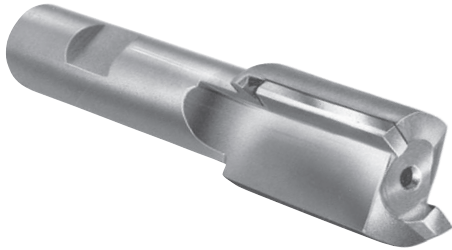


TOOL DIAMETER		SHANK DIAM.	CARBIDE TIP LENGTH	OVER ALL LENGTH	NO. OF FLUTES	NON-FERR. TYPE 3337 EDP NO.	PRICE EACH
DECIMAL	FRAC.						
.5000	1/2	1/2	1	3	2	333716	\$173.70
.6250	5/8	5/8	1 1/4	3 3/8	2	333720	200.50
.7500	3/4	5/8	1 1/4	3 3/8	2	333724	223.35
1.0000	1	1	1 1/2	4	2	333732	295.40
1.2500	1 1/4	1	1 3/4	4 1/4	3	333740	428.95
1.5000	1 1/2	1 1/4	2	4 1/2	3	333748	519.70
2.0000	2	1 1/4	2	4 1/2	3	333764	759.05

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.	FRACTIONAL				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	\$95.75	2	330808	331008	\$98.55
.3125	5/16	3/8	5/8	2 1/2	2	330010	99.70	2	330810	331010	106.30
.3750	3/8	3/8	5/8	2 1/2	2	330012	106.45	2	330812	331012	112.70
.4375	7/16	3/8	1	2 1/16	2	330014	106.45	2	330814	331014	112.70
.5000	1/2	1/2	1	3 1/4	2	330016	108.90	4	330816	331016	121.40
.5625	9/16	1/2	1	3 3/8	2	330018	120.80	4	330818	331018	130.45
.6250	5/8	1/2	1	3 3/8	2	330020	120.80	4	330820	331020	160.95
.7500	3/4	5/8	1	3 3/8	2	330024	135.60	4	330824	331024	179.35
.8750	7/8	5/8	1 1/4	4	2	330028	160.20	4	330828	331028	216.10
1.0000	1	7/8	1 1/4	4	2	330032	177.05	6	330832	331032	248.40
1.1250	1 1/8	1	1 1/4	4 1/4	2	330036	181.35	6	330836	331036	263.45
1.2500	1 1/4	1	1 1/4	4 1/4	2	330040	202.20	6	330840	331040	318.40
1.5000	1 1/2	1 1/4	1 1/2	4 1/2	2	330048	260.45	6	330848	331048	387.25
1.7500	1 3/4	1 1/4	1 1/2	4 1/2	2	330056	292.10	8	330856	331056	466.35
2.0000	2	1 1/4	1 1/2	4 1/2	2	330064	348.85	8	330864	331064	520.60

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.

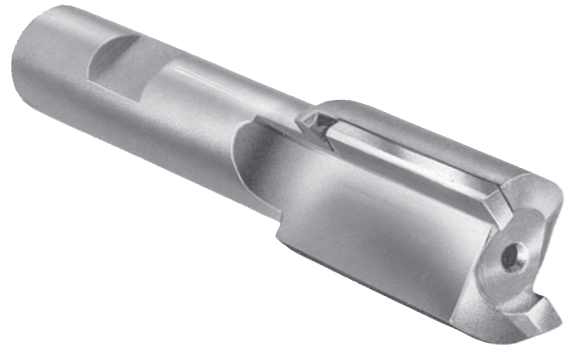
TOOL DIAMETER		SHANK DIAM.	CARB. TIP LEN.	OVER ALL LEN.	TYPE 3350 - 15° RIGHT SPIRAL		
DECIMAL	FRACTIONAL				NO. OF FLTS.	EDP NO.	PRICE EACH
.5000	1/2	3/8	1	3	4	335016	\$152.30
.5000	1/2	1/2	1	3	4	335017	152.30
.5625	9/16	1/2	1	3	4	335018	163.55
.6250	5/8	1/2	1 1/4	3 1/4	4	335020	176.15
.6250	5/8	5/8	1 1/4	3 3/8	4	335021	176.15
.6875	11/16	1/2	1 1/4	3 1/4	4	335022	183.50
.6875	11/16	5/8	1 1/4	3 3/8	4	335023	183.50
.7500	3/4	1/2	1 1/4	3 1/4	4	335024	195.90
.7500	3/4	5/8	1 1/4	3 3/8	4	335025	195.90
.8125	13/16	5/8	1 1/2	3 5/8	4	335026	211.40
.8750	7/8	5/8	1 1/2	3 5/8	4	335028	224.35
.8750	7/8	7/8	1 1/2	3 3/4	4	335029	224.35

TOOL DIAMETER		SHANK DIAM.	CARB. TIP LEN.	OVER ALL LEN.	TYPE 3350 - 15° RIGHT SPIRAL		
DECIMAL	FRACTIONAL				NO. OF FLTS.	EDP NO.	PRICE EACH
.9375	15/16	5/8	1 1/2	3 3/4	4	335030	\$332.35
.9375	15/16	7/8	1 1/2	3 3/4	4	335031	332.35
1.0000	1	7/8	1 1/2	3 3/4	6	335032	314.70
1.0000	1	1	1 1/2	4	6	335033	314.70
1.1250	1 1/8	1	1 3/4	4 1/4	6	335036	370.35
1.2500	1 1/4	1	1 3/4	4 1/4	6	335040	424.50
1.3750	1 3/8	1	1 3/4	4 1/4	6	335044	495.95
1.5000	1 1/2	1 1/4	2	4 1/2	6	335048	488.50
1.6250	1 5/8	1 1/4	2	4 1/2	8	335052	651.20
1.7500	1 3/4	1 1/4	2	4 1/2	8	335056	694.55
1.8750	1 7/8	1 1/4	2	4 1/2	8	335060	742.75
2.0000	2	1 1/4	2	4 1/2	8	335064	784.45

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

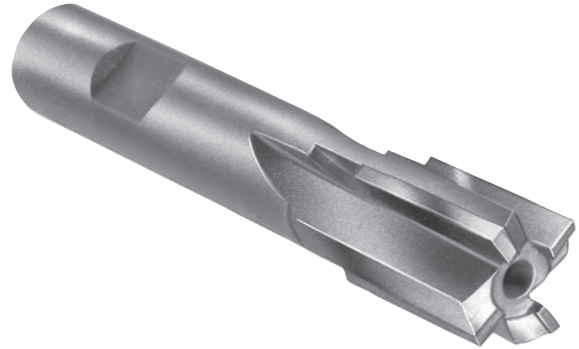
TYPE 3302 - TWO STRAIGHT FLUTES - RADIAL EDGED

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: +.002"/-.000".

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

Shank diameter tolerance: -.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	\$83.30	4	330408	\$84.10	4	330508	\$84.10	2	330608	\$85.15	2	330708	\$90.30
.3125	5/16	3/8	5/8	2 1/2	2	330210	86.45	4	330410	89.85	-	-	-	2	330610	88.20	-	-	-
.3750	3/8	3/8	5/8	2 1/2	2	330212	92.75	4	330412	94.65	-	-	-	2	330612	94.45	-	-	-
.4375	7/16	3/8	1	2 1/16	2	330214	92.75	4	330414	94.65	4	330514	91.05	2	330614	94.45	2	330714	100.10
.5000	1/2	1/2	1	3 1/4	2	330216	95.05	4	330416	96.90	4	330516	96.75	2	330616	96.95	2	330716	102.65
.5625	9/16	1/2	1	3 3/8	2	330218	105.10	4	330418	108.75	4	330518	108.55	2	330618	107.40	2	330718	113.50
.6250	5/8	1/2	1	3 3/8	2	330220	105.10	4	330420	113.90	4	330520	113.75	4	330620	111.55	4	330720	118.05
.6875	11/16	5/8	1	3 3/8	2	330222	113.75	4	330422	125.40	4	330522	125.10	-	-	-	-	-	-
.7500	3/4	5/8	1	3 5/8	2	330224	118.05	4	330424	117.25	4	330524	129.90	4	330624	127.40	4	330724	134.75
.8125	13/16	5/8	1	3 5/8	2	330226	142.65	4	330426	138.50	4	330526	148.70	-	-	-	-	-	-
.8750	7/8	5/8	1 1/4	4	2	330228	143.55	4	330428	138.50	4	330528	153.75	4	330628	170.30	4	330728	180.45
.9375	15/16	7/8	1 1/4	4	2	330230	153.75	4	330430	153.85	4	330530	163.55	-	-	-	-	-	-
1.0000	1	7/8	1 1/4	4	2	330232	154.15	4	330432	160.05	4	330532	177.45	4	330632	196.75	4	330732	208.40
1.1250	1 1/8	1	1 1/4	4 1/4	2	330236	158.20	4	330436	181.50	4	330536	201.05	4	330636	223.15	-	-	-
1.2500	1 1/4	1	1 1/4	4 1/4	2	330240	190.80	4	330440	204.10	4	330540	226.10	4	330640	250.80	4	330740	265.15
1.5000	1 1/2	1 1/4	1 1/2	4 1/2	2	330248	236.25	4	330448	263.15	4	330548	280.10	4	330648	310.45	4	330748	316.65
1.7500	1 3/4	1 1/4	1 1/2	4 1/2	2	330256	280.10	6	330456	339.20	-	-	-	6	330656	400.75	-	-	-
2.0000	2	1 1/4	1 1/2	4 1/2	2	330264	312.45	6	330464	390.75	-	-	-	6	330664	461.45	6	330764	470.25

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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	\$140.35	2	-	332516	\$152.30
.5000	1/2	1/2	1	3	4	332017	\$152.30	2	337517	140.35	2	-	332517	152.30
.5625	9/16	1/2	1	3	-	-	-	2	337518	150.90	2	-	332518	163.55
.6250	5/8	1/2	1 1/4	3 1/4	-	-	-	2	337520	162.20	2	-	332520	176.15
.6250	5/8	5/8	1 1/4	3 3/8	4	332021	176.15	2	337521	162.20	2	332721	332521	176.15
.6875	11/16	1/2	1 1/4	3 1/4	-	-	-	2	337522	169.10	2	-	332522	183.50
.6875	11/16	5/8	1 1/4	3 3/8	4	332023	183.50	2	337523	169.10	2	-	332523	183.50
.7500	3/4	1/2	1 1/4	3 1/4	-	-	-	2	337524	180.50	2	332724	332524	195.90
.7500	3/4	5/8	1 1/4	3 3/8	4	332025	195.90	2	337525	180.50	2	332725	332525	195.90
.8125	13/16	5/8	1 1/2	3 5/8	4	332026	211.40	2	337526	194.85	2	332726	332526	211.40
.8750	7/8	5/8	1 1/2	3 5/8	-	-	-	2	337528	206.90	2	-	332528	224.35
.8750	7/8	7/8	1 1/2	3 3/4	4	332029	224.35	2	337529	206.90	2	-	332529	224.35
.9375	15/16	5/8	1 1/2	3 3/4	-	-	-	3	337530	306.20	2	-	332530	253.80
.9375	15/16	7/8	1 1/2	3 3/4	-	-	-	3	337531	306.20	2	-	332531	253.80
1.0000	1	7/8	1 1/2	3 3/4	-	-	-	3	337532	289.90	2	332732	332532	259.10
1.0000	1	1	1 1/2	4	6	332033	314.70	3	337533	289.90	2	332733	332533	259.10
1.1250	1 1/8	1	1 3/4	4 1/4	6	332036	370.35	3	337536	341.40	2	-	332536	283.70
1.2500	1 1/4	1	1 3/4	4 1/4	6	332040	424.50	4	337540	391.20	3	332740	332540	376.25
1.3750	1 3/8	1	1 3/4	4 1/4	6	332044	495.95	4	337544	456.85	3	332744	332544	407.95
1.5000	1 1/2	1 1/4	2	4 1/2	6	332048	488.50	4	337548	450.15	3	332748	332548	455.60
1.6250	1 5/8	1 1/4	2	4 1/2	-	-	-	4	337552	550.60	3	-	332552	539.30
1.7500	1 3/4	1 1/4	2	4 1/2	8	332056	614.20	4	337556	587.05	3	-	332556	578.65
1.8750	1 7/8	1 1/4	2	4 1/2	-	-	-	4	337560	628.00	3	-	332560	622.85
2.0000	2	1 1/4	2	4 1/2	8	332064	694.00	4	337564	663.35	3	332764	332564	665.85

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	\$500.85
M 10X1	.3560	.7870	.5000	3	12°	2	.4530	1 ¼	3 ¼	3786100	3787100	500.85
M 12X1.5	.4150	.9060	.5000	3	15°	2	.5510	1 ¼	3 ¼	3786120	3787120	524.60
M 14X1.5	.4930	.9840	.5000	3	15°	2	.5510	1 ¼	3 ¼	3786140	3787140	524.60
M 16X1.5	.5720	1.1020	.5000	3	15°	2	.6100	1 ¼	3 ¼	3786160	3787160	577.65
M 18X1.5	.6510	1.1810	.7500	3	15°	2	.6690	1 ⅜	3 ⅜	3786180	3787180	577.65
M 20X1.5	.7300	1.2600	.7500	3	15°	2	.6890	1 ⅜	3 ⅜	3786200	3787200	599.95
M 22X1.5	.8080	1.3390	.7500	3	15°	2	.7090	1 ⅜	3 ⅜	3786220	3787220	622.15
M 27X2	.9850	1.5750	.7500	3	15°	2 ¼	.8660	1 ⅞	4 ⅞	3786270	3787270	672.55
M 33X2	1.2210	1.9290	.7500	3	15°	2 ¼	.8660	1 ⅞	4 ⅞	3786330	3787330	773.55
M 42X2	1.5760	2.3620	1.0000	3	15°	2 ¼	.8860	1 ⅞	4 ⅞	3786420	3787420	845.30
M 48X2	1.8120	2.5890	1.0000	4	15°	2 ¼	.9840	2	4 ¼	3786480	3787480	893.65
M 60X2	2.2840	2.9920	1.0000	4	15°	2 ¼	1.0830	2	4 ¼	3786600	3787600	1010.85

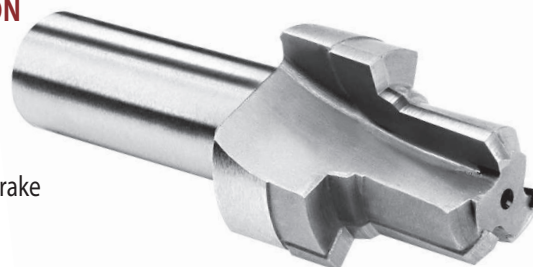
S.A.E. PORTS - MS16142 - J514F - J1926

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.

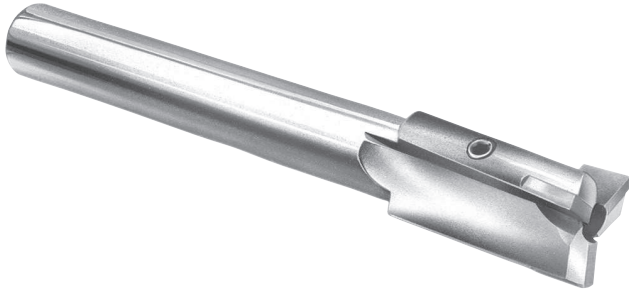
In a single operation, a port contour cutter can produce the form and finish required on internal straight thread o-ring ports. All tolerances are within military specifications. All are manufactured with negative radial rake and 5° axial rake.



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 ⅝	378002	378102	\$465.90
3	⅜	¾-24	.3350	.7600	.5000	12°	2	.4730	1 ¼	3 ¼	378003	378103	465.90
4	¼	⅞-20	.3890	.8380	.5000	12°	2	.5520	1 ¼	3 ¼	378004	378104	465.90
5	⅝	½-20	.4520	.9160	.5000	12°	2	.5520	1 ¼	3 ¼	378005	378105	480.50
6	⅜	⅞-18	.5090	.9790	.5000	12°	2	.6140	1 ¼	3 ¼	378006	378106	480.50
8	½	¾-16	.6890	1.1980	.7500	15°	2	.6930	1 ⅜	3 ⅜	378008	378108	525.90
10	⅝	⅞-14	.8060	1.3540	.7500	15°	2	.7860	1 ⅝	3 ⅝	378010	378110	594.80
12	¾	1 ⅙-12	.9810	1.6350	.7500	15°	2 ¼	.9110	1 ⅞	4 ⅞	378012	378112	641.65
14	⅞	1 ⅜-12	1.1060	1.7750	.7500	15°	2 ¼	.9110	1 ⅞	4 ⅞	378014	378114	652.00
16	1	1 ⅝-12	1.2310	1.9200	.7500	15°	2 ¼	.9110	1 ⅞	4 ⅞	378016	378116	701.75
20	1 ¼	1 ⅝-12	1.5440	2.2800	1.0000	15°	2 ¼	.9110	2	4 ¼	378020	378120	773.10
24	1 ½	1 ⅞-12	1.7940	2.5700	1.0000	15°	2 ¼	.9110	2	4 ¼	378024	378124	950.75
32	2	2 ½-12	2.4190	3.4900	1.0000	15°	2 ¼	.9110	2 ¼	4 ½	378032	378132	1241.65

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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

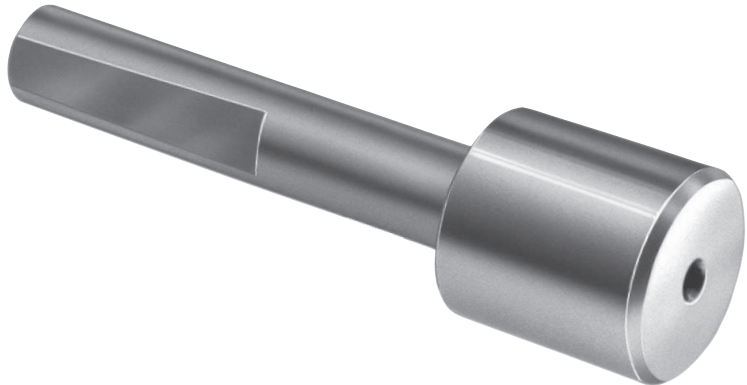
CLASSIFICATION	MATERIAL	COUNTERBORING		FEED RATE (INCHES PER REVOLUTION) FINISHED HOLE DIAMETER IN INCHES					
		BRINELL	SFPM	¼	½	¾	1	1 ½	2
NON-FERROUS (SOFT)	ALUMINUM ALLOY - WROUGHT	30-150*	750-900	.006	.006	.007	.007	.009	.010
	MAGNESIUM ALLOY	50-90*	875-1000	.006	.006	.007	.007	.009	.010
	LEAD	10-20*	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	-	-	-	-	-	-	-	-	\$33.80	\$134.35	\$84.10	\$67.40	\$59.15	\$50.65	\$43.65
.1562	⁵ / ₃₂	350105	350205	-	-	-	-	-	-	-	27.45	127.90	77.75	60.95	52.50	44.30	37.25
.1875	³ / ₁₆	350106	350206	350306	-	-	-	-	-	-	28.00	128.50	78.25	61.50	53.20	44.70	37.75
.2188	⁷ / ₃₂	350107	350207	350307	350407	-	-	-	-	-	31.70	132.25	81.85	65.10	57.00	48.55	41.55
.2500	¹ / ₄	350108	350208	350308	350408	-	-	-	-	-	31.70	132.25	81.85	65.10	57.00	48.55	41.55
.2812	⁹ / ₃₂	350109	350209	350309	350409	350509	-	-	-	-	33.80	134.35	84.10	67.40	59.15	50.65	43.65
.3125	⁵ / ₁₆	350110	350210	350310	350410	350510	-	-	-	-	33.80	134.35	84.10	67.40	59.15	50.65	43.65
.3438	¹¹ / ₃₂	350111	350211	350311	350411	350511	350611	-	-	-	33.80	134.35	84.10	67.40	59.15	50.65	43.65
.3750	³ / ₈	-	350212	350312	350412	350512	350612	-	-	-	37.25	137.80	87.60	70.75	62.40	54.00	47.15
.4062	¹³ / ₃₂	-	350213	350313	350413	350513	350613	-	-	-	37.25	137.80	87.60	70.75	62.40	54.00	47.15
.4375	⁷ / ₁₆	-	350214	350314	350414	350514	350614	350714	-	-	38.15	138.60	88.40	71.65	63.25	55.00	48.00
.4688	¹⁵ / ₃₂	-	350215	-	350415	350515	350615	-	-	-	38.15	138.60	88.40	71.65	63.25	55.00	48.00
.5000	¹ / ₂	-	350216	-	350416	350516	350616	350716	350816	-	43.65	144.25	93.95	77.10	69.05	60.45	53.55
.5312	¹⁷ / ₃₂	-	350217	-	350417	350517	350617	-	350817	-	50.90	151.40	101.20	84.50	76.15	67.70	60.85
.5625	⁹ / ₁₆	-	350218	-	350418	350518	350618	350718	350818	350918	57.15	157.70	107.45	90.65	82.50	74.00	67.05
.5938	¹⁹ / ₃₂	-	350219	-	-	350519	350619	-	350819	350919	62.80	163.25	113.00	96.30	87.85	79.45	72.60
.6250	⁵ / ₈	-	350220	-	350420	350520	350620	350720	350820	350920	62.80	163.25	113.00	96.30	87.85	79.45	72.60
.6562	²¹ / ₃₂	-	-	-	350421	350521	350621	-	350821	-	64.25	164.80	114.45	97.75	89.50	81.05	74.05
.6875	¹¹ / ₁₆	-	-	-	350422	350522	350622	350722	350822	350922	64.25	164.80	114.45	97.75	89.50	81.05	74.05
.7188	²³ / ₃₂	-	-	-	-	350523	350623	-	350823	350923	72.75	173.25	123.00	106.25	97.95	89.50	82.65
.7500	³ / ₄	-	-	-	350424	350524	350624	350724	350824	350924	72.75	173.25	123.00	106.25	97.95	89.50	82.65
.7812	²⁵ / ₃₂	-	-	-	-	350525	350625	-	350825	350925	81.80	182.35	132.10	115.30	107.25	98.60	91.70
.8125	¹³ / ₁₆	-	-	-	350426	350526	350626	350726	350826	350926	81.80	182.35	132.10	115.30	107.25	98.60	91.70
.8438	²⁷ / ₃₂	-	-	-	-	350527	-	-	-	-	90.50	191.05	140.80	124.05	115.60	107.30	100.30
.8750	⁷ / ₈	-	-	-	350428	350528	350628	350728	350828	350928	90.50	191.05	140.80	124.05	115.60	107.30	100.30
.9375	¹⁵ / ₁₆	-	-	-	350430	350530	350630	350730	350830	350930	95.45	195.95	145.70	129.05	120.65	112.20	105.35
1.0000	1	-	-	-	350432	350532	350632	350732	350832	350932	98.75	199.25	149.00	132.25	124.05	115.50	108.70
1.0625	1 ¹ / ₁₆	-	-	-	-	-	350634	350734	350834	350934	102.40	202.85	152.55	135.80	127.45	119.20	112.20
1.1250	1 ¹ / ₈	-	-	-	-	-	350636	350736	350836	350936	123.40	223.95	173.65	156.80	148.70	140.05	133.30
1.1875	1 ³ / ₁₆	-	-	-	-	-	350638	350738	350838	350938	127.20	227.55	177.35	160.70	152.40	143.95	137.00
1.2500	1 ¹ / ₄	-	-	-	-	-	350640	350740	350840	350940	134.05	234.60	184.35	167.50	159.45	150.80	143.95
1.3125	1 ⁵ / ₁₆	-	-	-	-	-	-	350742	350842	350942	141.10	241.60	191.45	174.70	166.40	157.95	150.95
1.3750	1 ³ / ₈	-	-	-	-	-	350644	350744	350844	350944	154.10	254.80	204.55	187.80	179.45	171.00	164.05
1.4375	1 ⁷ / ₁₆	-	-	-	-	-	-	350746	350846	350946	156.00	256.45	206.15	189.35	181.20	172.60	165.85
1.5000	1 ¹ / ₂	-	-	-	-	-	-	-	350848	350948	157.95	258.55	208.35	191.50	183.05	174.75	167.85
1.5625	1 ⁹ / ₁₆	-	-	-	-	-	-	-	350850	350950	159.80	260.60	210.35	193.50	185.15	176.80	169.85
1.6250	1 ⁵ / ₈	-	-	-	-	-	-	-	-	350952	161.55	262.05	211.80	194.95	186.75	178.25	171.45
1.6875	1 ¹¹ / ₁₆	-	-	-	-	-	-	-	-	350954	163.75	264.10	213.90	197.05	188.85	180.30	173.55
1.7500	1 ³ / ₄	-	-	-	-	-	-	-	350856	350956	166.25	266.60	216.30	199.55	191.45	182.80	175.95
1.8750	1 ⁷ / ₈	-	-	-	-	-	-	-	-	350960	200.10	301.00	250.70	233.85	225.55	217.10	210.35
2.0000	2	-	-	-	-	-	-	-	-	350964	200.10	301.00	250.70	233.85	225.55	217.10	210.35

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	\$125.80	3	35152500	\$138.35
.3980	1/4	.2650	.3125	5/16	5 3/8	3	35132650	139.75	3	35152650	153.75
.4140	1/4	.2810	.3125	5/16	5 3/8	3	35132810	139.75	3	35152810	153.75
.4750	5/16	.3125	.3750	3/8	6 1/8	3	35133125	140.65	3	35153125	154.85
.4910	5/16	.3280	.3750	3/8	6 1/8	3	35133280	140.65	3	35153280	154.85
.5070	5/16	.3430	.3750	3/8	6 1/8	3	35133430	140.65	3	35153430	154.85
.5720	3/8	.3750	.5000	1/2	6 1/2	3	35133750	158.60	3	35153750	174.55
.5880	3/8	.3900	.5000	1/2	6 1/2	3	35133900	158.60	3	35153900	174.55
.6040	3/8	.4060	.5000	1/2	6 1/2	3	35134060	158.60	3	35154060	174.55
.6630	7/16	.4375	.5000	1/2	7	3	35134375	153.20	3	35154375	168.55
.6790	7/16	.4530	.5000	1/2	7	3	35134530	153.20	3	35154530	168.55
.6950	7/16	.4680	.5000	1/2	7	3	35134680	153.20	3	35154680	168.55
.7570	1/2	.5000	.5000	1/2	7 1/2	3	35135000	173.75	3	35155000	191.25
.7730	1/2	.5150	.5000	1/2	7 1/2	3	35135150	173.75	3	35155150	191.25
.7890	1/2	.5310	.5000	1/2	7 1/2	3	35135310	173.75	3	35155310	191.25
.8510	9/16	.5625	.5625	5/8	7 3/8	3	35135625	167.95	3	35155625	184.80
.8670	9/16	.5780	.5625	5/8	7 3/8	3	35135780	167.95	3	35155780	184.80
.8830	9/16	.5930	.5625	5/8	7 3/8	3	35135930	167.95	3	35155930	184.80
.9450	5/8	.6250	.6250	5/8	7 3/8	3	35136250	191.45	3	35156250	210.65
.9610	5/8	.6400	.6250	5/8	7 3/8	3	35136400	191.45	3	35156400	210.65
.9770	5/8	.6560	.6250	5/8	7 3/8	3	35136560	191.45	3	35156560	210.65
1.1330	3/4	.7500	.7500	3/4	7 3/4	3	35137500	188.70	3	35157500	207.65
1.1490	3/4	.7650	.7500	3/4	7 3/4	3	35137650	188.70	3	35157650	207.65
1.1650	3/4	.7810	.7500	3/4	7 3/4	3	35137810	188.70	3	35157810	207.65
1.3220	7/8	.8750	.8750	7/8	8 1/8	4	35138750	209.80	4	35158750	230.95
1.3380	7/8	.8910	.8750	7/8	8 1/8	4	35138910	209.80	4	35158910	230.95
1.3540	7/8	.9060	.8750	7/8	8 1/8	4	35139060	209.80	4	35159060	230.95
1.5100	1	1.0000	1.0000	1	8 1/2	4	35130000	240.20	4	35150000	264.30
1.5260	1	1.0150	1.0000	1	8 1/2	4	35130156	240.20	4	35150156	264.30
1.5420	1	1.0310	1.0000	1	8 1/2	4	35130313	240.20	4	35150313	264.30

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	\$139.35	3	3515055	\$153.20
6	.4134	6.5	5/16	5/16	5 3/8	3	3513065	147.10	3	3515065	161.80
8	.5315	8.5	3/8	1/2	6 1/2	3	3513085	174.70	3	3515085	192.10
10	.6496	10.5	1/2	1/2	7	3	3513105	190.00	3	3515105	209.00
12	.7283	12.5	1/2	1/2	7 1/2	3	3513125	178.30	3	3515125	196.00
14	.8465	14.5	9/16	5/8	7 3/8	3	3513145	207.85	3	3515145	228.55
16	.9646	16.5	5/8	5/8	7 3/8	3	3513165	217.25	3	3515165	238.90
20	1.2008	20.5	3/4	7/8	8	3	3513205	201.45	3	3515205	221.50

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".

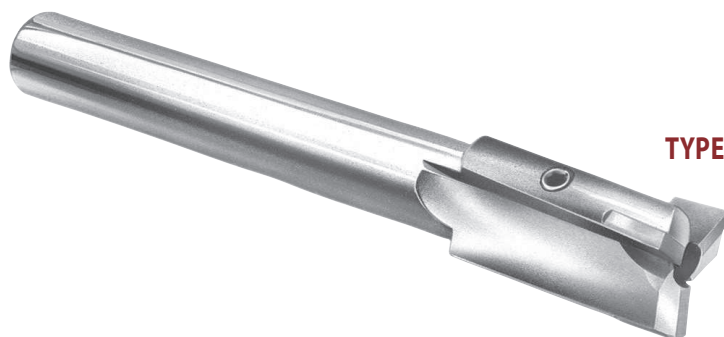
Shank diameter tolerance: +.0000"/-.0005".

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	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	15/64	3 13/16	-	-	3	351408	\$108.15	.2381 - .2530	\$169.25	\$138.75	\$128.60	\$123.50	\$118.25	\$114.15
.2812	9/32	.114	3/32	17/64	3 13/16	-	-	3	351409	132.20	.2531 - .2840	193.15	162.80	152.60	147.55	142.40	138.20
.3125	5/16	.114	3/32	19/64	3 13/16	-	-	3	351410	112.85	.2841 - .3150	170.10	141.55	132.00	127.25	122.40	118.40
.3438	11/32	.114	3/32	5/16	3 13/16	-	-	3	351411	142.90	.3151 - .3470	200.05	171.40	161.80	157.15	152.30	148.25
.3750	3/8	.182	5/32	5/16	4 1/16	-	-	3	351412	119.65	.3471 - .3780	172.55	146.10	137.30	132.90	128.45	124.85
.4062	13/32	.182	5/32	3/8	4 1/16	-	-	3	351413	134.90	.3781 - .4090	187.70	161.40	152.55	148.15	143.70	140.10
.4375	7/16	.182	5/32	3/8	4 1/16	-	-	3	351414	122.80	.4091 - .4410	175.60	149.15	140.35	136.15	131.55	127.95
.4688	15/32	.228	3/16	7/16	4 5/16	-	-	3	351415	149.85	.4411 - .4720	202.75	176.30	167.55	163.25	158.60	155.05
.5000	1/2	.228	3/16	7/16	4 5/16	4	351216	3	351416	136.30	.4721 - .5030	189.10	162.55	153.90	149.45	145.00	141.50
.5312	17/32	.228	3/16	1/2	4 5/16	4	351217	3	351417	154.20	.5031 - .5340	207.05	180.75	171.95	167.55	163.05	159.35
.5625	9/16	.228	3/16	1/2	4 5/16	4	351218	3	351418	140.25	.5341 - .5660	193.15	166.65	157.90	153.45	149.10	145.35
.5938	19/32	.228	3/16	1/2	5 1/8	4	351219	3	351419	155.90	.5661 - .5970	208.65	182.25	173.55	169.10	164.55	160.95
.6250	5/8	.228	3/16	1/2	5 1/8	4	351220	3	351420	141.65	.5971 - .6280	194.45	167.95	159.20	154.90	150.40	146.80
.6562	21/32	.228	3/16	1/2	5 1/8	4	351221	3	351421	164.95	.6281 - .6590	217.70	191.40	182.50	178.15	173.75	170.10
.6875	11/16	.228	3/16	1/2	5 1/8	4	351222	3	351422	150.00	.6591 - .6910	202.90	176.35	167.65	163.35	158.90	155.15
.7188	23/32	.290	1/4	1/2	5 3/8	4	351223	3	351423	168.85	.6911 - .7220	221.50	195.25	186.40	182.20	177.60	174.00
.7500	3/4	.290	1/4	1/2	5 3/8	4	351224	3	351424	153.40	.7221 - .7530	206.25	179.80	171.00	166.65	162.25	158.50
.7812	25/32	.290	1/4	5/8	5 3/8	4	351225	3	351425	172.45	.7531 - .7840	225.20	198.75	190.00	185.65	181.10	177.50
.8125	13/16	.290	1/4	5/8	5 3/8	4	351226	3	351426	156.60	.7841 - .8160	209.40	182.95	174.25	169.80	165.50	161.80
.8438	27/32	.290	1/4	3/4	5 3/8	4	351227	3	351427	182.60	.8161 - .8470	235.45	208.95	200.30	195.85	191.45	187.70
.8750	7/8	.290	1/4	3/4	5 3/8	4	351228	3	351428	166.00	.8471 - .8780	218.90	192.45	183.75	179.30	174.85	171.15
.9062	29/32	.290	1/4	3/4	6 1/8	4	351229	3	351429	186.25	.8781 - .9090	239.20	212.70	203.90	199.65	195.15	191.55
.9375	15/16	.290	1/4	3/4	6 1/8	4	351230	3	351430	169.45	.9091 - .9410	222.35	195.85	187.10	182.75	178.20	174.60
.9688	31/32	.353	5/16	3/4	6 3/8	4	351231	3	351431	191.70	.9411 - .9720	244.50	218.05	209.35	204.95	200.50	196.90
1.0000	1	.353	5/16	3/4	6 3/8	4	351232	3	351432	174.30	.9721 - 1.0030	227.20	200.65	191.85	187.55	183.10	179.45
1.0625	1 1/16	.353	5/16	3/4	6 3/8	4	351234	3	351434	176.15	1.0031 - 1.0660	229.05	202.50	193.70	189.50	184.95	181.30
1.1250	1 1/8	.353	5/16	1	6 3/8	4	351236	3	351436	180.75	1.0661 - 1.1280	233.50	207.05	198.35	193.85	189.50	185.90
1.1875	1 3/16	.353	5/16	1	6 3/8	4	351238	3	351438	188.65	1.1281 - 1.1905	241.45	215.15	206.35	201.95	197.45	193.85
1.2500	1 1/4	.426	3/8	1	6 5/8	-	-	4	351440	210.15	1.1906 - 1.2530	267.35	238.85	229.25	224.60	219.60	215.85
1.3125	1 5/16	.426	3/8	1	6 5/8	-	-	4	351442	226.80	1.2531 - 1.3155	284.20	255.55	245.90	241.20	236.40	232.50
1.3750	1 3/8	.426	3/8	1	6 5/8	-	-	4	351444	238.70	1.3156 - 1.3780	295.85	267.20	257.60	252.85	248.10	244.15
1.4375	1 7/16	.426	3/8	1 1/4	7 7/8	-	-	4	351446	261.60	1.3781 - 1.4405	323.75	292.65	282.25	277.10	271.95	267.60
1.5000	1 1/2	.426	3/8	1 1/4	7 7/8	-	-	4	351448	302.40	1.4406 - 1.5030	367.00	334.60	323.90	318.70	313.20	308.65
1.5625	1 5/8	.489	7/16	1 1/4	8 1/8	-	-	4	351450	311.30	1.5031 - 1.5660	375.95	343.55	332.80	327.45	322.10	317.65
1.6250	1 5/8	.489	7/16	1 1/4	8 1/8	-	-	4	351452	317.80	1.5661 - 1.6280	382.50	350.15	339.50	334.10	328.70	324.25
1.6875	1 11/16	.489	7/16	1 1/4	8 1/8	-	-	4	351454	380.35	1.6281 - 1.6910	449.95	415.15	403.50	397.65	391.85	387.00
1.7500	1 3/4	.489	7/16	1 1/4	8 1/8	-	-	4	351456	380.35	1.6911 - 1.7530	449.95	415.15	403.50	397.65	391.85	387.00
1.8125	1 13/16	.489	7/16	1 1/2	8 1/8	-	-	4	351458	450.15	1.7531 - 1.8160	519.90	485.10	473.45	467.70	461.65	457.05
1.8750	1 7/8	.489	7/16	1 1/2	8 1/8	-	-	4	351460	450.15	1.8161 - 1.8780	519.90	485.10	473.45	467.70	461.65	457.05
1.9375	1 15/16	.489	7/16	1 1/2	8 1/8	-	-	4	351462	491.95	1.8781 - 1.9410	561.85	526.95	515.25	509.40	503.60	498.85
2.0000	2	.551	1/2	1 1/2	8 3/8	-	-	4	351464	491.95	1.9411 - 2.0030	561.85	526.95	515.25	509.40	503.60	498.85

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

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						
					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	15/64	3	3514060	3	3514060	\$128.60	6.000 - 6.426	\$174.05	\$143.55	\$133.45	\$128.60	\$123.40	\$119.35	\$113.30
6.5	.2559	.114	3/32	17/64	3	3514065	3	3514065	152.60	6.427 - 7.214	198.15	167.65	157.50	152.60	147.45	143.35	137.30
7.0	.2756	.114	3/32	17/64	3	3514070	3	3514070	152.60	-	-	-	-	-	-	-	-
7.5	.2953	.114	3/32	19/64	3	3514075	3	3514075	132.00	7.215 - 8.001	174.70	146.10	136.50	132.00	127.15	123.25	117.60
8.0	.3150	.114	3/32	19/64	3	3514080	3	3514080	132.00	-	-	-	-	-	-	-	-
8.5	.3346	.114	3/32	5/16	3	3514085	3	3514085	161.80	8.002 - 8.814	204.65	176.00	166.40	161.80	157.00	153.05	147.55
9.0	.3543	.182	5/32	5/16	4	3514090	3	3514090	137.30	8.815 - 9.601	176.75	150.30	141.55	137.30	132.85	129.15	124.00
9.5	.3740	.182	5/32	4 1/16	3	3514095	3	3514095	137.30	-	-	-	-	-	-	-	-
10.0	.3937	.182	5/32	3/8	4	3514100	3	3514100	152.55	9.602 - 10.389	192.00	165.65	156.85	152.55	148.10	144.55	139.45
10.5	.4134	.182	5/32	3/8	4	3514105	3	3514105	140.35	10.390 - 11.201	179.80	153.40	144.65	140.35	136.00	132.30	127.15
11.0	.4331	.182	5/32	3/8	4	3514110	3	3514110	140.35	-	-	-	-	-	-	-	-
11.5	.4528	.228	3/16	7/16	4	3514115	3	3514115	167.55	11.202 - 11.989	206.90	180.50	171.75	167.55	163.05	159.35	154.20
12.0	.4724	.228	3/16	7/16	4	3512120	3	3514120	153.90	11.990 - 12.776	193.30	166.95	158.15	153.90	149.40	145.80	140.50
12.5	.4921	.228	3/16	7/16	4	3512125	3	3514125	153.90	-	-	-	-	-	-	-	-
13.0	.5118	.228	3/16	1/2	4	3512130	3	3514130	171.95	12.777 - 13.564	211.25	184.90	176.05	171.95	167.40	163.80	158.50
13.5	.5315	.228	3/16	1/2	4	3512135	3	3514135	171.95	-	-	-	-	-	-	-	-
14.0	.5512	.228	3/16	1/2	4	3512140	3	3514140	157.90	13.565 - 14.376	197.30	170.95	162.20	157.90	153.40	149.75	144.65
14.5	.5709	.228	3/16	1/2	5	3512145	3	3514145	173.55	14.377 - 15.164	212.95	186.40	177.60	173.55	169.00	165.40	160.10
15.0	.5906	.228	3/16	1/2	5	3512150	3	3514150	173.55	-	-	-	-	-	-	-	-
15.5	.6102	.228	3/16	1/2	5	3512155	3	3514155	159.20	15.165 - 15.951	198.70	172.40	163.50	159.20	154.85	151.15	146.00
16.0	.6299	.228	3/16	1/2	5	3512160	3	3514160	182.50	15.952 - 16.739	221.90	195.55	186.70	182.50	178.05	174.45	169.30
16.5	.6496	.228	3/16	1/2	5	3512165	3	3514165	182.50	-	-	-	-	-	-	-	-
17.0	.6693	.228	3/16	1/2	5	3512170	3	3514170	167.65	16.740 - 17.551	207.05	180.75	171.95	167.65	163.25	159.50	154.35
17.5	.6890	.228	3/16	1/2	5	3512175	3	3514175	167.65	-	-	-	-	-	-	-	-
18.0	.7087	.290	1/4	1/2	5	3512180	3	3514180	186.40	17.552 - 18.339	225.95	199.50	190.70	186.40	181.95	178.35	173.10
18.5	.7283	.290	1/4	1/2	5	3512185	3	3514185	171.00	18.340 - 19.126	210.40	184.10	175.30	171.00	166.55	162.80	157.75
19.0	.7480	.290	1/4	1/2	5	3512190	3	3514190	171.00	-	-	-	-	-	-	-	-
19.5	.7677	.290	1/4	5/8	5	3512195	3	3514195	190.00	19.127 - 19.914	229.40	203.05	194.25	190.00	185.55	181.90	176.75
20.0	.7874	.290	1/4	5/8	5	3512200	3	3514200	174.25	19.915 - 20.726	213.60	187.35	178.45	174.25	169.70	166.20	160.95
20.5	.8071	.290	1/4	5/8	5	3512205	3	3514205	174.25	-	-	-	-	-	-	-	-
21.0	.8268	.290	1/4	3/4	5	3512210	3	3514210	200.30	20.727 - 21.514	239.70	213.30	204.60	200.30	195.70	192.10	186.95
21.5	.8465	.290	1/4	3/4	5	3512215	3	3514215	200.30	-	-	-	-	-	-	-	-
22.0	.8661	.290	1/4	3/4	5	3512220	3	3514220	183.75	21.515 - 22.301	223.15	196.75	187.85	183.75	179.20	175.60	170.45
22.5	.8858	.290	1/4	3/4	6	3512225	3	3514225	203.90	22.302 - 23.089	243.35	217.00	208.20	203.90	199.50	195.85	190.70
23.0	.9055	.290	1/4	3/4	6	3512230	3	3514230	203.90	-	-	-	-	-	-	-	-
23.5	.9252	.290	1/4	3/4	6	3512235	3	3514235	187.10	23.090 - 23.901	226.50	200.15	191.40	187.10	182.60	179.00	173.85
24.0	.9449	.353	5/16	3/4	6	3512240	3	3514240	209.35	23.902 - 24.689	248.75	222.45	213.55	209.35	204.90	201.35	196.00
24.5	.9646	.353	5/16	3/4	6	3512245	3	3514245	209.35	-	-	-	-	-	-	-	-
25.0	.9843	.353	5/16	3/4	6	3512250	3	3514250	191.85	24.690 - 25.476	231.40	204.95	196.20	191.85	187.50	183.95	178.75
25.5	1.0039	.353	5/16	3/4	6	3512255	3	3514255	193.70	25.477 - 27.076	233.15	206.80	198.05	193.70	189.35	185.80	180.50
26.0	1.0236	.353	5/16	3/4	6	3512260	3	3514260	193.70	-	-	-	-	-	-	-	-
27.0	1.0630	.353	5/16	3/4	6	3512270	3	3514270	193.70	-	-	-	-	-	-	-	-
28.0	1.1024	.353	5/16	1	6	3512280	3	3514280	198.35	27.077 - 28.651	237.75	211.25	202.45	198.35	193.70	190.15	184.95
29.0	1.1417	.353	5/16	1	6	3512290	3	3514290	206.35	28.652 - 30.239	245.65	219.35	210.50	206.35	201.90	198.35	193.15
30.0	1.1811	.353	5/16	1	6	3512300	3	3514300	206.35	-	-	-	-	-	-	-	-
31.0	1.2205	.426	3/8	1	6	-	4	3514310	229.25	30.240 - 31.826	272.05	243.35	233.85	229.25	224.45	220.45	214.95
32.0	1.2598	.426	3/8	1	6	-	4	3514320	245.90	31.827 - 33.414	288.75	260.05	250.55	245.90	241.15	237.25	231.55
33.0	1.2992	.426	3/8	1	6	-	4	3514330	245.90	-	-	-	-	-	-	-	-
34.0	1.3386	.426	3/8	1	6	-	4	3514340	257.60	33.415 - 35.001	300.40	271.90	262.15	257.60	252.80	248.80	243.20
35.0	1.3780	.426	3/8	1	6	-	4	3514350	257.60	-	-	-	-	-	-	-	-
36.0	1.4173	.426	3/8	1 1/4	7	-	4	3514360	282.25	35.002 - 36.589	328.75	297.80	287.20	282.25	276.95	272.70	266.65
37.0	1.4567	.426	3/8	1 1/4	7	-	4	3514370	312.10	36.590 - 38.176	358.65	327.60	317.25	312.10	307.00	302.60	296.55
38.0	1.4961	.426	3/8	1 1/4	7	-	4	3514380	312.10	-	-	-	-	-	-	-	-

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

Made in U.S.A.

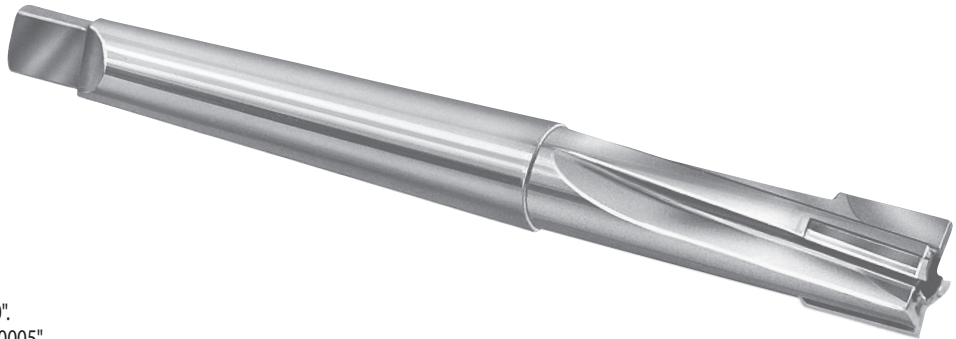
CARBIDE TIPPED COUNTERBORES FOR NON-FERROUS & CAST IRON

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	\$131.20	.2381 - .2530	\$194.60	\$162.95	\$152.40	\$147.15	\$141.80	\$137.50
.2812	9/32	.114	3/32	1	3 13/16	-	-	3	351609	158.00	.2531 - .2840	221.15	189.40	178.90	173.75	168.55	164.05
.3125	5/16	.114	3/32	1	3 13/16	-	-	3	351610	134.90	.2841 - .3150	194.30	164.55	154.75	149.85	144.80	140.75
.3438	11/32	.114	3/32	1	3 13/16	-	-	3	351611	166.25	.3151 - .3470	225.65	195.85	185.95	181.10	176.05	172.00
.3750	3/8	.182	5/32	1	4 1/16	-	-	3	351612	139.25	.3471 - .3780	193.90	166.65	157.45	153.00	148.40	144.70
.4062	13/32	.182	5/32	1	4 1/16	-	-	3	351613	157.30	.3781 - .4090	212.10	184.65	175.60	171.00	166.50	162.65
.4375	7/16	.182	5/32	1	4 1/16	-	-	3	351614	143.05	.4091 - .4410	197.70	170.40	161.20	156.85	152.15	148.40
.4688	15/32	.228	3/16	1	4 5/16	-	-	3	351615	173.70	.4411 - .4720	228.40	201.00	191.85	187.40	182.80	179.05
.5000	1/2	.228	3/16	1	4 5/16	4	351816	3	351616	157.90	.4721 - .5030	212.80	185.25	176.05	171.75	166.95	163.25
.5312	17/32	.228	3/16	1	4 5/16	4	351817	3	351617	176.85	.5031 - .5340	231.55	204.20	195.00	190.55	185.95	182.20
.5625	9/16	.228	3/16	1	4 5/16	4	351818	3	351618	160.80	.5341 - .5660	215.60	188.20	179.15	174.55	170.00	166.25
.5938	19/32	.228	3/16	2	5 1/8	4	351819	3	351619	181.65	.5661 - .5970	236.55	209.10	200.00	195.45	190.85	187.05
.6250	5/8	.228	3/16	2	5 1/8	4	351820	3	351620	165.10	.5971 - .6280	219.85	192.55	183.35	179.00	174.15	170.45
.6562	21/32	.228	3/16	2	5 1/8	4	351821	3	351621	191.80	.6281 - .6590	246.60	219.20	210.00	205.65	200.90	197.20
.6875	11/16	.228	3/16	2	5 1/8	4	351822	3	351622	174.15	.6591 - .6910	229.10	201.60	192.55	187.95	183.35	179.60
.7188	23/32	.290	1/4	2	5 3/8	4	351823	3	351623	194.90	.6911 - .7220	249.75	222.35	213.25	208.80	204.10	200.45
.7500	3/4	.290	1/4	2	5 3/8	4	351824	3	351624	177.20	.7221 - .7530	231.95	204.60	195.45	191.00	186.25	182.45
.7812	25/32	.290	1/4	2	5 3/8	4	351825	3	351625	198.30	.7531 - .7840	252.95	225.65	216.45	211.95	207.35	203.65
.8125	13/16	.290	1/4	2	5 3/8	4	351826	3	351626	180.30	.7841 - .8160	235.00	207.70	198.60	193.90	189.40	185.65
.8438	27/32	.290	1/4	2	5 3/8	4	351827	3	351627	208.40	.8161 - .8470	263.30	235.95	226.80	222.30	217.70	213.95
.8750	7/8	.290	1/4	2	5 3/8	4	351828	3	351628	189.50	.8471 - .8780	244.30	216.85	207.80	203.20	198.70	194.85
.9062	29/32	.290	1/4	3	6 1/8	4	351829	3	351629	214.15	.8781 - .9090	268.90	241.45	232.50	227.80	223.30	219.55
.9375	15/16	.290	1/4	3	6 1/8	4	351830	3	351630	194.70	.9091 - .9410	249.40	222.05	212.95	208.35	203.90	200.05
.9688	31/32	.353	5/16	3	6 3/8	4	351831	3	351631	219.15	.9411 - .9720	273.85	246.50	237.40	232.85	228.10	224.35
1.0000	1	.353	5/16	3	6 3/8	4	351832	3	351632	206.75	.9721 - 1.0030	263.60	235.15	225.65	221.05	216.10	212.25
1.0625	1 1/16	.353	5/16	3	6 3/8	4	351834	3	351634	209.40	1.0031 - 1.0660	266.15	237.75	228.35	223.65	218.75	214.95
1.1250	1 1/8	.353	5/16	3	6 3/8	4	351836	3	351636	216.00	1.0661 - 1.1280	272.95	244.60	234.95	230.35	225.50	221.60
1.1875	1 3/16	.353	5/16	3	6 3/8	4	351838	3	351638	223.35	1.1281 - 1.1905	280.40	251.85	242.30	237.70	232.85	228.95
1.2500	1 1/4	.426	3/8	3	6 5/8	-	-	4	351640	248.35	1.1906 - 1.2530	309.95	279.15	268.90	263.85	258.60	254.30
1.3125	1 5/16	.426	3/8	3	6 5/8	-	-	4	351642	266.15	1.2531 - 1.3155	328.00	296.95	286.80	281.60	276.55	272.25
1.3750	1 3/8	.426	3/8	3	6 5/8	-	-	4	351644	278.95	1.3156 - 1.3780	340.55	309.75	299.45	294.35	289.30	284.90
1.4375	1 7/16	.426	3/8	4	7 7/8	-	-	4	351646	310.30	1.3781 - 1.4405	377.35	343.85	332.50	327.05	321.45	316.80
1.5000	1 1/2	.426	3/8	4	7 7/8	-	-	4	351648	344.00	1.4406 - 1.5030	411.05	377.60	366.40	360.85	355.25	350.60
1.5625	1 9/16	.489	7/16	4	8 1/8	-	-	4	351650	369.60	1.5031 - 1.5660	439.80	404.80	393.20	387.25	381.40	376.65
1.6250	1 5/8	.489	7/16	4	8 1/8	-	-	4	351652	376.25	1.5661 - 1.6280	446.40	411.45	399.75	393.90	387.95	383.25
1.6875	1 11/16	.489	7/16	4	8 1/8	-	-	4	351654	450.15	1.6281 - 1.6910	526.05	488.20	475.60	469.35	462.80	457.70
1.7500	1 3/4	.489	7/16	4	8 1/8	-	-	4	351656	450.15	1.6911 - 1.7530	526.05	488.20	475.60	469.35	462.80	457.70
1.8125	1 13/16	.489	7/16	4	8 1/8	-	-	4	351658	532.85	1.7531 - 1.8160	608.60	570.80	558.10	551.80	545.45	540.15
1.8750	1 7/8	.489	7/16	4	8 1/8	-	-	4	351660	532.85	1.8161 - 1.8780	608.60	570.80	558.10	551.80	545.45	540.15
1.9375	1 15/16	.489	7/16	4	8 1/8	-	-	4	351662	582.15	1.8781 - 1.9410	658.05	620.10	607.35	601.25	594.90	589.60
2.0000	2	.551	1/2	4	8 3/8	-	-	4	351664	582.15	1.9411 - 2.0030	658.05	620.10	607.35	601.25	594.90	589.60

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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						
					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	\$152.40	6.000 - 6.426	\$199.65	\$167.95	\$157.45	\$152.40	\$147.10	\$142.65	\$136.50
6.5	.2559	.114	3/32	1	3 13/16	-	3	3516065	178.90	6.427 - 7.214	226.20	194.60	183.95	178.90	173.70	169.30	163.10
7.0	.2756	.114	3/32	1	3 13/16	-	3	3516070	178.90	-	-	-	-	-	-	-	-
7.5	.2953	.114	3/32	1	3 13/16	-	3	3516075	154.75	7.215 - 8.001	199.05	169.40	159.35	154.75	149.70	145.55	139.75
8.0	.3150	.114	3/32	1	3 13/16	-	3	3516080	154.75	-	-	-	-	-	-	-	-
8.5	.3346	.114	3/32	1	3 13/16	-	3	3516085	185.95	8.002 - 8.814	230.40	200.65	190.85	185.95	181.05	177.00	171.00
9.0	.3543	.182	5/32	1	4 1/16	-	3	3516090	157.45	8.815 - 9.601	198.45	171.00	161.90	157.45	152.85	149.10	143.70
9.5	.3740	.182	5/32	1	4 1/16	-	3	3516095	157.45	-	-	-	-	-	-	-	-
10.0	.3937	.182	5/32	1	4 1/16	-	3	3516100	175.60	9.602 - 10.389	216.45	189.15	180.05	175.60	170.85	167.00	161.80
10.5	.4134	.182	5/32	1	4 1/16	-	3	3516105	161.20	10.390 - 11.201	202.20	174.75	165.70	161.20	156.60	152.85	147.40
11.0	.4331	.182	5/32	1	4 1/16	-	3	3516110	161.20	-	-	-	-	-	-	-	-
11.5	.4528	.228	3/16	1	4 3/16	-	3	3516115	191.85	11.202 - 11.989	232.85	205.50	196.40	191.85	187.35	183.40	178.00
12.0	.4724	.228	3/16	1	4 3/16	4	3518120	3	3516120	176.05	11.990 - 12.776	217.25	189.65	180.50	176.05	171.70	167.80
12.5	.4921	.228	3/16	1	4 3/16	4	3518125	3	3516125	176.05	-	-	-	-	-	-	-
13.0	.5118	.228	3/16	1	4 3/16	4	3518130	3	3516130	195.00	12.777 - 13.564	236.00	208.70	199.45	195.00	190.50	186.70
13.5	.5315	.228	3/16	1	4 3/16	4	3518135	3	3516135	195.00	-	-	-	-	-	-	-
14.0	.5512	.228	3/16	1	4 3/16	4	3518140	3	3516140	179.15	13.565 - 14.376	220.05	192.70	183.40	179.15	174.30	170.60
14.5	.5709	.228	3/16	2	5 1/8	4	3518145	3	3516145	200.00	14.377 - 15.164	241.00	213.40	204.25	200.00	195.40	191.45
15.0	.5906	.228	3/16	2	5 1/8	4	3518150	3	3516150	200.00	-	-	-	-	-	-	-
15.5	.6102	.228	3/16	2	5 1/8	4	3518155	3	3516155	183.35	15.165 - 15.951	224.30	196.90	187.70	183.35	178.80	175.05
16.0	.6299	.228	3/16	2	5 1/8	4	3518160	3	3516160	210.00	15.952 - 16.739	251.05	223.50	214.40	210.00	205.50	201.60
16.5	.6496	.228	3/16	2	5 1/8	4	3518165	3	3516165	210.00	-	-	-	-	-	-	-
17.0	.6693	.228	3/16	2	5 1/8	4	3518170	3	3516170	192.55	16.740 - 17.551	233.40	206.05	196.90	192.55	187.85	184.10
17.5	.6890	.228	3/16	2	5 1/8	4	3518175	3	3516175	192.55	-	-	-	-	-	-	-
18.0	.7087	.290	1/4	2	5 3/8	4	3518180	3	3516180	213.25	17.552 - 18.339	254.15	226.80	217.70	213.25	208.70	204.80
18.5	.7283	.290	1/4	2	5 3/8	4	3518185	3	3516185	195.45	18.340 - 19.126	236.40	208.95	199.75	195.45	190.85	187.05
19.0	.7480	.290	1/4	2	5 3/8	4	3518190	3	3516190	195.45	-	-	-	-	-	-	-
19.5	.7677	.290	1/4	2	5 3/8	4	3518195	3	3516195	216.45	19.127 - 19.914	257.45	229.95	221.00	216.45	211.85	208.10
20.0	.7874	.290	1/4	2	5 3/8	4	3518200	3	3516200	198.60	19.915 - 20.726	239.45	212.10	202.90	198.60	193.85	190.15
20.5	.8071	.290	1/4	2	5 3/8	4	3518205	3	3516205	198.60	-	-	-	-	-	-	-
21.0	.8268	.290	1/4	2	5 3/8	4	3518210	3	3516210	226.80	20.727 - 21.514	267.80	240.30	231.20	226.80	222.20	218.40
21.5	.8465	.290	1/4	2	5 3/8	4	3518215	3	3516215	226.80	-	-	-	-	-	-	-
22.0	.8661	.290	1/4	2	5 3/8	4	3518220	3	3516220	207.80	21.515 - 22.301	248.65	221.35	212.25	207.80	203.05	199.35
22.5	.8858	.290	1/4	3	6 1/8	4	3518225	3	3516225	232.50	22.302 - 23.089	273.35	245.95	236.75	232.50	227.75	223.95
23.0	.9055	.290	1/4	3	6 1/8	4	3518230	3	3516230	232.50	-	-	-	-	-	-	-
23.5	.9252	.290	1/4	3	6 1/8	4	3518235	3	3516235	212.95	23.090 - 23.901	253.85	226.40	217.40	212.95	208.25	204.60
24.0	.9449	.353	5/16	3	6 3/8	4	3518240	3	3516240	237.40	23.902 - 24.689	278.30	250.80	241.70	237.40	232.80	228.95
24.5	.9646	.353	5/16	3	6 3/8	4	3518245	3	3516245	237.40	-	-	-	-	-	-	-
25.0	.9843	.353	5/16	3	6 3/8	4	3518250	3	3516250	217.45	24.690 - 25.476	258.40	231.00	221.85	217.45	212.85	209.10
25.5	1.0039	.353	5/16	3	6 3/8	4	3518255	3	3516255	228.35	25.477 - 27.076	270.80	242.30	232.85	228.35	223.50	219.60
26.0	1.0236	.353	5/16	3	6 3/8	4	3518260	3	3516260	228.35	-	-	-	-	-	-	-
27.0	1.0630	.353	5/16	3	6 3/8	4	3518270	3	3516270	228.35	-	-	-	-	-	-	-
28.0	1.1024	.353	5/16	3	6 3/8	4	3518280	3	3516280	234.95	27.077 - 28.651	277.45	249.05	239.60	234.95	230.20	226.35
29.0	1.1417	.353	5/16	3	6 3/8	4	3518290	3	3516290	242.30	28.652 - 30.239	284.85	256.45	246.95	242.30	237.60	233.70
30.0	1.1811	.353	5/16	3	6 3/8	4	3518300	3	3516300	242.30	-	-	-	-	-	-	-
31.0	1.2205	.426	3/8	3	6 5/8	-	4	3516310	268.90	30.240 - 31.826	314.95	284.15	273.85	268.90	263.75	259.55	253.35
32.0	1.2598	.426	3/8	3	6 5/8	-	4	3516320	286.80	31.827 - 33.414	332.95	302.10	291.75	286.80	281.55	277.40	271.25
33.0	1.2992	.426	3/8	3	6 5/8	-	4	3516330	286.80	-	-	-	-	-	-	-	-
34.0	1.3386	.426	3/8	3	6 5/8	-	4	3516340	299.45	33.415 - 35.001	345.70	314.70	304.40	299.45	294.25	290.10	283.90
35.0	1.3780	.426	3/8	3	6 5/8	-	4	3516350	299.45	-	-	-	-	-	-	-	-
36.0	1.4173	.426	3/8	4	7 7/8	-	4	3516360	332.50	35.002 - 36.589	382.70	349.15	338.05	332.50	327.00	322.45	315.70
37.0	1.4567	.426	3/8	4	7 7/8	-	4	3516370	366.40	36.590 - 38.176	416.45	382.95	371.70	366.40	360.80	356.10	349.60
38.0	1.4961	.426	3/8	4	7 7/8	-	4	3516380	366.40	-	-	-	-	-	-	-	-

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

Made in U.S.A.

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	\$131.20	.2381 - .2530	\$194.60	\$162.95	\$152.40	\$147.15	\$141.80	\$137.50
.2812	9/32	.114	3/32	3	3 13/16	17/64	351009	1	351109	158.00	.2531 - .2840	221.15	189.40	178.90	173.75	168.55	164.05
.3125	5/16	.114	3/32	3	3 13/16	19/64	351010	1	351110	134.90	.2841 - .3150	194.30	164.55	154.75	149.85	144.80	140.75
.3438	11/32	.114	3/32	3	3 13/16	5/16	351011	1	351111	166.25	.3151 - .3470	225.65	195.85	185.95	181.10	176.05	172.00
.3750	3/8	.182	5/32	3	4 1/16	5/16	351012	1	351112	139.25	.3471 - .3780	193.90	166.65	157.45	153.00	148.40	144.70
.4062	13/32	.182	5/32	3	4 1/16	3/8	351013	1	351113	157.30	.3781 - .4090	212.10	184.65	175.60	171.00	166.50	162.65
.4375	7/16	.182	5/32	3	4 1/16	3/8	351014	1	351114	143.05	.4091 - .4410	197.70	170.40	161.20	156.85	152.15	148.40
.4688	15/32	.228	3/16	3	4 5/16	7/16	351015	1	351115	173.70	.4411 - .4720	228.40	201.00	191.85	187.40	182.80	179.05
.5000	1/2	.228	3/16	3	4 5/16	7/16	351016	1	351116	157.90	.4721 - .5030	212.80	185.25	176.05	171.75	166.95	163.25
.5312	17/32	.228	3/16	3	4 5/16	1/2	351017	1	351117	170.45	.5031 - .5340	223.20	196.85	188.00	183.75	179.20	175.60
.5625	9/16	.228	3/16	3	4 5/16	1/2	351018	1	351118	155.00	.5341 - .5660	207.80	181.30	172.60	168.10	163.80	160.10
.5938	19/32	.228	3/16	3	5 1/8	1/2	351019	2	351119	175.05	.5661 - .5970	227.90	201.50	192.70	188.35	183.95	180.20
.6250	5/8	.228	3/16	3	5 1/8	1/2	351020	2	351120	159.15	.5971 - .6280	211.95	185.55	176.75	172.45	167.85	164.25
.6562	21/32	.228	3/16	3	5 1/8	1/2	351021	2	351121	184.80	.6281 - .6590	237.60	211.15	202.35	198.05	193.55	190.00
.6875	11/16	.228	3/16	3	5 1/8	1/2	351022	2	351122	167.85	.6591 - .6910	220.75	194.30	185.55	181.10	176.75	173.00
.7188	23/32	.290	1/4	3	5 3/8	1/2	351023	2	351123	187.85	.6911 - .7220	240.75	214.30	205.60	201.20	196.75	193.15
.7500	3/4	.290	1/4	3	5 3/8	1/2	351024	2	351124	170.80	.7221 - .7530	223.50	197.05	188.35	184.05	179.45	175.85
.7812	25/32	.290	1/4	3	5 3/8	5/8	351025	2	351125	191.10	.7531 - .7840	243.80	217.45	208.65	204.20	199.85	196.20
.8125	13/16	.290	1/4	3	5 3/8	5/8	351026	2	351126	173.75	.7841 - .8160	226.50	200.15	191.40	186.95	182.50	178.90
.8438	27/32	.290	1/4	3	5 3/8	3/4	351027	2	351127	200.80	.8161 - .8470	253.80	227.35	218.55	214.15	209.80	206.10
.8750	7/8	.290	1/4	3	5 3/8	3/4	351028	2	351128	182.60	.8471 - .8780	235.45	208.95	200.30	195.85	191.45	187.70
.9062	29/32	.290	1/4	3	6 1/8	3/4	351029	3	351129	206.35	.8781 - .9090	259.10	232.70	223.95	219.55	215.15	211.55
.9375	15/16	.290	1/4	3	6 1/8	3/4	351030	3	351130	187.55	.9091 - .9410	240.30	213.95	205.10	200.75	196.45	192.75
.9688	31/32	.353	5/16	3	6 3/8	3/4	351031	3	351131	211.10	.9411 - .9720	263.85	237.55	228.70	224.35	219.75	216.25
1.0000	1	.353	5/16	3	6 3/8	3/4	351032	3	351132	199.15	.9721 - 1.0030	254.10	226.65	217.45	213.00	208.20	204.60
1.0625	1 1/16	.353	5/16	3	6 3/8	3/4	351034	3	351134	201.80	1.0031 - 1.0660	256.45	229.10	220.00	215.45	210.85	207.10
1.1250	1 1/8	.353	5/16	3	6 3/8	1	351036	3	351136	208.10	1.0661 - 1.1280	263.00	235.70	226.40	221.90	217.30	213.55
1.1875	1 3/16	.353	5/16	3	6 3/8	1	351038	3	351138	215.25	1.1281 - 1.1905	270.20	242.75	233.55	229.05	224.35	220.70
1.2500	1 1/4	.426	3/8	4	6 5/8	1	351040	3	351140	239.30	1.1906 - 1.2530	298.70	268.95	259.10	254.25	249.20	245.15
1.3125	1 5/16	.426	3/8	4	6 5/8	1	351042	3	351142	256.45	1.2531 - 1.3155	316.05	286.20	276.40	271.40	266.50	262.35
1.3750	1 3/8	.426	3/8	4	6 5/8	1	351044	3	351144	268.80	1.3156 - 1.3780	328.15	298.50	288.60	283.70	278.70	274.55
1.4375	1 7/16	.426	3/8	4	7 7/8	1 1/4	351046	4	351146	298.95	1.3781 - 1.4405	363.65	331.35	320.45	315.25	309.75	305.30
1.5000	1 1/2	.426	3/8	4	7 7/8	1 1/4	351048	4	351148	344.00	1.4406 - 1.5030	411.05	377.60	366.40	360.85	355.25	350.60
1.5625	1 9/16	.489	7/16	4	8 1/8	1 1/4	351050	4	351150	369.60	1.5031 - 1.5660	439.80	404.80	393.20	387.25	381.40	376.65
1.6250	1 5/8	.489	7/16	4	8 1/8	1 1/4	351052	4	351152	376.25	1.5661 - 1.6280	446.40	411.45	399.75	393.90	387.95	383.25
1.6875	1 11/16	.489	7/16	4	8 1/8	1 1/4	351054	4	351154	450.15	1.6281 - 1.6910	526.05	488.20	475.60	469.35	462.80	457.70
1.7500	1 3/4	.489	7/16	4	8 1/8	1 1/4	351056	4	351156	450.15	1.6911 - 1.7530	526.05	488.20	475.60	469.35	462.80	457.70
1.8125	1 13/16	.489	7/16	4	8 1/8	1 1/2	351058	4	351158	532.85	1.7531 - 1.8160	608.60	570.80	558.10	551.80	545.45	540.15
1.8750	1 7/8	.489	7/16	4	8 1/8	1 1/2	351060	4	351160	532.85	1.8161 - 1.8780	608.60	570.80	558.10	551.80	545.45	540.15
1.9375	1 15/16	.489	7/16	4	8 1/8	1 1/2	351062	4	351162	582.15	1.8781 - 1.9410	658.05	620.10	607.35	601.25	594.90	589.60
2.0000	2	.551	1/2	4	8 3/8	1 1/2	351064	4	351164	582.15	1.9411 - 2.0030	658.05	620.10	607.35	601.25	594.90	589.60

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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	\$152.40	6.000 - 6.426	\$199.65	\$167.95	\$157.45	\$152.40	\$147.10	\$142.65	\$136.50
6.5	.2559	.114	3/32	3	3 13/16	17/64	3510065	1	3511065	178.90	6.427 - 7.214	226.20	194.60	183.95	178.90	173.70	169.30	163.10
7.0	.2756	.114	3/32	3	3 13/16	17/64	3510070	1	3511070	178.90	-	-	-	-	-	-	-	-
7.5	.2953	.114	3/32	3	3 13/16	19/64	3510075	1	3511075	154.75	7.215 - 8.001	199.05	169.40	159.35	154.75	149.70	145.55	139.75
8.0	.3150	.114	3/32	3	3 13/16	19/64	3510080	1	3511080	154.75	-	-	-	-	-	-	-	-
8.5	.3346	.114	3/32	3	3 13/16	5/16	3510085	1	3511085	185.95	8.002 - 8.814	230.40	200.65	190.85	185.95	181.05	177.00	171.00
9.0	.3543	.182	5/32	3	4 1/16	5/16	3510090	1	3511090	157.45	8.815 - 9.601	198.45	171.00	161.90	157.45	152.85	149.10	143.70
9.5	.3740	.182	5/32	3	4 1/16	5/16	3510095	1	3511095	157.45	-	-	-	-	-	-	-	-
10.0	.3937	.182	5/32	3	4 1/16	3/8	3510100	1	3511100	175.60	9.602 - 10.389	216.45	189.15	180.05	175.60	170.85	167.00	161.80
10.5	.4134	.182	5/32	3	4 1/16	3/8	3510105	1	3511105	161.20	10.390 - 11.201	202.20	174.75	165.70	161.20	156.60	152.85	147.40
11.0	.4331	.182	5/32	3	4 1/16	3/8	3510110	1	3511110	161.20	-	-	-	-	-	-	-	-
11.5	.4528	.228	3/16	3	4 3/16	7/16	3510115	1	3511115	191.85	11.202 - 11.989	232.85	205.50	196.40	191.85	187.35	183.40	178.00
12.0	.4724	.228	3/16	3	4 3/16	7/16	3510120	1	3511120	176.05	11.990 - 12.776	217.25	189.65	180.50	176.05	171.70	167.80	162.40
12.5	.4921	.228	3/16	3	4 3/16	7/16	3510125	1	3511125	176.05	-	-	-	-	-	-	-	-
13.0	.5118	.228	3/16	3	4 3/16	1/2	3510130	1	3511130	188.00	12.777 - 13.564	227.50	201.15	192.15	188.00	183.60	179.95	174.70
13.5	.5315	.228	3/16	3	4 3/16	1/2	3510135	1	3511135	188.00	-	-	-	-	-	-	-	-
14.0	.5512	.228	3/16	3	4 3/16	1/2	3510140	1	3511140	172.60	13.565 - 14.376	212.00	185.65	176.85	172.60	168.00	164.40	159.30
14.5	.5709	.228	3/16	3	5 1/8	1/2	3510145	2	3511145	192.70	14.377 - 15.164	232.15	205.75	196.90	192.70	188.25	184.50	179.35
15.0	.5906	.228	3/16	3	5 1/8	1/2	3510150	2	3511150	192.70	-	-	-	-	-	-	-	-
15.5	.6102	.228	3/16	3	5 1/8	1/2	3510155	2	3511155	176.75	15.165 - 15.951	216.15	189.80	180.95	176.75	172.40	168.70	163.50
16.0	.6299	.228	3/16	3	5 1/8	1/2	3510160	2	3511160	176.75	15.952 - 16.739	216.15	189.80	180.95	176.75	172.40	168.70	163.50
16.5	.6496	.228	3/16	3	5 1/8	1/2	3510165	2	3511165	202.35	-	-	-	-	-	-	-	-
17.0	.6693	.228	3/16	3	5 1/8	1/2	3510170	2	3511170	185.55	16.740 - 17.551	224.90	198.60	189.80	185.55	181.05	177.35	172.40
17.5	.6890	.228	3/16	3	5 1/8	1/2	3510175	2	3511175	185.55	-	-	-	-	-	-	-	-
18.0	.7087	.290	1/4	3	5 3/8	1/2	3510180	2	3511180	205.60	17.552 - 18.339	244.90	218.55	209.80	205.60	201.15	197.35	192.15
18.5	.7283	.290	1/4	3	5 3/8	1/2	3510185	2	3511185	188.35	18.340 - 19.126	227.80	201.45	192.55	188.35	183.95	180.20	175.05
19.0	.7480	.290	1/4	3	5 3/8	1/2	3510190	2	3511190	188.35	-	-	-	-	-	-	-	-
19.5	.7677	.290	1/4	3	5 3/8	5/8	3510195	2	3511195	208.65	19.127 - 19.914	248.10	221.50	212.95	208.65	204.10	200.50	195.40
20.0	.7874	.290	1/4	3	5 3/8	5/8	3510200	2	3511200	191.40	19.915 - 20.726	230.80	204.45	195.55	191.40	186.85	183.20	178.05
20.5	.8071	.290	1/4	3	5 3/8	5/8	3510205	2	3511205	191.40	-	-	-	-	-	-	-	-
21.0	.8268	.290	1/4	3	5 3/8	3/4	3510210	2	3511210	218.55	20.727 - 21.514	258.00	231.55	222.75	218.55	214.10	210.40	205.20
21.5	.8465	.290	1/4	3	5 3/8	3/4	3510215	2	3511215	218.55	-	-	-	-	-	-	-	-
22.0	.8661	.290	1/4	3	5 3/8	3/4	3510220	2	3511220	200.30	21.515 - 22.301	239.70	213.30	204.60	200.30	195.70	192.10	186.95
22.5	.8858	.290	1/4	3	6 1/8	3/4	3510225	3	3511225	223.95	22.302 - 23.089	263.45	237.00	228.10	223.95	219.45	215.90	210.65
23.0	.9055	.290	1/4	3	6 1/8	3/4	3510230	3	3511230	223.95	-	-	-	-	-	-	-	-
23.5	.9252	.290	1/4	3	6 1/8	3/4	3510235	3	3511235	205.10	23.090 - 23.901	244.60	218.15	209.40	205.10	200.65	197.05	191.85
24.0	.9449	.353	5/16	3	6 3/8	3/4	3510240	3	3511240	228.70	23.902 - 24.689	268.10	241.75	232.85	228.70	224.30	220.70	215.40
24.5	.9646	.353	5/16	3	6 3/8	3/4	3510245	3	3511245	228.70	-	-	-	-	-	-	-	-
25.0	.9843	.353	5/16	3	6 3/8	3/4	3510250	3	3511250	209.50	24.690 - 25.476	248.95	222.60	213.80	209.50	205.05	201.50	196.40
25.5	1.0039	.353	5/16	3	6 3/8	3/4	3510255	3	3511255	220.00	25.477 - 27.076	260.90	233.55	224.35	220.00	215.40	211.70	206.20
26.0	1.0236	.353	5/16	3	6 3/8	3/4	3510260	3	3511260	220.00	-	-	-	-	-	-	-	-
27.0	1.0630	.353	5/16	3	6 3/8	3/4	3510270	3	3511270	220.00	-	-	-	-	-	-	-	-
28.0	1.1024	.353	5/16	3	6 3/8	1	3510280	3	3511280	226.40	27.077 - 28.651	267.35	240.00	230.85	226.40	221.85	218.05	212.70
29.0	1.1417	.353	5/16	3	6 3/8	1	3510290	3	3511290	233.55	28.652 - 30.239	274.50	247.10	238.00	233.55	228.95	225.20	219.75
30.0	1.1811	.353	5/16	3	6 3/8	1	3510300	3	3511300	233.55	-	-	-	-	-	-	-	-
31.0	1.2205	.426	3/8	4	6 5/8	1	3510310	3	3511310	259.10	30.240 - 31.826	303.55	273.80	263.85	259.10	254.15	250.10	244.15
32.0	1.2598	.426	3/8	4	6 5/8	1	3510320	3	3511320	276.40	31.827 - 33.414	320.80	291.05	281.15	276.40	271.35	267.30	261.45
33.0	1.2992	.426	3/8	4	6 5/8	1	3510330	3	3511330	276.40	-	-	-	-	-	-	-	-
34.0	1.3386	.426	3/8	4	6 5/8	1	3510340	3	3511340	288.60	33.415 - 35.001	333.10	303.25	293.40	288.60	283.60	279.55	273.55
35.0	1.3780	.426	3/8	4	6 5/8	1	3510350	3	3511350	288.60	-	-	-	-	-	-	-	-
36.0	1.4173	.426	3/8	4	7 7/8	1 1/4	3510360	4	3511360	320.45	35.002 - 36.589	368.75	336.50	325.75	320.45	315.05	310.65	304.20
37.0	1.4567	.426	3/8	4	7 7/8	1 1/4	3510370	4	3511370	353.05	36.590 - 38.176	401.35	369.00	358.20	353.05	347.70	343.25	336.90
38.0	1.4961	.426	3/8	4	7 7/8	1 1/4	3510380	4	3511380	353.05	-	-	-	-	-	-	-	-

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

Made in U.S.A.

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	FRACTION									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	\$87.25	.2381 - .2530	\$148.30	\$117.95	\$107.60	\$102.80	\$97.60	\$93.30
.2812	9/32	.125	3/32	3	1/4	2 3/8	352209	87.40	.2531 - .2840	148.45	118.05	107.75	102.85	97.65	93.45
.3125	5/16	.125	3/32	3	1/4	2 3/8	352210	89.70	.2841 - .3150	150.85	120.10	109.90	104.85	99.80	95.65
.3438	11/32	.125	3/32	3	1/4	2 3/8	352211	91.45	.3151 - .3470	152.60	121.85	111.75	106.75	101.65	97.50
.3750	3/8	.125	3/32	3	1/4	2 3/8	352212	91.65	.3471 - .3780	152.75	122.20	112.15	107.00	101.80	97.65
.4062	13/32	.156	1/8	3	1/4	2 3/4	352213	104.25	.3781 - .4090	165.20	134.90	124.55	119.65	114.35	110.30
.4375	7/16	.156	1/8	3	1/4	2 3/4	352214	112.35	.4091 - .4410	173.45	142.90	132.75	127.60	122.65	118.35
.4688	15/32	.156	1/8	3	1/4	2 3/4	352215	114.20	.4411 - .4720	175.40	144.80	134.60	129.70	124.50	120.25
.5000	1/2	.156	1/8	3	1/4	2 3/4	352216	115.65	.4721 - .5030	176.85	146.25	136.00	130.90	125.80	121.55
.5312	17/32	.156	1/8	3	1/4	2 3/4	352217	116.30	.5031 - .5340	177.30	146.70	136.60	131.55	126.30	122.20
.5625	9/16	.156	1/8	3	1/4	2 3/4	352218	116.75	.5341 - .5660	177.85	147.30	137.05	132.00	127.00	122.70
.5938	19/32	.156	1/8	3	1/4	2 3/4	352219	117.35	.5661 - .5970	178.60	148.00	137.90	132.75	127.55	123.35
.6250	5/8	.156	1/8	3	1/4	2 3/4	352220	118.65	.5971 - .6280	179.75	149.30	139.05	134.15	128.95	124.65
.6562	21/32	.219	3/16	3	1/4	2 3/4	352221	131.85	.6281 - .6590	192.95	162.35	152.30	147.30	142.10	137.95
.6875	11/16	.219	3/16	3	1/4	2 3/4	352222	138.50	.6591 - .6910	199.60	169.10	158.80	153.85	148.55	144.50
.7188	23/32	.219	3/16	3	1/4	2 3/4	352223	143.20	.6911 - .7220	204.10	173.75	163.40	158.60	153.30	149.25
.7500	3/4	.219	3/16	3	1/4	2 3/4	352224	144.95	.7221 - .7530	206.05	175.55	165.20	160.35	155.20	151.00
.7812	25/32	.219	3/16	3	1/4	2 3/4	352225	145.55	.7531 - .7840	206.75	176.15	165.95	160.80	155.75	151.55
.8125	13/16	.219	3/16	3	1/4	2 3/4	352226	146.80	.7841 - .8160	208.10	177.35	167.25	162.20	157.05	152.85
.8438	27/32	.219	3/16	3	1/4	2 3/4	352227	147.95	.8161 - .8470	209.00	178.20	168.15	163.20	158.00	153.85
.8750	7/8	.219	3/16	3	1/4	2 3/4	352228	149.30	.8471 - .8780	210.35	179.75	169.70	164.65	159.35	155.30
.9062	29/32	.219	3/16	3	1/4	2 3/4	352229	150.25	.8781 - .9090	211.40	180.90	170.80	165.70	160.50	156.30
.9375	15/16	.219	3/16	3	1/4	2 3/4	352230	151.70	.9091 - .9410	212.85	182.35	172.15	167.10	162.05	157.65
.9688	31/32	.219	3/16	3	1/4	2 3/4	352231	152.75	.9411 - .9720	213.85	183.25	173.25	168.10	162.95	158.75
1.0000	1	.219	3/16	3	1/4	2 3/4	352232	153.20	.9721 - 1.0030	214.40	183.80	173.55	168.55	163.35	159.20
1.0625	1 1/16	.219	3/16	3	3/8	2 3/4	352234	195.60	1.0031 - 1.0660	256.60	226.05	216.00	210.85	205.65	201.50
1.1250	1 1/8	.219	3/16	3	3/8	2 3/4	352236	208.65	1.0661 - 1.1280	269.75	239.20	229.10	224.05	218.85	214.60
1.1875	1 3/16	.219	3/16	3	3/8	2 3/4	352238	211.30	1.1281 - 1.1905	272.40	241.90	231.70	226.75	221.50	217.40
1.2500	1 1/4	.281	1/4	3	3/8	2 3/4	352240	215.25	1.1906 - 1.2530	276.55	245.80	235.55	230.55	225.60	221.35
1.3125	1 5/16	.281	1/4	3	3/8	2 3/4	352242	219.20	1.2531 - 1.3155	280.30	249.75	239.70	234.65	229.35	225.20
1.3750	1 3/8	.281	1/4	3	3/8	2 3/4	352244	221.75	1.3156 - 1.3780	283.00	252.55	242.30	237.15	232.10	227.80
1.4375	1 7/16	.281	1/4	3	3/8	2 3/4	352246	224.45	1.3781 - 1.4405	285.65	255.00	244.90	239.85	234.70	230.50
1.5000	1 1/2	.281	1/4	3	3/8	2 3/4	352248	236.30	1.4406 - 1.5030	299.60	267.95	257.40	252.20	246.75	242.50
1.5625	1 5/8	.343	5/16	3	1/2	3 1/16	352250	262.85	1.5031 - 1.5660	326.15	294.55	284.00	278.80	273.50	269.20
1.6250	1 3/4	.343	5/16	3	1/2	3 1/16	352252	266.30	1.5661 - 1.6280	329.65	298.00	287.60	282.30	276.95	272.50
1.6875	1 11/16	.343	5/16	3	1/2	3 1/16	352254	269.80	1.6281 - 1.6910	333.20	301.55	290.95	285.85	280.45	276.10
1.7500	1 3/4	.343	5/16	3	1/2	3 1/16	352256	273.95	1.6911 - 1.7530	337.35	305.55	295.05	289.80	284.50	280.25
1.8125	1 13/16	.343	5/16	3	1/2	3 1/16	352258	277.25	1.7531 - 1.8160	340.00	308.45	297.85	292.65	287.15	282.85
1.8750	1 7/8	.343	5/16	3	1/2	3 1/16	352260	279.25	1.8161 - 1.8780	342.65	310.95	300.30	295.25	289.80	285.45
1.9375	1 15/16	.343	5/16	3	1/2	3 1/16	352262	308.15	1.8781 - 1.9410	371.50	339.80	329.20	324.00	318.65	314.35
2.0000	2	.343	5/16	3	1/2	3 1/16	352264	383.40	1.9411 - 2.0030	447.00	415.30	404.70	399.50	394.15	389.70

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CARBIDE TIPPED RADIAL DRIVE COUNTERBORES

TYPE 3577 - FOR NON-FERROUS & CAST IRON

Carbide tips brazed to hardened alloy steel bodies.

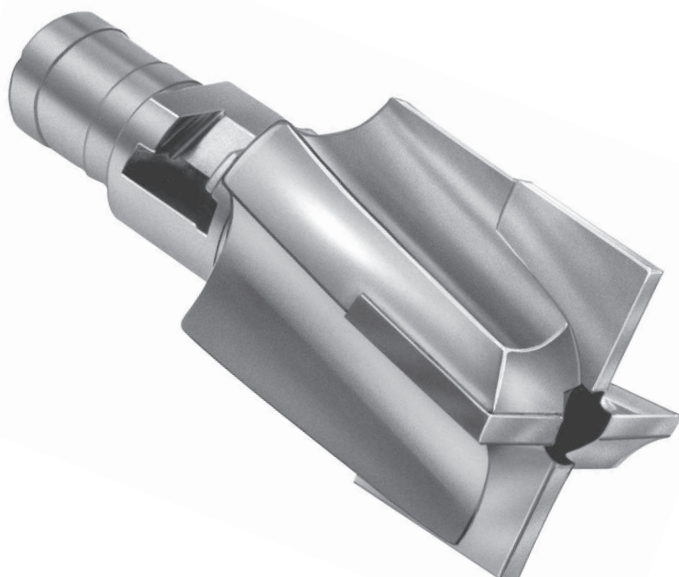
Tools are designed with appropriate carbide grade and tool geometry for machining non-ferrous, cast iron and non-metals.

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	\$245.15	.4721 - .5030	\$358.40	\$302.00	\$283.00	\$273.65	\$264.20	\$256.30
.5625	9/16	.219	3/16	RB	5/8	3	2 7/8	357718	357818	245.15	.5341 - .5660	358.40	302.00	283.00	273.65	264.20	256.30
.6250	5/8	.219	3/16	RB	5/8	3	2 7/8	357720	357820	245.15	.5971 - .6280	358.40	302.00	283.00	273.65	264.20	256.30
.6875	11/16	.297	1/4	RB	5/8	3	2 7/8	357722	357822	245.15	.6591 - .6910	358.40	302.00	283.00	273.65	264.20	256.30
.7500	3/4	.297	1/4	RB	5/8	4	2 7/8	357724	357824	245.15	.7221 - .7530	358.40	302.00	283.00	273.65	264.20	256.30
.8125	13/16	.297	1/4	RB	5/8	4	2 7/8	357726	357826	249.80	.7841 - .8160	363.10	306.50	287.50	278.30	268.90	260.90
.8750	7/8	.297	1/4	RB	5/8	4	2 7/8	357728	357828	249.80	.8471 - .8780	363.10	306.50	287.50	278.30	268.90	260.90
.9375	15/16	.297	1/4	RB	5/8	4	2 7/8	357730	357830	264.45	.9091 - .9410	377.75	321.10	302.15	292.80	283.40	275.55
1.0000	1	.297	1/4	RB	5/8	4	2 7/8	357732	357832	264.45	.9721 - 1.0030	377.75	321.10	302.15	292.80	283.40	275.55
1.0000	1	.359	5/16	RC	3/4	4	2 7/8	357733	357833	269.10	.9721 - 1.0030	382.40	325.75	306.85	297.50	287.95	280.25
1.0625	1 1/16	.359	5/16	RC	3/4	4	2 7/8	357734	357834	269.10	1.0031 - 1.0660	382.40	325.75	306.85	297.50	287.95	280.25
1.1250	1 1/8	.359	5/16	RC	3/4	4	2 7/8	357736	357836	269.10	1.0661 - 1.1280	382.40	325.75	306.85	297.50	287.95	280.25
1.1875	1 3/16	.359	5/16	RC	3/4	4	2 7/8	357738	357838	287.95	1.1281 - 1.1905	401.25	344.60	325.75	316.40	307.00	299.15
1.2500	1 1/4	.359	5/16	RC	3/4	4	2 7/8	357740	357840	287.95	1.1906 - 1.2530	401.25	344.60	325.75	316.40	307.00	299.15
1.3125	1 5/16	.359	5/16	RC	3/4	4	2 7/8	357742	357842	287.95	1.2531 - 1.3155	401.25	344.60	325.75	316.40	307.00	299.15
1.3750	1 3/8	.359	5/16	RC	3/4	4	2 7/8	357744	357844	287.95	1.3156 - 1.3780	401.25	344.60	325.75	316.40	307.00	299.15
1.3750	1 3/8	.359	5/16	RE	1	4	3	357745	357845	312.45	1.3151 - 1.3780	425.50	369.00	350.05	340.70	331.20	323.30
1.5000	1 1/2	.359	5/16	RE	1	4	3	357748	357848	350.45	1.4406 - 1.5030	463.75	407.15	388.30	378.95	369.55	361.65
1.5000	1 1/2	.484	7/16	RF	1 1/8	4	3 1/16	357749	357849	364.80	1.4406 - 1.5030	478.20	421.50	402.65	393.30	383.80	375.95
1.6250	1 5/8	.359	5/16	RE	1	4	3	357752	357852	364.80	1.5661 - 1.6280	478.20	421.50	402.65	393.30	383.80	375.95
1.6250	1 5/8	.484	7/16	RF	1 1/8	4	3 1/16	357753	357853	374.75	1.5661 - 1.6280	487.95	431.40	412.55	403.20	393.75	385.95
1.7500	1 3/4	.484	7/16	RF	1 1/8	6	3 1/16	357756	357856	460.65	1.6911 - 1.7530	573.95	517.30	498.45	489.10	479.70	471.85
1.8750	1 7/8	.484	7/16	RF	1 1/8	6	3 1/16	357760	357860	484.90	1.8161 - 1.8780	598.20	541.60	522.75	513.40	503.80	495.95
2.0000	2	.484	7/16	RF	1 1/8	6	3 1/16	357764	357864	528.10	1.9411 - 2.0030	641.55	584.85	565.90	556.55	547.15	539.30
2.0000	2	.563	1/2	RJ	1 3/8	6	3 1/16	357765	357865	528.10	1.9411 - 2.0030	641.55	584.85	565.90	556.55	547.15	539.30
2.1250	2 1/8	.563	1/2	RJ	1 3/8	6	3 1/16	357768	357868	542.45	2.0661 - 2.1280	655.75	599.35	580.40	571.05	561.60	553.70
2.2500	2 1/4	.563	1/2	RJ	1 3/8	6	3 1/16	357772	357872	566.30	2.1906 - 2.2530	679.60	623.00	604.10	594.75	585.30	577.50
2.3750	2 3/8	.563	1/2	RJ	1 3/8	6	3 1/16	357776	357876	597.70	2.3156 - 2.3780	715.30	656.50	636.90	627.40	617.25	609.05
2.5000	2 1/2	.563	1/2	RJ	1 3/8	6	3 1/16	357780	357880	622.95	2.4406 - 2.5030	740.60	681.80	662.10	652.45	642.70	634.50
2.6250	2 5/8	.563	1/2	RJ	1 3/8	6	3 1/16	357784	357884	637.25	2.5661 - 2.6280	755.00	696.20	676.45	666.85	657.05	648.90
2.7500	2 3/4	.563	1/2	RS	1 3/4	6	3 1/8	357788	357888	647.55	2.6911 - 2.7530	765.05	706.40	686.80	677.05	667.40	659.10
2.8750	2 7/8	.563	1/2	RS	1 3/4	6	3 1/8	357792	357892	682.50	2.8161 - 2.8780	800.15	741.35	721.75	712.00	702.20	694.05
3.0000	3	.563	1/2	RS	1 3/4	6	3 1/8	357796	357896	732.30	2.9411 - 3.0030	849.80	791.10	771.50	761.80	752.00	743.80

CARBIDE TIPPED PIN DRIVE COUNTERBORES

TYPE 3573 - FOR NON-FERROUS & CAST IRON

Carbide tips brazed to hardened alloy steel bodies.

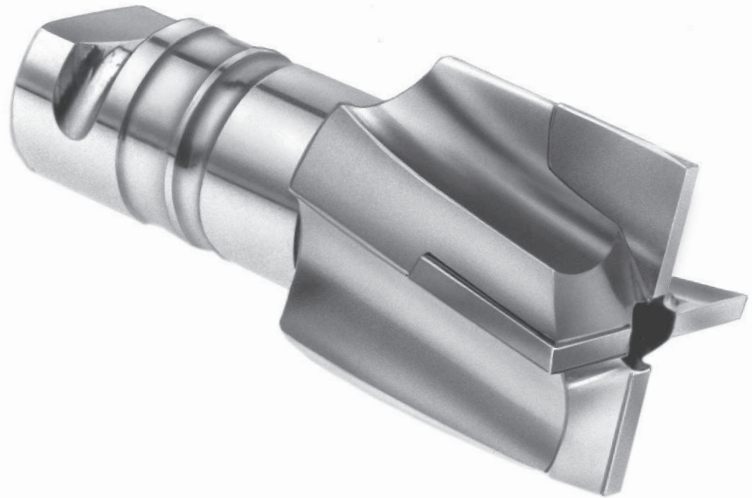
Tools are designed with appropriate carbide grade and tool geometry for machining non-ferrous, cast iron and non-metals.

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	5/16	3	2 7/8	357316	357416	\$235.45	.4721 - .5030	\$348.85	\$292.20	\$273.10	\$263.85	\$254.30	\$246.45
.5625	9/16	.2188	.1875	1	5/16	3	2 7/8	357318	357418	235.45	.5341 - .5660	348.85	292.20	273.10	263.85	254.30	246.45
.6250	5/8	.2188	.1875	1	5/16	3	2 7/8	357320	357420	235.45	.5971 - .6280	348.85	292.20	273.10	263.85	254.30	246.45
.6875	11/16	.2969	.2500	1	5/16	3	2 7/8	357322	357422	221.20	.6591 - .6910	334.50	277.85	259.00	249.75	240.20	232.25
.7500	3/4	.2969	.2500	1	5/16	3	2 7/8	357324	357424	221.20	.7221 - .7530	334.50	277.85	259.00	249.75	240.20	232.25
.8125	13/16	.2969	.2500	1	5/16	4	2 7/8	357326	357426	221.20	.7841 - .8160	334.50	277.85	259.00	249.75	240.20	232.25
.8750	7/8	.2969	.2500	1	5/16	4	2 7/8	357328	357428	221.20	.8471 - .8780	334.50	277.85	259.00	249.75	240.20	232.25
.9375	15/16	.2969	.2500	1	5/16	4	2 7/8	357330	357430	226.20	.9091 - .9410	339.55	283.00	264.05	254.80	245.15	237.30
1.0000	1	.2969	.2500	1	5/16	4	2 7/8	357332	357432	230.40	.9721 - 1.0030	343.70	287.15	268.05	258.70	249.25	241.45
1.0625	1 1/16	.2969	.2500	1	5/16	4	2 7/8	357334	357434	254.80	1.0031 - 1.0660	367.90	311.45	292.50	283.15	273.65	265.80
1.0625	1 1/16	.3594	.3125	2	7/8	4	3	357335	357435	269.10	1.0031 - 1.0660	382.40	325.75	306.85	297.50	287.95	280.25
1.1250	1 1/8	.2969	.2500	1	5/16	4	2 7/8	357336	357436	254.80	1.0661 - 1.1280	367.90	311.45	292.50	283.15	273.65	265.80
1.1250	1 1/8	.3594	.3125	2	7/8	4	3	357337	357437	269.10	1.0661 - 1.1280	382.40	325.75	306.85	297.50	287.95	280.25
1.1875	1 3/16	.3594	.3125	2	7/8	4	3	357338	357438	278.95	1.1281 - 1.1905	392.35	335.75	316.70	307.35	297.95	290.10
1.2500	1 1/4	.3594	.3125	2	7/8	4	3	357340	357440	278.95	1.1906 - 1.2530	392.35	335.75	316.70	307.35	297.95	290.10
1.3125	1 5/16	.3594	.3125	2	7/8	4	3	357342	357442	283.40	1.2531 - 1.3155	396.75	340.10	321.10	311.80	302.30	294.50
1.3750	1 3/8	.3594	.3125	2	7/8	4	3	357344	357444	283.40	1.3156 - 1.3780	396.75	340.10	321.10	311.80	302.30	294.50
1.4375	1 7/16	.3594	.3125	2	7/8	4	3	357346	357446	297.70	1.3781 - 1.4405	410.90	354.45	335.35	326.05	316.55	308.65
1.5000	1 1/2	.3594	.3125	2	7/8	4	3	357348	357448	312.45	1.4406 - 1.5030	425.50	369.00	350.05	340.70	331.20	323.30
1.5625	1 5/8	.3594	.3125	2	7/8	4	3	357350	357450	335.90	1.5031 - 1.5660	449.10	392.50	373.65	364.25	354.80	346.90
1.6250	1 3/4	.3594	.3125	2	7/8	4	3	357352	357452	350.45	1.5661 - 1.6280	463.75	407.15	388.30	378.95	369.55	361.65
1.6875	1 11/16	.3594	.3125	2	7/8	4	3	357354	357454	364.80	1.6281 - 1.6910	478.20	421.50	402.65	393.30	383.80	375.95
1.7500	1 3/4	.3594	.3125	2	7/8	4	3	357356	357456	384.25	1.6911 - 1.7530	497.40	440.80	421.95	412.60	403.20	395.35
1.7500	1 3/4	.4844	.4375	3	1 1/4	6	3 1/16	357357	357457	437.30	1.6911 - 1.7530	550.75	494.10	475.10	465.80	456.35	448.50
1.8750	1 7/8	.4844	.4375	3	1 1/4	6	3 1/16	357360	357460	437.30	1.8161 - 1.8780	550.75	494.10	475.10	465.80	456.35	448.50
2.0000	2	.4844	.4375	3	1 1/4	6	3 1/16	357364	357464	495.00	1.9411 - 2.0030	608.20	551.75	532.80	523.50	513.85	506.05
2.1250	2 1/8	.4844	.4375	3	1 1/4	6	3 1/16	357368	357468	508.80	2.0661 - 2.1280	621.95	565.45	546.50	537.15	527.75	519.90
2.2500	2 1/4	.4844	.4375	3	1 1/4	6	3 1/16	357372	357472	528.10	2.1906 - 2.2530	641.55	584.85	565.90	556.55	547.15	539.30
2.3750	2 3/8	.4844	.4375	3	1 1/4	6	3 1/16	357376	357476	592.60	2.3156 - 2.3780	710.30	651.35	631.90	622.10	612.30	604.15
2.5000	2 1/2	.5625	.5000	3	1 1/4	6	3 1/16	357380	357480	637.25	2.4406 - 2.5030	755.00	696.20	676.45	666.85	657.05	648.90
2.7500	2 3/4	.5625	.5000	3	1 1/4	6	3 1/16	357388	357488	707.50	2.6911 - 2.7530	825.05	766.25	746.55	736.90	727.10	719.05
3.0000	3	.5625	.5000	3	1 1/4	6	3 1/16	357396	357496	747.40	2.9411 - 3.0030	865.15	806.35	786.75	777.00	767.25	759.05

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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	FRACTIONAL										1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.5000	1/2	.2188	.1875	1	3	2 1/16	357516	357616	273.70	.4721 - .5030	\$377.95	\$325.90	\$308.45	\$299.85	\$291.05	\$283.90
.5625	9/16	.2188	.1875	1	3	2 1/16	357518	357618	273.70	.5341 - .5660	377.95	325.90	308.45	299.85	291.05	283.90
.6250	5/8	.2188	.1875	1	3	2 1/16	357520	357620	273.70	.5971 - .6280	377.95	325.90	308.45	299.85	291.05	283.90
.6875	11/16	.2188	.1875	1	3	2 1/16	357522	357622	273.70	.6591 - .6910	377.95	325.90	308.45	299.85	291.05	283.90
.7500	3/4	.2969	.2500	2	4	2 7/8	357524	357624	256.45	.7221 - .7530	360.70	308.75	291.25	282.75	274.00	266.75
.8125	13/16	.2969	.2500	2	4	2 7/8	357526	357626	256.45	.7841 - .8160	360.70	308.75	291.25	282.75	274.00	266.75
.8750	7/8	.2969	.2500	2	4	2 7/8	357528	357628	256.45	.8471 - .8780	360.70	308.75	291.25	282.75	274.00	266.75
.9375	15/16	.2969	.2500	2	4	2 7/8	357530	357630	247.35	.9091 - .9410	351.65	299.55	282.15	273.65	264.90	257.70
1.0000	1	.3594	.3125	2	4	2 7/8	357532	357632	247.35	.9721 - 1.0030	351.65	299.55	282.15	273.65	264.90	257.70
1.0625	1 1/16	.3594	.3125	2	4	2 7/8	357534	357634	247.35	1.0031 - 1.0660	351.65	299.55	282.15	273.65	264.90	257.70
1.1250	1 1/8	.3594	.3125	2	4	2 7/8	357536	357636	247.35	1.0661 - 1.1280	351.65	299.55	282.15	273.65	264.90	257.70
1.1875	1 3/16	.3594	.3125	2	4	2 7/8	357538	357638	256.45	1.1281 - 1.1905	360.70	308.75	291.25	282.75	274.00	266.75
1.2500	1 1/4	.3594	.3125	2	4	2 7/8	357540	357640	256.45	1.1906 - 1.2530	360.70	308.75	291.25	282.75	274.00	266.75
1.3125	1 5/16	.3594	.3125	2	4	2 7/8	357542	357642	260.60	1.2531 - 1.3155	364.85	312.75	295.35	286.65	278.10	270.80
1.3750	1 3/8	.3594	.3125	2	4	2 7/8	357544	357644	287.20	1.3156 - 1.3780	391.35	339.40	321.95	313.35	304.70	297.50
1.4375	1 7/16	.3594	.3125	2	4	2 7/8	357546	357646	313.75	1.3781 - 1.4405	417.90	365.85	348.35	339.80	331.05	323.70
1.5000	1 1/2	.3594	.3125	2	4	2 7/8	357548	357648	339.95	1.4406 - 1.5030	444.25	392.15	374.80	366.15	357.50	350.20
1.5625	1 5/8	.4844	.4375	3	6	3 3/16	357550	357650	362.00	1.5031 - 1.5660	466.35	414.15	396.80	388.40	379.55	372.35
1.6250	1 5/8	.4844	.4375	3	6	3 3/16	357552	357652	406.30	1.5661 - 1.6280	510.40	458.45	441.05	432.40	423.55	416.45
1.6875	1 11/16	.4844	.4375	3	6	3 3/16	357554	357654	441.35	1.6281 - 1.6910	545.65	493.55	476.25	467.65	458.90	451.70
1.7500	1 3/4	.4844	.4375	3	6	3 3/16	357556	357656	476.75	1.6911 - 1.7530	580.95	528.90	511.55	503.00	494.15	487.05
1.8125	1 13/16	.4844	.4375	3	6	3 3/16	357558	357658	503.45	1.7531 - 1.8160	607.75	555.65	538.10	529.65	520.90	513.70
1.8750	1 7/8	.4844	.4375	3	6	3 3/16	357560	357660	529.75	1.8161 - 1.8780	633.95	581.85	564.45	555.80	547.05	539.85
1.9375	1 15/16	.4844	.4375	3	6	3 3/16	357562	357662	556.50	1.8781 - 1.9410	660.70	608.60	591.20	582.60	573.95	566.60
2.0000	2	.5625	.5000	4	6	3 3/4	357564	357664	582.70	1.9411 - 2.0030	686.85	634.95	617.50	608.90	600.25	592.90
2.1250	2 1/8	.5625	.5000	4	6	3 3/4	357568	357668	600.40	2.0661 - 2.1280	704.65	652.50	635.10	626.55	617.90	610.60
2.2500	2 1/4	.5625	.5000	4	6	3 3/4	357572	357672	617.80	2.1906 - 2.2530	721.95	670.00	652.45	643.95	635.10	628.00
2.3750	2 3/8	.5625	.5000	4	6	3 3/4	357576	357676	664.40	2.3156 - 2.3780	772.40	718.35	700.35	691.45	682.40	675.00
2.5000	2 1/2	.5625	.5000	4	6	3 3/4	357580	357680	687.45	2.4406 - 2.5030	795.70	741.65	723.60	714.70	705.65	698.15
2.7500	2 3/4	.5625	.5000	4	6	3 3/4	357588	357688	724.05	2.6911 - 2.7530	832.10	778.05	759.90	751.10	742.05	734.60
3.0000	3	.5625	.5000	4	6	3 3/4	357596	357696	760.50	2.9411 - 3.0030	868.50	814.65	796.55	787.60	778.55	771.10

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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	FRACTION			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	\$113.50	\$83.95	\$73.75	\$69.15	\$63.90	\$60.05
*.1094	7/64	.0880	4	3/4	3	-	380006	\$54.25	.0891 - .0970	113.50	83.95	73.75	69.15	63.90	60.05
*.1250	1/8	.0943	4	7/8	3 1/2	-	380007	54.25	.0971 - .1120	113.50	83.95	73.75	69.15	63.90	60.05
*.1406	9/64	.1099	4	7/8	3 1/2	380108	380008	54.25	.1121 - .1280	113.50	83.95	73.75	69.15	63.90	60.05
*.1562	5/32	.1255	4	7/8	3 1/2	380109	380009	62.00	.1281 - .1435	121.30	91.55	81.55	76.90	71.80	67.80
*.1719	11/64	.1411	4	1	4	380110	380010	63.75	.1436 - .1590	123.00	93.40	83.30	78.65	73.50	69.70
*.1875	3/16	.1567	4	1	4	380111	380011	71.90	.1591 - .1750	131.05	101.60	91.55	86.80	81.80	77.75
.2031	13/64	.1724	4	1 1/8	4 1/2	380112	380012	73.40	.1751 - .1910	132.75	103.05	93.00	88.30	83.25	79.35
.2188	7/32	.1880	6	1 1/4	5	380113	380013	78.25	-	-	-	-	-	-	-
.2344	15/64	.1880	6	1 1/4	5	380114	380014	78.25	.1911 - .2210	137.55	107.95	97.95	93.15	88.05	84.20
.2500	1/4	.2193	6	1 1/2	6	380115	380015	83.25	-	-	-	-	-	-	-
.2656	17/64	.2193	6	1 1/2	6	380116	380016	83.25	.2211 - .2530	142.50	112.80	102.90	98.30	93.00	89.10
.2812	9/32	.2505	6	1 1/2	6	380117	380017	89.50	-	-	-	-	-	-	-
.2969	19/64	.2505	6	1 1/2	6	380118	380018	89.50	.2531 - .2840	148.70	119.15	109.15	104.50	99.40	95.40
.3125	5/16	.2817	6	1 5/8	6	380119	380019	93.15	-	-	-	-	-	-	-
.3281	21/64	.2817	6	1 5/8	6	380120	380020	93.15	.2841 - .3150	152.40	122.75	112.80	108.10	103.05	99.00
.3438	11/32	.3130	6	1 5/8	6	380121	380021	99.75	-	-	-	-	-	-	-
.3594	23/64	.3130	6	1 5/8	6	380122	380022	99.75	.3151 - .3470	158.90	129.20	119.20	114.45	109.50	105.55
.3750	3/8	.3443	6	1 3/4	7	380123	380023	107.25	-	-	-	-	-	-	-
.3906	25/64	.3443	6	1 3/4	7	380124	380024	107.25	.3471 - .3780	166.40	136.70	126.80	122.10	117.05	113.10
.4062	13/32	.3755	6	1 3/4	7	380125	380025	122.50	-	-	-	-	-	-	-
.4219	27/64	.3755	6	1 3/4	7	380126	380026	122.50	.3781 - .4090	181.70	152.05	142.25	137.50	132.35	128.30
.4375	7/16	.4067	6	1 3/4	7	380127	380027	130.15	-	-	-	-	-	-	-
.4531	29/64	.4067	6	1 3/4	7	380128	380028	130.15	.4091 - .4410	189.35	159.65	149.80	145.15	139.90	135.90
.4688	15/32	.4380	6	1 3/4	8	380129	380029	138.00	-	-	-	-	-	-	-
.4844	31/64	.4380	6	1 3/4	8	380130	380030	138.00	.4411 - .4720	197.20	167.50	157.60	152.95	147.90	143.75
.5000	1/2	.4693	6	1 3/4	8	380131	380031	148.10	-	-	-	-	-	-	-
.5156	33/64	.4693	6	1 3/4	8	380132	380032	148.10	.4721 - .5030	207.45	177.75	167.70	163.00	157.95	154.00
.5312	17/32	.5005	6	1 7/8	9	380133	380033	191.10	-	-	-	-	-	-	-
.5469	35/64	.5005	6	1 7/8	9	380134	380034	191.10	.5031 - .5340	250.25	220.55	210.75	206.00	200.85	196.80
.5625	9/16	.5005	6	1 7/8	9	380135	380035	225.55	-	-	-	-	-	-	-
.5781	37/64	.5005	6	1 7/8	9	380136	380036	221.45	.5341 - .5660	279.60	250.35	240.60	236.05	231.05	227.15
.5938	19/32	.5630	6	1 7/8	9	380137	380037	251.30	-	-	-	-	-	-	-
.6094	39/64	.5630	6	1 7/8	9	380138	380038	251.30	.5661 - .5970	309.45	280.40	270.55	265.90	261.00	256.95
.6250	5/8	.5630	6	1 7/8	9	380139	380039	254.15	-	-	-	-	-	-	-
.6562	21/32	.5630	6	1 7/8	9	380140	380040	254.15	.5971 - .6280	312.20	283.05	273.45	268.80	263.80	259.75
.6875	11/16	.6255	6	2	9 1/2	380142	380042	367.65	.6281 - .6590	422.95	395.25	386.00	381.55	377.40	373.05
.7188	23/32	.6255	6	2	9 1/2	380144	380044	367.65	.6591 - .6910	422.95	395.25	386.00	381.55	377.40	373.05
.7500	3/4	.6880	6	2	9 1/2	380146	380046	413.70	.6911 - .7220	469.00	441.20	432.05	427.55	423.45	419.10
.7812	25/32	.6880	6	2	9 1/2	380148	380048	413.70	.7221 - .7530	469.00	441.20	432.05	427.55	423.45	419.10
.8125	13/16	.7505	8	2	10	380150	380050	459.25	.7531 - .7840	514.50	486.80	477.55	473.10	468.85	464.50
.8438	27/32	.7817	8	2	10	380152	380052	501.05	.7841 - .8160	556.35	528.55	519.40	514.95	510.75	506.45
.8750	7/8	.8130	8	2	10	380154	380054	528.40	.8161 - .8470	583.70	556.00	546.75	542.35	538.05	533.80
.9062	29/32	.8440	8	2	10	380156	380056	517.35	.8471 - .8780	572.70	544.90	535.75	531.30	527.05	522.70
.9375	15/16	.8755	8	2	10	380158	380058	605.35	.8781 - .9090	660.65	632.90	623.70	619.30	615.00	610.75
.9688	31/32	.9067	8	2	10	380160	380060	636.35	.9091 - .9410	691.60	663.90	654.65	650.20	646.00	641.65
1.0000	1	.9380	8	2	10	380162	380062	666.55	.9411 - .9720	721.85	694.15	684.90	680.45	676.20	671.85
		.9693	8	2	10	380164	380064	691.65	.9721 - 1.0030	746.95	719.25	710.00	705.60	701.40	697.05

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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	\$55.35	.1121 - .1280	\$105.05	\$80.20	\$71.75	\$67.80	\$63.50	\$60.25
.1406	9/64*	.1255	4	7/8	3 1/2	381109	381009	382109	382009	63.20	.1281 - .1435	112.95	88.00	79.70	75.75	71.55	68.20
.1562	5/32*	.1411	4	1	4	381110	381010	382110	382010	65.30	.1436 - .1590	114.95	89.95	81.60	77.70	73.40	70.05
.1719	11/64*	.1567	4	1	4	381111	381011	382111	382011	80.80	.1591 - .1750	135.55	108.20	98.90	94.60	89.95	86.35
.1875	3/16*	.1724	4	1 1/8	4 1/2	381112	381012	382112	382012	82.50	.1751 - .1910	137.05	109.80	100.60	96.30	91.65	87.95
.2031	13/64	.1880	6	1 1/4	5	381113	381013	382113	382013	87.95	-	-	-	-	-	-	-
.2188	7/32	.1880	6	1 1/4	5	381114	381014	382114	382014	95.40	.1911 - .2210	154.65	124.95	115.10	110.45	105.15	101.20
.2344	15/64	.2193	6	1 1/2	6	381115	381015	382115	382015	101.65	-	-	-	-	-	-	-
.2500	1/4	.2193	6	1 1/2	6	381116	381016	382116	382016	101.65	.2211 - .2530	160.85	131.05	121.30	116.40	111.35	107.30
.2656	17/64	.2505	6	1 1/2	6	381117	381017	382117	382017	109.15	-	-	-	-	-	-	-
.2812	9/32	.2505	6	1 1/2	6	381118	381018	382118	382018	109.15	.2531 - .2840	168.40	138.80	128.70	124.05	118.90	115.10
.2969	19/64	.2817	6	1 5/8	6	381119	381019	382119	382019	113.85	-	-	-	-	-	-	-
.3125	5/16	.2817	6	1 5/8	6	381120	381020	382120	382020	113.85	.2841 - .3150	172.90	143.30	133.40	128.55	123.50	119.45
.3281	21/64	.3130	6	1 5/8	6	381121	381021	382121	382021	121.45	-	-	-	-	-	-	-
.3438	11/32	.3130	6	1 5/8	6	381122	381022	382122	382022	121.45	.3151 - .3470	180.65	151.10	141.05	136.30	131.20	127.35
.3594	23/64	.3443	6	1 3/4	7	381123	381023	382123	382023	130.80	-	-	-	-	-	-	-
.3750	3/8	.3443	6	1 3/4	7	381124	381024	382124	382024	130.80	.3471 - .3780	189.80	160.20	150.35	145.70	140.55	136.45
.3906	25/64	.3755	6	1 3/4	7	381125	381025	382125	382025	149.50	-	-	-	-	-	-	-
.4062	13/32	.3755	6	1 3/4	7	381126	381026	382126	382026	149.50	.3781 - .4090	208.65	178.95	169.05	164.20	159.30	155.20
.4219	27/64	.4067	6	1 3/4	7	381127	381027	382127	382027	158.60	-	-	-	-	-	-	-
.4375	7/16	.4067	6	1 3/4	7	381128	381028	382128	382028	158.60	.4091 - .4410	217.75	188.05	178.25	173.55	168.40	164.40
.4531	29/64	.4380	6	1 3/4	8	381129	381029	382129	382029	168.35	-	-	-	-	-	-	-
.4688	15/32	.4380	6	1 3/4	8	381130	381030	382130	382030	168.35	.4411 - .4720	227.40	197.80	187.90	183.20	178.15	174.10
.4844	31/64	.4693	6	1 3/4	8	381131	381031	382131	382031	180.55	-	-	-	-	-	-	-
.5000	1/2	.4693	6	1 3/4	8	381132	381032	382132	382032	180.55	.4721 - .5030	239.75	210.10	200.20	195.45	190.45	186.45
.5156	33/64	.5005	6	1 7/8	9	381133	381033	382133	382033	214.60	-	-	-	-	-	-	-
.5312	17/32	.5005	6	1 7/8	9	381134	381034	382134	382034	210.65	.5031 - .5340	264.35	237.45	228.40	224.15	219.55	216.05
.5469	35/64	.5005	6	1 7/8	9	381135	381035	382135	382035	248.85	-	-	-	-	-	-	-
.5625	9/16	.5005	6	1 7/8	9	381136	381036	382136	382036	248.85	.5341 - .5660	302.50	275.60	266.55	262.30	257.70	254.05
.5781	37/64	.5630	6	1 7/8	9	381137	381037	382137	382037	282.35	-	-	-	-	-	-	-
.5938	19/32	.5630	6	1 7/8	9	381138	381038	382138	382038	282.35	.5661 - .5970	335.85	309.10	300.15	295.85	291.25	287.60
.6094	39/64	.5630	6	1 7/8	9	381139	381039	382139	382039	285.60	-	-	-	-	-	-	-
.6250	5/8	.5630	6	1 7/8	9	381140	381040	382140	382040	285.60	.5971 - .6280	339.30	312.45	303.35	299.10	294.50	290.85
.6562	21/32	.6255	6	2	9 1/2	381142	381042	382142	382042	413.50	.6281 - .6590	475.70	444.55	434.15	429.10	424.40	419.55
.6875	11/16	.6255	6	2	9 1/2	381144	381044	382144	382044	413.50	.6591 - .6910	475.70	444.55	434.15	429.10	424.40	419.55
.7188	23/32	.6880	6	2	9 1/2	381146	381046	382146	382046	465.25	.6911 - .7220	527.50	496.10	485.80	480.90	476.05	471.15
.7500	3/4	.6880	6	2	9 1/2	381148	381048	382148	382048	465.25	.7221 - .7530	527.50	496.10	485.80	480.90	476.05	471.15
.7812	25/32	.7505	8	2	10	381150	381050	382150	382050	516.45	.7531 - .7840	578.60	547.35	537.00	532.00	527.20	522.45
.8125	13/16	.7817	8	2	10	381152	381052	382152	382052	563.40	.7841 - .8160	625.65	594.40	584.10	579.05	574.30	569.40
.8438	27/32	.8130	8	2	10	381154	381054	382154	382054	594.20	.8161 - .8470	656.35	625.20	614.80	609.90	605.10	600.20
.8750	7/8	.8440	8	2	10	381156	381056	382156	382056	581.80	.8471 - .8780	644.00	612.80	602.45	597.40	592.70	587.80
.9062	29/32	.8755	8	2	10	381158	381058	382158	382058	680.80	.8781 - .9090	742.95	711.80	701.35	696.35	691.60	686.80
.9375	15/16	.9067	8	2	10	381160	381060	382160	382060	715.50	.9091 - .9410	777.70	746.55	736.20	731.15	726.40	721.60
.9688	31/32	.9380	8	2	10	381162	381062	382162	382062	749.50	.9411 - .9720	811.65	780.50	770.20	765.15	760.40	755.60
1.0000	1	.9693	8	2	10	381164	381064	382164	382064	777.75	.9721 - 1.0030	840.00	808.80	798.45	793.55	788.65	783.90

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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	\$113.50	\$83.95	\$73.75	\$69.15	\$63.90	\$60.05
*.0938	3/32	.0880	4	3/4	3	-	380006	\$54.25	.0891 - .0970	113.50	83.95	73.75	69.15	63.90	60.05
*.1094	7/64	.0943	4	7/8	3 1/2	-	380007	54.25	.0971 - .1120	113.50	83.95	73.75	69.15	63.90	60.05
.1250	1/8	.1099	4	7/8	3 1/2	380108	380008	54.25	.1121 - .1280	113.50	83.95	73.75	69.15	63.90	60.05
.1406	9/64	.1255	4	7/8	3 1/2	380109	380009	62.00	.1281 - .1435	121.30	91.55	81.55	76.90	71.80	67.80
.1562	5/32	.1411	4	1	4	380110	380010	63.75	.1436 - .1590	123.00	93.40	83.30	78.65	73.50	69.70
.1719	11/64	.1567	4	1	4	380111	380011	71.90	.1591 - .1750	131.05	101.60	91.55	86.80	81.80	77.75
.1875	3/16	.1724	4	1 1/8	4 1/2	380112	380012	73.40	.1751 - .1910	132.75	103.05	93.00	88.30	83.25	79.35

*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	\$106.75	\$66.50	\$53.00	\$46.65	\$39.75	\$34.30	\$26.40
*.0661 - .0740	.0650	4	1/2	1 3/4	-	380245	107.15	66.80	53.35	46.90	40.05	34.60	26.70
*.0741 - .0810	.0730	4	1/2	1 3/4	-	380205	107.30	66.95	53.40	47.20	40.15	34.85	26.80
*.0811 - .0890	.0800	4	1/2	2	-	380255	107.90	67.65	54.15	47.80	40.95	35.45	27.60
*.0891 - .0970	.0880	4	1/2	2	-	380206	108.65	68.25	54.85	48.45	41.65	36.00	28.25
*.0971 - .1120	.0943	4	5/8	2 1/4	380307	380207	109.00	68.65	55.20	48.80	41.90	36.50	28.65
.1121 - .1280	.1099	4	5/8	2 1/4	380308	380208	110.95	70.55	57.15	50.75	43.80	38.35	30.50
.1281 - .1435	.1255	4	3/4	2 1/2	380309	380209	111.65	71.40	57.90	51.55	44.65	39.25	31.30
.1436 - .1590	.1411	4	3/4	2 1/2	380310	380210	113.60	73.25	59.80	53.40	46.60	41.05	33.15
.1591 - .1750	.1567	4	7/8	2 3/4	380311	380211	117.90	77.45	64.05	57.75	50.85	45.40	37.45
.1751 - .1910	.1724	4	7/8	2 3/4	380312	380212	120.70	80.35	66.95	60.60	53.55	48.30	40.30
.1911 - .2210	.1880	6	1	3	380314	380214	125.70	85.40	71.95	65.60	58.75	53.30	45.40
.2211 - .2530	.2193	6	1	3	380316	380216	134.25	94.00	80.50	74.20	67.30	61.80	53.95
.2531 - .2840	.2505	6	1 1/8	3 1/4	380318	380218	144.25	103.90	90.45	84.05	77.25	71.75	63.90
.2841 - .3150	.2817	6	1 1/8	3 1/4	380320	380220	155.25	114.95	101.30	95.10	88.20	82.75	74.85
.3151 - .3470	.3130	6	1 1/4	3 1/2	380322	380222	171.50	131.25	117.85	111.45	104.55	98.90	91.25
.3471 - .3780	.3443	6	1 1/4	3 1/2	380324	380224	173.65	133.40	120.05	113.60	106.70	101.15	93.35
.3781 - .4090	.3755	6	1 3/8	3 3/4	380326	380226	188.00	147.75	134.25	127.75	120.95	115.55	107.60
.4091 - .4410	.4067	6	1 3/8	3 3/4	380328	380228	189.65	149.30	135.85	129.50	122.65	117.10	109.20
.4411 - .4720	.4380	6	1 1/2	4	380330	380230	201.15	160.85	147.35	141.05	134.15	128.75	120.80
.4721 - .5150	.4693	6	1 1/2	4	380332	380232	212.35	172.05	158.50	152.25	145.35	139.95	132.00

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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	\$55.35	.1121 - .1280	\$105.05	\$80.20	\$71.75	\$67.80	\$63.50	\$60.25
.1406	9/64	.1255	4	7/8	3 1/2	381109	381009	382109	382009	63.20	.1281 - .1435	112.95	88.00	79.70	75.75	71.55	68.20
.1562	5/32	.1411	4	1	4	381110	381010	382110	382010	65.30	.1436 - .1590	114.95	89.95	81.60	77.70	73.40	70.05
.1719	11/64	.1567	4	1	4	381111	381011	382111	382011	80.80	.1591 - .1750	135.55	108.20	98.90	94.60	89.95	86.35
.1875	3/16	.1724	4	1 1/8	4 1/2	381112	381012	382112	382012	82.50	.1751 - .1910	137.05	109.80	100.60	96.30	91.65	87.95

*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	\$113.15	\$72.45	\$58.80	\$52.35	\$45.30	\$39.80	\$31.80	
.1121 - .1280	.1099	4	5/8	2 1/4	381308	381208	382308	382208	115.30	74.50	60.85	54.50	47.35	41.85	33.95	
.1281 - .1435	.1255	4	3/4	2 1/2	381309	381209	382309	382209	122.05	79.35	65.00	58.20	50.90	45.05	36.65	
.1436 - .1590	.1411	4	3/4	2 1/2	381310	381210	382310	382210	124.35	81.50	67.15	60.40	53.05	47.20	39.00	
.1591 - .1750	.1567	4	7/8	2 3/4	381311	381211	382311	382211	129.30	86.55	72.20	65.30	58.10	52.20	43.85	
.1751 - .1910	.1724	4	7/8	2 3/4	381312	381212	382312	382212	132.55	89.85	75.40	68.60	61.25	55.50	47.15	
.1911 - .2210	.1880	6	1	3	381314	381214	382314	382214	144.95	100.20	85.15	78.05	70.35	64.25	55.50	
.2211 - .2530	.2193	6	1	3	381316	381216	382316	382216	155.60	110.60	95.60	88.60	80.85	74.90	66.15	
.2531 - .2840	.2505	6	1 1/8	3 1/4	381318	381218	382318	382218	167.80	122.95	107.90	100.95	93.15	87.15	78.35	
.2841 - .3150	.2817	6	1 1/8	3 1/4	381320	381220	382320	382220	181.05	136.20	121.20	114.15	106.45	100.35	91.50	
.3151 - .3470	.3130	6	1 1/4	3 1/2	381322	381222	382322	382222	201.05	156.20	141.20	134.15	126.40	120.25	111.55	
.3471 - .3780	.3443	6	1 1/4	3 1/2	381324	381224	382324	382224	203.75	158.90	143.95	136.75	129.15	123.00	114.20	
.3781 - .4090	.3755	6	1 3/8	3 3/4	381326	381226	382326	382226	209.40	164.50	149.45	142.35	134.65	128.60	119.90	
.4091 - .4410	.4067	6	1 3/8	3 3/4	381328	381228	382328	382228	211.15	166.20	151.15	144.10	136.45	130.30	121.65	
.4411 - .4720	.4380	6	1 1/2	4	381330	381230	382330	382230	223.95	179.05	164.10	157.05	149.40	143.25	134.45	
.4721 - .5150	.4693	6	1 1/2	4	381332	381232	382332	382232	236.40	191.55	176.50	169.55	161.75	155.70	146.95	

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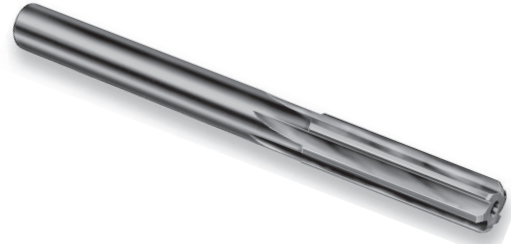
*Provided with male centers

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".

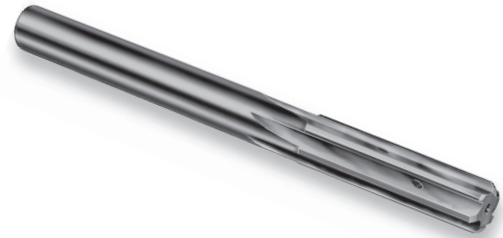
For closer tool diameter tolerance pricing, see page 60.

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	\$202.65	\$175.55	\$166.50	\$162.20	\$157.35	\$153.75	\$148.40
.1281 - .1435	.1255	4	3/4	2 1/2	380709	380609	204.10	176.85	168.00	163.50	158.90	155.20	149.85
.1436 - .1590	.1411	4	3/4	2 1/2	380710	380610	204.90	177.85	168.80	164.40	159.65	156.05	150.75
.1591 - .1750	.1567	4	7/8	2 3/4	380711	380611	206.90	179.80	170.80	166.40	161.65	158.05	152.75
.1751 - .1910	.1724	4	7/8	2 3/4	380712	380612	215.25	187.95	179.05	174.60	170.00	166.35	161.05
.1911 - .2210	.1880	6	1	3	380714	380614	218.40	191.25	182.20	177.85	173.15	169.45	164.25
.2211 - .2530	.2193	6	1	3	380716	380616	222.30	195.15	186.10	181.75	176.90	173.45	168.10
.2531 - .2840	.2505	6	1 1/8	3 1/4	380718	380618	228.65	201.45	192.45	187.95	183.35	179.75	174.30
.2841 - .3150	.2817	6	1 1/8	3 1/4	380720	380620	233.85	206.75	197.70	193.30	188.65	185.10	179.75
.3151 - .3470	.3130	6	1 1/4	3 1/2	380722	380622	240.35	213.15	204.20	199.65	195.15	191.45	186.10
.3471 - .3780	.3443	6	1 1/4	3 1/2	380724	380624	247.65	220.45	211.50	207.10	202.45	198.75	193.45
.3781 - .4090	.3755	6	1 3/8	3 3/4	380726	380626	259.10	231.95	223.05	218.55	213.95	210.25	204.90

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	\$286.75	\$259.60	\$250.55	\$246.30	\$241.45	\$237.90	\$232.65
.1281 - .1435	.1255	4	3/4	2 1/2	380909	380809	272.40	245.20	236.25	231.70	227.20	223.50	218.20
.1436 - .1590	.1411	4	3/4	2 1/2	380910	380810	289.60	262.35	253.50	248.95	244.35	240.70	235.30
.1591 - .1750	.1567	4	7/8	2 3/4	380911	380811	292.05	264.90	255.95	251.55	246.90	243.20	237.90
.1751 - .1910	.1724	4	7/8	2 3/4	380912	380812	293.90	266.75	257.70	253.35	248.60	244.95	239.70
.1911 - .2210	.1880	6	1	3	380914	380814	353.15	326.00	316.95	312.60	307.90	304.40	298.95
.2211 - .2530	.2193	6	1	3	380916	380816	357.55	330.30	321.45	316.85	312.25	308.60	303.25
.2531 - .2840	.2505	6	1 1/8	3 1/4	380918	380818	365.15	337.95	329.05	324.60	319.95	316.25	310.90
.2841 - .3150	.2817	6	1 1/8	3 1/4	380920	380820	371.20	344.15	335.10	330.65	326.00	322.25	316.95
.3151 - .3470	.3130	6	1 1/4	3 1/2	380922	380822	394.90	367.70	358.70	354.20	349.60	346.00	340.65
.3471 - .3780	.3443	6	1 1/4	3 1/2	380924	380824	403.25	376.05	367.15	362.65	358.05	354.30	349.00
.3781 - .4090	.3755	6	1 3/8	3 3/4	380926	380826	417.05	389.90	380.85	376.45	371.75	368.15	362.80

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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	\$207.80	\$180.50	\$171.60	\$167.15	\$162.50	\$158.90	\$153.45
.1281 - .1435	.1255	4	3/4	2 1/2	381709	381609	209.20	182.05	173.00	168.65	163.80	160.35	155.05
.1436 - .1590	.1411	4	3/4	2 1/2	381710	381610	210.10	182.80	174.00	169.45	164.80	161.20	155.85
.1591 - .1750	.1567	4	7/8	2 3/4	381711	381611	212.10	184.95	176.00	171.45	166.80	163.20	157.75
.1751 - .1910	.1724	4	7/8	2 3/4	381712	381612	220.30	193.15	184.10	179.75	175.00	171.40	166.20
.1911 - .2210	.1880	6	1	3	381714	381614	223.45	196.30	187.25	182.75	178.15	174.55	169.10
.2211 - .2530	.2193	6	1	3	381716	381616	227.25	200.15	191.15	186.55	182.05	178.35	173.00
.2531 - .2840	.2505	6	1 1/8	3 1/4	381718	381618	233.55	206.50	197.45	193.10	188.35	184.55	179.35
.2841 - .3150	.2817	6	1 1/8	3 1/4	381720	381620	238.85	211.80	202.75	198.35	193.60	189.95	184.55
.3151 - .3470	.3130	6	1 1/4	3 1/2	381722	381622	245.45	218.30	209.25	204.80	200.30	196.55	191.25
.3471 - .3780	.3443	6	1 1/4	3 1/2	381724	381624	254.25	226.95	218.00	213.60	208.85	205.25	200.05
.3781 - .4090	.3755	6	1 3/8	3 3/4	381726	381626	265.80	238.70	229.65	225.25	220.50	216.90	211.70

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.

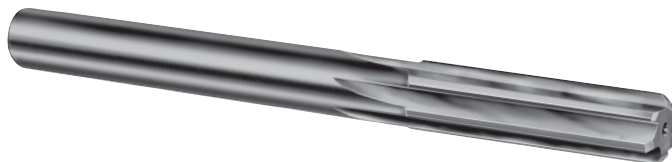
FLUTE FED COOLANT

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	\$328.00	\$300.85	\$291.90	\$287.50	\$282.75	\$279.10	\$273.80
.1281 - .1435	.1255	4	3/4	2 1/2	382909	382809	329.80	302.60	293.65	289.35	284.50	280.85	275.55
.1436 - .1590	.1411	4	3/4	2 1/2	382910	382810	330.80	303.60	294.70	290.10	285.60	281.90	276.55
.1591 - .1750	.1567	4	7/8	2 3/4	382911	382811	333.10	305.90	296.95	292.55	287.80	284.30	278.95
.1751 - .1910	.1724	4	7/8	2 3/4	382912	382812	334.65	307.50	298.65	294.05	289.50	285.75	280.45
.1911 - .2210	.1880	6	1	3	382914	382814	432.75	405.65	396.60	392.15	387.40	383.95	378.65
.2211 - .2530	.2193	6	1	3	382916	382816	432.40	405.35	396.30	391.90	387.15	383.50	378.25
.2531 - .2840	.2505	6	1 1/8	3 1/4	382918	382818	439.95	412.85	403.80	399.40	394.65	391.05	385.85
.2841 - .3150	.2817	6	1 1/8	3 1/4	382920	382820	446.10	419.05	410.00	405.65	401.05	397.30	392.00
.3151 - .3470	.3130	6	1 1/4	3 1/2	382922	382822	469.65	442.60	433.55	429.10	424.40	420.80	415.35
.3471 - .3780	.3443	6	1 1/4	3 1/2	382924	382824	478.15	451.10	442.05	437.60	432.90	429.30	424.05
.3781 - .4090	.3755	6	1 3/8	3 3/4	382926	382826	492.25	464.95	456.05	451.55	446.95	443.25	438.00

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.



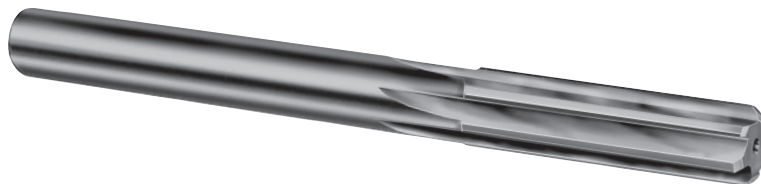
TOOL DIAMETER				EDP NO.	PRICE EACH	TOOL DIAMETER				EDP NO.	PRICE EACH	TOOL DIAMETER				EDP NO.	PRICE EACH
DECIMAL	FRAC.	WIRE LETTER	mm			DECIMAL	FRAC.	WIRE LETTER	mm			DECIMAL	FRAC.	WIRE LETTER	mm		
.0312	*1/32			380402	\$32.90	.1457			3.7	3804037	\$42.80	.2480			6.3	3804063	\$73.45
.0394			*1.0	3804010	31.50	.1470		26		38041470	43.55	.2500	1/4	E		380416	66.80
.0433			*1.1	3804011	34.65	.1495		25		38041495	43.80	.2520			6.4	3804064	80.95
.0469	*3/64			380403	34.90	.1496			3.8	3804038	46.00	.2559			6.5	3804065	80.90
.0472			*1.2	3804012	34.90	.1520		24		38041520	43.80	.2570		F		38042570	80.90
.0512			*1.3	3804013	34.90	.1535			3.9	3804039	45.65	.2598			6.6	3804066	84.80
.0551			*1.4	3804014	34.90	.1540		23		38041540	45.65	.2610		G		38042610	80.90
.0591			1.5	3804015	30.95	.1562	5/32			380410	43.10	.2638			6.7	3804067	84.80
.0625	1/16			380404	31.85	.1570		22		38041570	47.20	.2656	17/64			380417	80.90
.0630			1.6	3804016	34.60	.1575			4.0	3804040	43.10	.2660		H		38042660	80.90
.0669			1.7	3804017	35.00	.1590		21		38041590	48.40	.2677			6.8	3804068	84.80
.0670		51		38040670	35.00	.1610		20		38041610	48.95	.2717			6.9	3804069	84.80
.0700		50		38040700	35.00	.1614			4.1	3804041	48.95	.2720		I		38042720	80.90
.0709			1.8	3804018	35.00	.1654			4.2	3804042	49.25	.2756			7.0	3804070	73.75
.0730		49		38040730	35.00	.1660		19		38041660	49.25	.2770		J		38042770	80.90
.0748			1.9	3804019	35.00	.1693			4.3	3804043	49.80	.2795			7.1	3804071	92.10
.0760		48		38040760	35.00	.1695		18		38041695	49.80	.2810		K		38042810	87.65
.0781	5/64			380405	35.00	.1719	11/64			380411	50.75	.2812	9/32			380418	80.15
.0785		47		38040785	35.10	.1730		17		38041730	50.75	.2835			7.2	3804072	99.50
.0787			2.0	3804020	32.30	.1732			4.4	3804044	50.75	.2874			7.3	3804073	99.50
.0810		46		38040810	35.10	.1770		16		38041770	52.00	.2900		L		38042900	94.90
.0820		45		38040820	35.25	.1772			4.5	3804045	47.20	.2913			7.4	3804074	99.50
.0827			2.1	3804021	35.25	.1800		15		38041800	52.25	.2950		M		38042950	94.90
.0860		44		38040860	35.25	.1811			4.6	3804046	52.90	.2953			7.5	3804075	94.90
.0866			2.2	3804022	35.25	.1820		14		38041820	53.00	.2969	19/64			380419	94.90
.0890		43		38040890	35.85	.1850		13	4.7	3804047	53.35	.2992			7.6	3804076	103.80
.0906			2.3	3804023	35.85	.1875	3/16			380412	51.20	.3020		N		38043020	98.85
.0935		42		38040935	36.00	.1890		12	4.8	3804048	56.25	.3031			7.7	3804077	103.80
.0938	3/32			380406	33.15	.1910		11		38041910	56.90	.3071			7.8	3804078	103.80
.0945			2.4	3804024	36.00	.1929			4.9	3804049	56.90	.3110			7.9	3804079	103.80
.0960		41		38040960	36.75	.1935		10		38041935	57.30	.3125	5/16			380420	90.40
.0980		40		38040980	36.75	.1960		9		38041960	59.30	.3150			8.0	3804080	90.40
.0984			2.5	3804025	33.55	.1969			5.0	3804050	54.10	.3160		O		38043160	103.80
.0995		39		38040995	37.05	.1990		8		38041990	59.60	.3189			8.1	3804081	110.50
.1015		38		38041015	37.05	.2008			5.1	3804051	61.50	.3228			8.2	3804082	110.50
.1024			2.6	3804026	37.15	.2010		7		38042010	61.50	.3230		P		38043230	105.05
.1040		37		38041040	39.35	.2031	13/64			380413	61.50	.3268			8.3	3804083	126.35
.1063			2.7	3804027	37.40	.2040		6		38042040	61.50	.3281	21/64			380421	120.30
.1065		36		38041065	37.40	.2047			5.2	3804052	61.50	.3307			8.4	3804084	126.35
.1094	7/64			380407	38.50	.2055		5		38042055	61.50	.3320		Q		38043320	120.30
.1100		35		38041100	38.50	.2087			5.3	3804053	61.50	.3346			8.5	3804085	120.30
.1102			2.8	3804028	38.50	.2090		4		38042090	64.65	.3386			8.6	3804086	126.35
.1110		34		38041110	39.20	.2126			5.4	3804054	61.50	.3390		R		38043390	120.30
.1130		33		38041130	39.70	.2130		3		38042130	61.50	.3425			8.7	3804087	126.35
.1142			2.9	3804029	39.70	.2165			5.5	3804055	56.25	.3438	11/32			380422	120.30
.1160		32		38041160	39.70	.2188	7/32			380414	56.10	.3465			8.8	3804088	126.90
.1181			3.0	3804030	36.75	.2205			5.6	3804056	68.55	.3480		S		38043480	120.80
.1200		31		38041200	39.85	.2210		2		38042210	68.55	.3504			8.9	3804089	126.90
.1220			3.1	3804031	39.85	.2244			5.7	3804057	71.15	.3543			9.0	3804090	111.10
.1250	1/8			380408	36.75	.2280		1		38042280	72.05	.3580		T		38043580	121.30
.1260			3.2	3804032	39.85	.2283			5.8	3804058	72.05	.3583			9.1	3804091	128.05
.1285		30		38041285	39.90	.2323			5.9	3804059	72.05	.3594	23/64			380423	121.90
.1299			3.3	3804033	39.90	.2340		A		38042340	72.05	.3622			9.2	3804092	129.65
.1339			3.4	3804034	39.90	.2344	15/64			380415	72.05	.3661			9.3	3804093	129.65
.1360		29		38041360	39.90	.2362			6.0	3804060	66.80	.3680		U		38043680	123.45
.1378			3.5	3804035	37.15	.2380		B		38042380	73.45	.3701			9.4	3804094	130.30
.1405		28		38041405	40.45	.2402			6.1	3804061	73.45	.3740			9.5	3804095	124.20
.1406	9/64			380409	41.75	.2420		C		38042420	73.45	.3750	3/8			380424	113.65
.1417			3.6	3804036	42.30	.2441			6.2	3804062	73.45	.3770		V		38043770	147.50
.1440		27		38041440	42.30	.2460		D		38042460	73.45	.3780			9.6	3804096	155.10

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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".

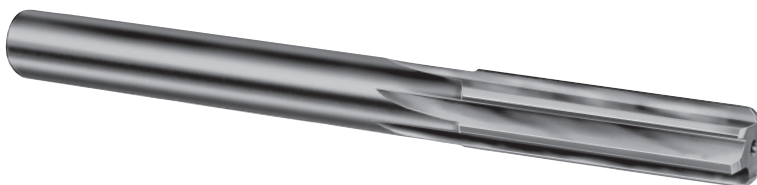
Shank diameter tolerance: +.0000"/-.0010".

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	\$35.70	.0520	38040520	\$34.90	.0760	38040760	\$35.00	.1000	38041000	\$38.90	.1240	38041240	\$41.90
.0285	38040285	37.70	.0525	38040525	36.70	.0765	38040765	36.75	.1005	38041005	38.90	.1245	38041245	41.90
.0290	38040290	37.70	.0530	38040530	36.70	.0770	38040770	36.75	.1010	38041010	38.90	.1250	380408	36.75
.0295	38040295	35.70	.0535	38040535	36.70	.0775	38040775	36.75	.1015	38041015	37.05	.1255	38041255	41.90
.0300	38040300	37.70	.0540	38040540	36.70	.0780	38040780	36.75	.1020	38041020	39.20	.1260	3804032	39.85
.0305	38040305	37.70	.0545	38040545	36.70	.0785	38040785	35.10	.1025	38041025	39.35	.1265	38041265	42.05
.0310	38040310	35.70	.0550	38040550	34.90	.0790	38040790	36.90	.1030	38041030	39.35	.1270	38041270	42.05
.0315	3804008	35.70	.0555	38040555	36.70	.0795	38040795	36.90	.1035	38041035	39.35	.1275	38041275	42.05
.0320	38040320	35.70	.0560	38040560	36.70	.0800	38040800	36.90	.1040	38041040	39.35	.1280	38041280	39.90
.0325	38040325	37.70	.0565	38040565	36.70	.0805	38040805	36.90	.1045	38041045	39.35	.1285	38041285	39.90
.0330	38040330	35.70	.0570	38040570	36.70	.0810	38040810	35.10	.1050	38041050	39.35	.1290	38041290	42.05
.0335	38040335	35.70	.0575	38040575	36.70	.0815	38040815	37.05	.1055	38041055	39.35	.1295	38041295	42.05
.0340	38040340	36.40	.0580	38040580	36.70	.0820	38040820	35.25	.1060	38041060	39.35	.1300	38041300	42.05
.0345	38040345	36.40	.0585	38040585	36.70	.0825	38040825	37.05	.1065	38041065	37.40	.1305	38041305	42.05
.0350	38040350	34.65	.0590	38040590	31.95	.0830	38040830	37.05	.1070	38041070	39.90	.1310	38041310	42.05
.0355	38040355	36.40	.0595	38040595	33.75	.0835	38040835	37.05	.1075	38041075	39.90	.1315	38041315	42.05
.0360	38040360	34.65	.0600	38040600	36.50	.0840	38040840	37.05	.1080	38041080	39.90	.1320	38041320	42.05
.0365	38040365	36.40	.0605	38040605	36.50	.0845	38040845	37.05	.1085	38041085	40.45	.1325	38041325	42.05
.0370	38040370	34.65	.0610	38040610	34.60	.0850	38040850	37.05	.1090	38041090	40.45	.1330	38041330	42.05
.0375	38040375	36.40	.0615	38040615	36.50	.0855	38040855	37.05	.1095	38041095	40.45	.1335	38041335	42.05
.0380	38040380	34.65	.0620	38040620	36.50	.0860	38040860	35.25	.1100	38041100	38.50	.1340	38041340	42.05
.0385	38040385	36.40	.0625	380404	31.85	.0865	38040865	37.05	.1105	38041105	41.05	.1345	38041345	42.05
.0390	38040390	34.65	.0630	3804016	34.60	.0870	38040870	37.05	.1110	38041110	39.20	.1350	38041350	42.05
.0395	38040395	36.40	.0635	38040635	34.60	.0875	38040875	37.05	.1115	38041115	41.75	.1355	38041355	42.05
.0400	38040400	34.65	.0640	38040640	36.50	.0880	38040880	37.05	.1120	38041120	41.75	.1360	38041360	39.90
.0405	38040405	36.40	.0645	38040645	36.50	.0885	38040885	37.05	.1125	38041125	41.75	.1365	38041365	42.05
.0410	38040410	34.65	.0650	38040650	36.75	.0890	38040890	35.85	.1130	38041130	39.70	.1370	38041370	42.05
.0415	38040415	36.40	.0655	38040655	36.75	.0895	38040895	37.90	.1135	38041135	41.75	.1375	38041375	42.05
.0420	38040420	34.65	.0660	38040660	36.75	.0900	38040900	37.90	.1140	38041140	41.75	.1380	38041380	42.80
.0425	38040425	36.40	.0665	38040665	36.75	.0905	38040905	37.90	.1145	38041145	41.75	.1385	38041385	42.80
.0430	38040430	34.65	.0670	38040670	35.00	.0910	38040910	38.05	.1150	38041150	41.75	.1390	38041390	42.80
.0435	38040435	36.70	.0675	38040675	36.75	.0915	38040915	38.05	.1155	38041155	41.75	.1395	38041395	42.80
.0440	38040440	36.70	.0680	38040680	36.75	.0920	38040920	38.05	.1160	38041160	39.70	.1400	38041400	42.80
.0445	38040445	36.70	.0685	38040685	36.75	.0925	38040925	36.00	.1165	38041165	41.75	.1405	38041405	40.45
.0450	38040450	36.70	.0690	38040690	36.75	.0930	38040930	38.05	.1170	38041170	41.75	.1410	38041410	44.45
.0455	38040455	36.70	.0695	38040695	36.75	.0935	38040935	36.00	.1175	38041175	41.75	.1415	38041415	44.45
.0460	38040460	36.70	.0700	38040700	35.00	.0940	38040940	38.05	.1180	38041180	41.75	.1420	38041420	44.45
.0465	38040465	34.90	.0705	38040705	36.75	.0945	3804024	36.00	.1185	38041185	41.90	.1425	38041425	44.45
.0470	38040470	36.70	.0710	38040710	36.75	.0950	38040950	38.50	.1190	38041190	41.90	.1430	38041430	44.45
.0475	38040475	36.70	.0715	38040715	36.75	.0955	38040955	38.50	.1195	38041195	41.90	.1435	38041435	44.45
.0480	38040480	36.70	.0720	38040720	36.75	.0960	38040960	36.75	.1200	38041200	39.85	.1440	38041440	42.30
.0485	38040485	36.70	.0725	38040725	36.75	.0965	38040965	36.75	.1205	38041205	41.90	.1445	38041445	44.65
.0490	38040490	36.70	.0730	38040730	35.00	.0970	38040970	38.50	.1210	38041210	41.90	.1450	38041450	44.75
.0495	38040495	36.70	.0735	38040735	36.75	.0975	38040975	38.50	.1215	38041215	41.90	.1455	38041455	44.75
.0500	38040500	36.70	.0740	38040740	36.75	.0980	38040980	36.75	.1220	3804031	39.85	.1460	38041460	45.95
.0505	38040505	36.70	.0745	38040745	36.75	.0985	38040985	38.90	.1225	38041225	41.90	.1465	38041465	45.95
.0510	38040510	36.70	.0750	38040750	36.75	.0990	38040990	38.90	.1230	38041230	41.90	.1470	38041470	43.55
.0515	38040515	36.70	.0755	38040755	36.75	.0995	38040995	37.05	.1235	38041235	41.90	.1475	38041475	45.95

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": $\pm .0003$ " / $-.0000$ ".

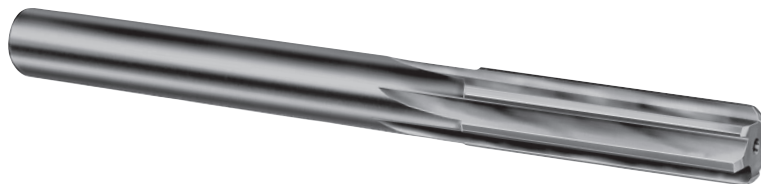
Shank diameter tolerance: $\pm .0000$ " / $-.0010$ ".

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	\$46.00	.1720	38041720	\$53.35	.1960	38041960	\$59.30	.2200	38042200	\$72.25	.2440	38042440	\$77.15
.1485	38041485	46.00	.1725	38041725	53.35	.1965	38041965	62.10	.2205	38042205	68.55	.2445	38042445	77.15
.1490	38041490	46.00	.1730	38041730	50.75	.1970	38041970	62.75	.2210	38042210	68.55	.2450	38042450	77.15
.1495	38041495	43.80	.1735	38041735	54.10	.1975	38041975	62.75	.2215	38042215	75.10	.2455	38042455	77.15
.1500	38041500	46.00	.1740	38041740	54.10	.1980	38041980	62.75	.2220	38042220	75.10	.2460	38042460	73.45
.1505	38041505	46.00	.1745	38041745	54.10	.1985	38041985	62.75	.2225	38042225	75.10	.2465	38042465	77.15
.1510	38041510	46.00	.1750	38041750	54.10	.1990	38041990	59.60	.2230	38042230	75.10	.2470	38042470	77.15
.1515	38041515	46.00	.1755	38041755	54.70	.1995	38041995	64.65	.2235	38042235	75.10	.2475	38042475	77.15
.1520	38041520	43.80	.1760	38041760	54.70	.2000	38042000	64.65	.2240	38042240	75.10	.2480	3804063	73.45
.1525	38041525	48.00	.1765	38041765	54.70	.2005	38042005	64.65	.2245	38042245	75.10	.2485	38042485	77.15
.1530	38041530	48.00	.1770	38041770	52.00	.2010	38042010	61.50	.2250	38042250	75.10	.2490	38042490	77.15
.1535	3804039	45.65	.1775	38041775	54.85	.2015	38042015	64.65	.2255	38042255	75.10	.2495	38042495	77.15
.1540	38041540	45.65	.1780	38041780	54.85	.2020	38042020	64.65	.2260	38042260	75.10	.2500	380416	66.80
.1545	38041545	48.00	.1785	38041785	54.85	.2025	38042025	64.65	.2265	38042265	75.90	.2505	38042505	77.15
.1550	38041550	48.00	.1790	38041790	54.85	.2030	38042030	64.65	.2270	38042270	75.90	.2510	38042510	77.15
.1555	38041555	45.65	.1795	38041795	54.85	.2035	38042035	64.65	.2275	38042275	75.90	.2515	38042515	77.15
.1560	38041560	48.00	.1800	38041800	52.25	.2040	38042040	61.50	.2280	38042280	72.05	.2520	3804064	80.95
.1565	38041565	49.70	.1805	38041805	55.20	.2045	38042045	64.65	.2285	38042285	75.90	.2525	38042525	80.95
.1570	38041570	47.20	.1810	38041810	55.30	.2050	38042050	64.65	.2290	38042290	75.90	.2530	38042530	77.15
.1575	3804040	43.10	.1815	38041815	55.60	.2055	38042055	61.50	.2295	38042295	75.90	.2535	38042535	85.20
.1580	38041580	50.75	.1820	38041820	53.00	.2060	38042060	64.65	.2300	38042300	75.90	.2540	38042540	85.20
.1585	38041585	50.75	.1825	38041825	55.95	.2065	38042065	64.65	.2305	38042305	75.90	.2545	38042545	85.20
.1590	38041590	48.40	.1830	38041830	55.95	.2070	38042070	64.65	.2310	38042310	75.90	.2550	38042550	85.20
.1595	38041595	51.55	.1835	38041835	56.10	.2075	38042075	64.65	.2315	38042315	75.90	.2555	38042555	85.20
.1600	38041600	51.55	.1840	38041840	56.10	.2080	38042080	64.65	.2320	38042320	75.90	.2560	38042560	85.20
.1605	38041605	51.55	.1845	38041845	56.10	.2085	38042085	64.65	.2325	38042325	75.90	.2565	38042565	85.20
.1610	38041610	48.95	.1850	3804047	53.35	.2090	38042090	64.65	.2330	38042330	75.90	.2570	38042570	80.90
.1615	38041615	51.55	.1855	38041855	59.00	.2095	38042095	64.65	.2335	38042335	75.90	.2575	38042575	85.20
.1620	38041620	51.55	.1860	38041860	59.00	.2100	38042100	64.65	.2340	38042340	72.05	.2580	38042580	85.20
.1625	38041625	51.55	.1865	38041865	59.00	.2105	38042105	64.65	.2345	38042345	75.90	.2585	38042585	85.20
.1630	38041630	51.55	.1870	38041870	56.25	.2110	38042110	64.65	.2350	38042350	75.90	.2590	38042590	85.20
.1635	38041635	51.70	.1875	380412	51.20	.2115	38042115	64.65	.2355	38042355	75.90	.2595	38042595	85.20
.1640	38041640	51.55	.1880	38041880	59.15	.2120	38042120	64.65	.2360	38042360	75.90	.2600	38042600	85.20
.1645	38041645	51.55	.1885	38041885	59.15	.2125	38042125	64.65	.2365	38042365	77.15	.2605	38042605	85.20
.1650	38041650	51.55	.1890	3804048	56.25	.2130	38042130	61.50	.2370	38042370	77.15	.2610	38042610	80.90
.1655	38041655	51.55	.1895	38041895	59.80	.2135	38042135	64.65	.2375	38042375	77.15	.2615	38042615	85.20
.1660	38041660	49.25	.1900	38041900	59.80	.2140	38042140	64.65	.2380	38042380	73.45	.2620	38042620	85.20
.1665	38041665	52.25	.1905	38041905	59.80	.2145	38042145	64.65	.2385	38042385	77.15	.2625	38042625	85.20
.1670	38041670	52.25	.1910	38041910	56.90	.2150	38042150	64.65	.2390	38042390	77.15	.2630	38042630	85.20
.1675	38041675	52.25	.1915	38041915	59.95	.2155	38042155	64.65	.2395	38042395	77.15	.2635	38042635	85.20
.1680	38041680	52.25	.1920	38041920	59.95	.2160	38042160	64.65	.2400	38042400	77.15	.2640	38042640	85.20
.1685	38041685	52.25	.1925	38041925	59.95	.2165	3804055	56.25	.2405	38042405	77.15	.2645	38042645	85.20
.1690	38041690	52.25	.1930	38041930	60.55	.2170	38042170	64.65	.2410	38042410	77.15	.2650	38042650	85.20
.1695	38041695	49.80	.1935	38041935	57.30	.2175	38042175	64.65	.2415	38042415	77.15	.2655	38042655	85.20
.1700	38041700	53.35	.1940	38041940	60.55	.2180	38042180	64.65	.2420	38042420	73.45	.2660	38042660	80.90
.1705	38041705	53.35	.1945	38041945	60.55	.2185	38042185	61.50	.2425	38042425	77.15	.2665	38042665	85.20
.1710	38041710	53.35	.1950	38041950	62.10	.2190	38042190	72.25	.2430	38042430	77.15	.2670	38042670	85.20
.1715	38041715	53.35	.1955	38041955	62.10	.2195	38042195	72.25	.2435	38042435	77.15	.2675	38042675	85.20

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".

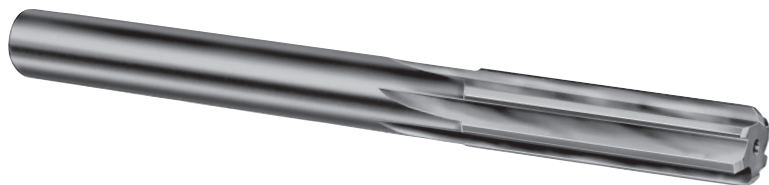
Shank diameter tolerance: +.0000"/-.0010".

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	\$85.20	.2920	38042920	\$99.80	.3160	38043160	\$103.80	.3400	38043400	\$126.65	.3640	38043640	\$129.85
.2685	38042685	85.20	.2925	38042925	99.80	.3165	38043165	110.55	.3405	38043405	126.65	.3645	38043645	129.85
.2690	38042690	85.20	.2930	38042930	99.80	.3170	38043170	110.55	.3410	38043410	126.65	.3650	38043650	129.85
.2695	38042695	85.20	.2935	38042935	99.80	.3175	38043175	110.55	.3415	38043415	126.65	.3655	38043655	129.85
.2700	38042700	85.20	.2940	38042940	99.80	.3180	38043180	110.55	.3420	38043420	126.65	.3660	38043660	129.85
.2705	38042705	85.20	.2945	38042945	99.80	.3185	38043185	110.55	.3425	3804087	126.35	.3665	38043665	129.85
.2710	38042710	85.20	.2950	38042950	94.90	.3190	38043190	110.55	.3430	38043430	126.65	.3670	38043670	129.85
.2715	38042715	85.20	.2955	38042955	99.80	.3195	38043195	110.55	.3435	38043435	126.65	.3675	38043675	129.85
.2720	38042720	80.90	.2960	38042960	99.80	.3200	38043200	110.55	.3440	38043440	126.90	.3680	38043680	123.45
.2725	38042725	85.20	.2965	38042965	99.80	.3205	38043205	110.55	.3445	38043445	126.90	.3685	38043685	131.10
.2730	38042730	85.20	.2970	38042970	103.80	.3210	38043210	110.55	.3450	38043450	126.90	.3690	38043690	131.40
.2735	38042735	85.20	.2975	38042975	103.80	.3215	38043215	110.55	.3455	38043455	126.90	.3695	38043695	131.10
.2740	38042740	85.20	.2980	38042980	103.80	.3220	38043220	110.55	.3460	38043460	126.90	.3700	38043700	131.10
.2745	38042745	85.20	.2985	38042985	103.80	.3225	38043225	110.55	.3465	3804088	126.90	.3705	38043705	131.10
.2750	38042750	85.20	.2990	38042990	103.80	.3230	38043230	105.05	.3470	38043470	126.90	.3710	38043710	131.10
.2755	38042755	85.20	.2995	38042995	103.80	.3235	38043235	110.55	.3475	38043475	126.90	.3715	38043715	131.10
.2760	38042760	85.20	.3000	38043000	103.80	.3240	38043240	126.65	.3480	38043480	120.80	.3720	38043720	131.10
.2765	38042765	85.20	.3005	38043005	103.80	.3245	38043245	126.65	.3485	38043485	126.90	.3725	38043725	131.10
.2770	38042770	80.90	.3010	38043010	103.80	.3250	38043250	126.65	.3490	38043490	126.90	.3730	38043730	131.10
.2775	38042775	85.20	.3015	38043015	103.80	.3255	38043255	126.65	.3495	38043495	126.90	.3735	38043735	131.10
.2780	38042780	92.15	.3020	38043020	98.85	.3260	38043260	126.65	.3500	38043500	126.90	.3740	3804095	124.20
.2785	38042785	92.15	.3025	38043025	103.80	.3265	38043265	126.65	.3505	38043505	126.90	.3745	38043745	131.10
.2790	38042790	92.15	.3030	38043030	103.80	.3270	38043270	126.65	.3510	38043510	126.90	.3750	380424	113.65
.2795	3804071	92.10	.3035	38043035	103.80	.3275	38043275	126.65	.3515	38043515	126.90	.3755	38043755	155.35
.2800	38042800	92.15	.3040	38043040	103.80	.3280	38043280	126.65	.3520	38043520	126.90	.3760	38043760	155.50
.2805	38042805	92.15	.3045	38043045	103.80	.3285	38043285	126.65	.3525	38043525	126.90	.3765	38043765	155.35
.2810	38042810	87.65	.3050	38043050	103.80	.3290	38043290	126.65	.3530	38043530	126.90	.3770	38043770	147.50
.2815	38042815	92.15	.3055	38043055	103.80	.3295	38043295	126.65	.3535	38043535	126.90	.3775	38043775	155.35
.2820	38042820	99.80	.3060	38043060	103.80	.3300	38043300	126.65	.3540	38043540	126.90	.3780	3804096	155.10
.2825	38042825	99.80	.3065	38043065	103.80	.3305	38043305	126.65	.3545	38043545	126.90	.3785	38043785	155.35
.2830	38042830	99.80	.3070	38043070	103.80	.3310	38043310	122.20	.3550	38043550	127.50	.3790	38043790	155.35
.2835	3804072	99.50	.3075	38043075	103.80	.3315	38043315	126.65	.3555	38043555	127.50	.3795	38043795	155.35
.2840	38042840	99.80	.3080	38043080	103.80	.3320	38043320	120.30	.3560	38043560	127.50	.3800	38043800	155.35
.2845	38042845	99.80	.3085	38043085	103.80	.3325	38043325	126.65	.3565	38043565	127.50	.3805	38043805	155.35
.2850	38042850	99.80	.3090	38043090	103.80	.3330	38043330	126.65	.3570	38043570	127.50	.3810	38043810	155.35
.2855	38042855	99.80	.3095	38043095	103.80	.3335	38043335	126.65	.3575	38043575	127.50	.3815	38043815	155.35
.2860	38042860	99.80	.3100	38043100	103.80	.3340	38043340	126.65	.3580	38043580	121.30	.3820	38043820	155.35
.2865	38042865	99.80	.3105	38043105	103.80	.3345	38043345	126.65	.3585	38043585	127.50	.3825	38043825	155.35
.2870	38042870	99.80	.3110	3804079	103.80	.3350	38043350	126.65	.3590	38043590	128.45	.3830	38043830	155.35
.2875	38042875	99.80	.3115	38043115	103.80	.3355	38043355	126.65	.3595	38043595	129.85	.3835	38043835	155.35
.2880	38042880	99.80	.3120	38043120	103.80	.3360	38043360	126.65	.3600	38043600	129.85	.3840	38043840	155.35
.2885	38042885	99.80	.3125	380420	90.40	.3365	38043365	126.65	.3605	38043605	129.85	.3845	38043845	155.35
.2890	38042890	99.80	.3130	38043130	103.80	.3370	38043370	126.65	.3610	38043610	129.85	.3850	38043850	155.35
.2895	38042895	99.80	.3135	38043135	103.80	.3375	38043375	126.65	.3615	38043615	129.85	.3855	38043855	155.35
.2900	38042900	94.90	.3140	38043140	103.80	.3380	38043380	126.65	.3620	38043620	129.85	.3860	38043860	147.90
.2905	38042905	99.80	.3145	38043145	103.80	.3385	38043385	126.65	.3625	38043625	129.85	.3865	38043865	163.30
.2910	38042910	99.80	.3150	3804080	90.40	.3390	38043390	120.30	.3630	38043630	129.85	.3870	38043870	163.30
.2915	38042915	99.80	.3155	38043155	103.80	.3395	38043395	126.65	.3635	38043635	129.85	.3875	38043875	163.30

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	\$163.30	.4135	38044135	\$167.70	.4390	38044390	\$183.65	.4645	38044645	\$183.65	.4910	38044910	\$199.80
.3885	38043885	163.30	.4140	38044140	167.70	.4395	38044395	183.65	.4650	38044650	183.65	.4915	38044915	199.80
.3890	38043890	163.30	.4145	38044145	167.70	.4400	38044400	183.65	.4655	38044655	183.65	.4920	38044920	199.80
.3895	38043895	163.30	.4150	38044150	167.70	.4405	38044405	183.65	.4660	38044660	183.65	.4925	38044925	199.80
.3900	38043900	163.30	.4155	38044155	167.70	.4410	38044410	183.65	.4665	38044665	183.65	.4930	38044930	199.80
.3905	38043905	163.30	.4160	38044160	167.70	.4415	38044415	183.65	.4670	38044670	183.65	.4935	38044935	199.80
.3910	38043910	163.30	.4165	38044165	167.70	.4420	38044420	183.65	.4675	38044675	183.65	.4940	38044940	199.80
.3915	38043915	163.30	.4170	38044170	167.70	.4425	38044425	183.65	.4680	38044680	183.65	.4945	38044945	199.80
.3920	38043920	163.30	.4175	38044175	167.70	.4430	38044430	183.65	.4685	3804119	183.65	.4950	38044950	199.80
.3925	38043925	163.30	.4180	38044180	167.70	.4435	38044435	183.65	.4690	38044690	183.65	.4955	38044955	199.80
.3930	38043930	163.30	.4185	38044185	167.70	.4440	38044440	183.65	.4695	38044695	183.65	.4960	38044960	199.80
.3935	38043935	163.30	.4190	38044190	167.70	.4445	38044445	183.65	.4700	38044700	183.65	.4965	38044965	199.80
.3940	38043940	163.30	.4195	38044195	167.70	.4450	38044450	183.65	.4705	38044705	183.65	.4970	38044970	199.80
.3945	38043945	163.30	.4200	38044200	167.70	.4455	38044455	183.65	.4710	38044710	183.65	.4975	38044975	199.80
.3950	38043950	163.30	.4205	38044205	167.70	.4460	38044460	183.65	.4715	38044715	183.65	.4980	38044980	199.80
.3955	38043955	163.30	.4210	38044210	167.70	.4465	38044465	183.65	.4720	38044720	183.65	.4985	38044985	199.80
.3960	38043960	163.30	.4215	38044215	167.70	.4470	38044470	183.65	.4725	38044725	199.80	.4990	38044990	199.80
.3965	38043965	163.30	.4220	38044220	167.70	.4475	38044475	183.65	.4730	38044730	199.80	.4995	38044995	189.00
.3970	38043970	155.50	.4225	38044225	167.70	.4480	38044480	183.65	.4735	38044735	199.80	.5000	380432	189.00
.3975	38043975	163.30	.4230	38044230	167.70	.4485	38044485	183.65	.4740	38044740	199.80	.5005	38045005	237.20
.3980	38043980	163.30	.4235	38044235	167.70	.4490	38044490	183.65	.4745	38044745	199.80	.5010	38045010	237.20
.3985	38043985	163.30	.4240	38044240	167.70	.4495	38044495	183.65	.4750	38044750	199.80	.5015	38045015	237.20
.3990	38043990	163.30	.4245	38044245	167.70	.4500	38044500	183.65	.4755	38044755	199.80	.5020	38045020	237.20
.3995	38043995	163.30	.4250	38044250	167.70	.4505	38044505	183.65	.4760	38044760	199.80	.5025	38045025	237.20
.4000	38044000	163.30	.4255	38044255	167.70	.4510	38044510	183.65	.4765	38044765	199.80	.5030	38045030	237.20
.4005	38044005	163.30	.4260	38044260	167.70	.4515	38044515	183.65	.4770	38044770	199.80	.5035	38045035	237.20
.4010	38044010	163.30	.4265	38044265	167.70	.4520	38044520	183.65	.4775	38044775	199.80	.5040	38045040	237.20
.4015	38044015	163.30	.4270	38044270	167.70	.4525	38044525	183.65	.4780	38044780	199.80	.5045	38045045	237.20
.4020	38044020	163.30	.4275	38044275	167.70	.4530	38044530	183.65	.4785	38044785	199.80	.5050	38045050	237.20
.4025	38044025	163.30	.4280	38044280	167.70	.4535	38044535	183.65	.4790	38044790	199.80	.5055	38045055	237.20
.4030	38044030	163.30	.4285	38044285	167.70	.4540	38044540	183.65	.4795	38044795	199.80	.5060	38045060	237.20
.4035	38044035	163.30	.4290	38044290	167.70	.4545	38044545	183.65	.4800	38044800	199.80	.5065	38045065	237.20
.4040	38044040	155.50	.4295	38044295	167.70	.4550	38044550	183.65	.4805	38044805	199.80	.5070	38045070	237.20
.4045	38044045	163.30	.4300	38044300	167.70	.4555	38044555	183.65	.4810	38044810	199.80	.5075	38045075	237.20
.4050	38044050	163.30	.4305	38044305	167.70	.4560	38044560	183.65	.4815	38044815	199.80	.5080	38045080	237.20
.4055	3804103	163.30	.4310	38044310	167.70	.4565	38044565	183.65	.4820	38044820	199.80	.5085	38045085	237.20
.4060	38044060	163.30	.4315	38044315	167.70	.4570	38044570	183.65	.4835	38044835	199.80	.5090	38045090	237.20
.4065	38044065	163.30	.4320	38044320	167.70	.4575	38044575	183.65	.4840	38044840	199.80	.5095	38045095	237.20
.4070	38044070	163.30	.4325	38044325	167.70	.4580	38044580	183.65	.4845	38044845	199.80	.5100	38045100	237.20
.4075	38044075	163.30	.4330	38044330	167.70	.4585	38044585	183.65	.4850	38044850	199.80	.5105	38045105	237.20
.4080	38044080	163.30	.4335	38044335	167.70	.4590	38044590	183.65	.4855	38044855	199.80	.5110	38045110	237.20
.4085	38044085	163.30	.4340	38044340	167.70	.4595	38044595	183.65	.4860	38044860	199.80	.5115	38045115	237.20
.4090	38044090	163.30	.4345	38044345	167.70	.4600	38044600	183.65	.4865	38044865	199.80	.5120	38045120	237.20
.4095	38044095	163.30	.4350	38044350	167.70	.4605	38044605	183.65	.4870	38044870	199.80	.5125	38045125	237.20
.4100	38044100	163.30	.4355	38044355	167.70	.4610	38044610	183.65	.4875	38044875	199.80	.5130	38045130	237.20
.4105	38044105	163.30	.4360	38044360	167.70	.4615	38044615	183.65	.4880	38044880	199.80	.5135	38045135	237.20
.4110	38044110	163.30	.4365	38044365	167.70	.4620	38044620	183.65	.4885	38044885	199.80	.5140	38045140	237.20
.4115	38044115	163.30	.4370	3804111	167.70	.4625	38044625	183.65	.4890	38044890	199.80	.5145	38045145	237.20
.4120	38044120	163.30	.4375	380428	159.70	.4630	38044630	183.65	.4895	38044895	199.80	.5150	38045150	237.20
.4125	38044125	163.30	.4380	38044380	183.65	.4635	38044635	183.65	.4900	38044900	199.80	-	-	-
.4130	38044130	155.50	.4385	38044385	183.65	.4640	38044640	183.65	.4905	38044905	199.80	-	-	-

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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	\$89.70	.1560 - .1769	\$143.20	\$116.50	\$107.40	\$103.15	\$98.55	\$94.95
.1719	11/64	.151	4	1	1/2	3 1/4	34011719	89.70	-	-	-	-	-	-	-
.1875	3/16	11/64	4	1 1/8	1/2	3 1/2	340106	86.70	.1770 - .2040	138.75	112.70	103.95	99.70	95.45	91.90
.2031	13/64	11/64	4	1 1/8	1/2	3 5/8	34012031	87.30	-	-	-	-	-	-	-
.2188	7/32	13/64	4	1 1/4	1/2	3 3/4	340107	86.70	.2041 - .2210	138.75	112.70	103.95	99.70	95.45	91.90
.2344	15/64	7/32	4	1 1/2	1/2	3 7/8	34012344	87.30	.2211 - .2380	139.45	113.45	104.45	100.40	95.95	92.35
.2500	1/4	15/64	4	1 1/2	1/2	4	340108	86.70	.2381 - .2530	138.75	112.70	103.95	99.70	95.45	91.90
.2656	17/64	15/64	4	1 1/2	1/2	4 1/8	34012656	88.40	-	-	-	-	-	-	-
.2812	9/32	15/64	4	1 1/2	1/2	4 1/4	340109	87.90	.2531 - .2840	139.95	113.90	105.25	101.00	96.50	93.05
.2969	19/64	9/32	4	1 1/2	1/2	4 3/8	34012969	88.40	-	-	-	-	-	-	-
.3125	5/16	9/32	4	1 1/2	1/2	4 1/2	340110	87.90	.2841 - .3150	139.95	113.90	105.25	101.00	96.50	93.05
.3281	21/64	9/32	4	1 1/2	5/8	4 5/8	34013281	91.05	-	-	-	-	-	-	-
.3438	11/32	9/32	4	1 1/2	5/8	4 3/4	340111	90.05	.3151 - .3470	142.05	115.95	107.30	103.15	98.65	95.10
.3594	23/64	5/16	4	1 3/4	5/8	4 7/8	34013594	91.05	-	-	-	-	-	-	-
.3750	3/8	5/16	4	1 3/4	5/8	5	340112	82.70	.3471 - .3780	130.40	106.45	98.35	94.60	90.60	87.30
.3906	25/64	5/16	4	1 3/4	5/8	5 1/8	34013906	94.50	-	-	-	-	-	-	-
.4062	13/32	5/16	4	1 3/4	5/8	5 1/4	340113	93.00	.3781 - .4090	145.00	118.95	110.15	106.15	101.50	98.05
.4219	27/64	3/8	4	1 3/4	5/8	5 3/8	34014219	94.50	-	-	-	-	-	-	-
.4375	7/16	3/8	4	1 3/4	5/8	5 1/2	340114	97.05	.4091 - .4410	149.10	123.00	114.20	110.05	105.55	102.10
.4531	29/64	3/8	4	1 3/4	5/8	5 5/8	34014531	100.80	-	-	-	-	-	-	-
.4688	15/32	3/8	4	1 3/4	5/8	5 3/4	340115	101.35	.4411 - .4720	153.40	127.30	118.60	114.45	110.00	106.45
.4844	31/64	7/16	6	2	5/8	5 7/8	34014844	107.40	-	-	-	-	-	-	-
.5000	1/2	7/16	6	2	5/8	6	340116	113.85	.4721 - .5030	171.10	142.35	132.85	128.30	123.25	119.40
.5156	33/64	7/16	6	2	5/8	6 5/8	34015156	120.95	-	-	-	-	-	-	-
.5312	17/32	7/16	6	2	5/8	6 5/8	340117	120.95	.5031 - .5340	178.20	149.45	139.95	135.35	130.45	126.65
.5469	35/64	7/16	6	2	5/8	6 5/8	34015469	120.95	-	-	-	-	-	-	-
.5625	9/16	7/16	6	2	5/8	6 5/8	340118	120.95	.5341 - .5660	178.20	149.45	139.95	135.35	130.45	126.65
.5781	37/64	7/16	6	2	5/8	6 5/8	34015781	124.25	-	-	-	-	-	-	-
.5938	19/32	7/16	6	2	5/8	7 1/8	340119	124.25	.5661 - .5970	181.75	153.00	143.40	138.75	133.75	130.10
.6094	39/64	9/16	6	2 1/4	5/8	7 1/8	34016094	124.25	-	-	-	-	-	-	-
.6250	5/8	9/16	6	2 1/4	5/8	7 1/8	340120	124.25	.5971 - .6280	181.75	153.00	143.40	138.75	133.75	130.10
.6406	41/64	9/16	6	2 1/4	5/8	7 1/8	34016406	125.85	-	-	-	-	-	-	-
.6562	21/32	9/16	6	2 1/4	5/8	7 1/8	340121	125.85	.6281 - .6590	183.20	154.55	144.85	140.25	135.35	131.45
.6719	43/64	9/16	6	2 1/4	5/8	7 5/8	34016719	125.85	-	-	-	-	-	-	-
.6875	11/16	9/16	6	2 1/4	5/8	7 5/8	340122	125.85	.6591 - .6910	183.20	154.55	144.85	140.25	135.35	131.45
.7031	45/64	9/16	6	2 1/4	5/8	7 5/8	34017031	130.25	-	-	-	-	-	-	-
.7188	23/32	9/16	6	2 1/4	5/8	7 5/8	340123	130.25	.6911 - .7220	187.50	158.90	149.25	144.65	139.75	135.80
.7344	47/64	5/8	6	2 1/2	3/4	7 5/8	34017344	130.25	-	-	-	-	-	-	-
.7500	3/4	5/8	6	2 1/2	3/4	8	340124	130.25	.7221 - .7530	187.50	158.90	149.25	144.65	139.75	135.80

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 recieved 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	
	1.5001" AND UP	+.0004"/-.0000"		7.00	4.20	1.40		-.0005"/-.0015"	

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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	\$87.30
.1885	1 ¹ / ₆₄	4	1 1/8	1/2	3 1/2	347919	87.30
.2490	1 ⁵ / ₆₄	4	1 1/2	1/2	4	347924	87.30
.2510	1 ⁵ / ₆₄	4	1 1/2	1/2	4	347925	87.30
.3115	9/32	4	1 1/2	1/2	4 1/2	347931	88.40
.3135	9/32	4	1 1/2	1/2	4 1/2	347932	88.40
.3740	5/16	4	1 3/4	5/8	5	347937	91.05
.3760	5/16	4	1 3/4	5/8	5	347938	91.05
.4365	3/8	4	1 3/4	5/8	5 1/2	347943	100.80
.4385	3/8	4	1 3/4	5/8	5 1/2	347944	100.80
.4990	7/16	6	2	5/8	6	347949	107.40
.5010	7/16	6	2	5/8	6	347950	107.40

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	\$70.15
.1885	1 ¹ / ₆₄	4	1 1/8	1/2	4 1/2	347819	70.15
.2490	1 ⁵ / ₆₄	4	1 1/2	1/2	6	347824	70.15
.2510	1 ⁵ / ₆₄	4	1 1/2	1/2	6	347825	70.15
.3115	9/32	4	1 1/2	1/2	6	347831	71.65
.3135	9/32	4	1 1/2	1/2	6	347832	71.65
.3740	5/16	4	1 3/4	5/8	7	347837	74.35
.3760	5/16	4	1 3/4	5/8	7	347838	74.35
.4365	3/8	4	1 3/4	5/8	7	347843	83.10
.4385	3/8	4	1 3/4	5/8	7	347844	83.10
.4990	7/16	6	2	5/8	8	347849	91.05
.5010	7/16	6	2	5/8	8	347850	91.05
.6240	9/16	6	2 1/4	5/8	9	347862	109.25
.6260	9/16	6	2 1/4	5/8	9	347863	109.25
.7490	5/8	6	2 1/2	3/4	9 1/2	347874	115.05
.7510	5/8	6	2 1/2	3/4	9 1/2	347875	115.05
.8740	3/4	6	2 5/8	3/4	10	347886	122.25
.8760	3/4	6	2 5/8	3/4	10	347887	126.95
.9990	7/8	8	2 3/4	3/4	10 1/2	347898	150.75
1.0010	7/8	8	2 3/4	3/4	10 1/2	347899	144.50

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	\$87.30
.1870	1 ¹ / ₆₄	4	1 1/8	1/2	3 1/2	347718	87.30
.2480	1 ⁵ / ₆₄	4	1 1/2	1/2	4	347723	87.30
.2495	1 ⁵ / ₆₄	4	1 1/2	1/2	4	347724	87.30
.3105	9/32	4	1 1/2	1/2	4 1/2	347730	88.40
.3120	9/32	4	1 1/2	1/2	4 1/2	347731	88.40
.3730	5/16	4	1 3/4	5/8	5	347736	91.05
.3745	5/16	4	1 3/4	5/8	5	347737	91.05
.4355	3/8	4	1 3/4	5/8	5 1/2	347742	100.80
.4370	3/8	4	1 3/4	5/8	5 1/2	347743	100.80
.4980	7/16	6	2	5/8	6	347748	107.40
.4995	7/16	6	2	5/8	6	347749	107.40

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	\$70.15
.1870	1 ¹ / ₆₄	4	1 1/8	1/2	4 1/2	347618	70.15
.2480	1 ⁵ / ₆₄	4	1 1/2	1/2	6	347623	70.15
.2495	1 ⁵ / ₆₄	4	1 1/2	1/2	6	347624	70.15
.3105	9/32	4	1 1/2	1/2	6	347630	71.65
.3120	9/32	4	1 1/2	1/2	6	347631	71.65
.3730	5/16	4	1 3/4	5/8	7	347636	74.35
.3745	5/16	4	1 3/4	5/8	7	347637	74.35
.4355	3/8	4	1 3/4	5/8	7	347642	83.10
.4370	3/8	4	1 3/4	5/8	7	347643	83.10
.4980	7/16	6	2	5/8	8	347648	91.05
.4995	7/16	6	2	5/8	8	347649	91.05
CASED SET OF ABOVE 12 REAMERS						347600	875.05

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	\$60.80	.1560 - .1769	\$114.90	\$87.40	\$78.55	\$74.20	\$69.60	\$66.00
.1719	11/64	.151	4	1	1/2	4	34001719	60.80	-	-	-	-	-	-	-
.1875	3/16	11/64	4	1 1/8	1/2	4 1/2	340006	55.70	.1770 - .2040	107.75	81.70	73.10	68.75	64.40	60.85
.1875	3/16	11/64	4	1 1/4	1/2	5	340086	59.00	.1770 - .2040	111.05	85.00	76.50	72.15	67.70	64.15
.2031	13/64	11/64	4	1 1/8	1/2	4 1/2	34002031	59.00	-	-	-	-	-	-	-
.2188	7/32	13/64	4	1 1/4	1/2	5	340007	55.70	.2041 - .2210	107.75	81.70	73.10	68.75	64.40	60.85
.2344	15/64	7/32	4	1 1/2	1/2	6	34002344	59.00	.2211 - .2380	111.05	85.00	76.50	72.15	67.70	64.15
.2500	1/4	15/64	4	1 1/2	1/2	6	340008	55.70	.2381 - .2530	107.75	81.70	73.10	68.75	64.40	60.85
.2656	17/64	15/64	4	1 1/2	1/2	6	34002656	60.30	-	-	-	-	-	-	-
.2812	9/32	15/64	4	1 1/2	1/2	6	340009	56.95	.2531 - .2840	109.00	82.95	74.25	70.05	65.55	62.00
.2969	19/64	9/32	4	1 1/2	1/2	6	34002969	60.30	-	-	-	-	-	-	-
.3125	5/16	9/32	4	1 1/2	1/2	6	340010	56.95	.2841 - .3150	109.00	82.95	74.25	70.05	65.55	62.00
.3281	21/64	9/32	4	1 1/2	5/8	6	34003281	62.55	-	-	-	-	-	-	-
.3438	11/32	9/32	4	1 1/2	5/8	6	340011	58.95	.3151 - .3470	111.00	84.95	76.20	72.05	67.60	64.10
.3594	23/64	5/16	4	1 3/4	5/8	7	34003594	62.55	-	-	-	-	-	-	-
.3750	3/8	5/16	4	1 3/4	5/8	7	340012	58.95	.3471 - .3780	111.00	84.95	76.20	72.05	67.60	64.10
.3906	25/64	5/16	4	1 3/4	5/8	7	34003906	65.75	-	-	-	-	-	-	-
.4062	13/32	5/16	4	1 3/4	5/8	7	340013	61.85	.3781 - .4090	113.90	87.85	79.10	74.90	70.45	67.00
.4219	27/64	3/8	4	1 3/4	5/8	7	34004219	70.00	-	-	-	-	-	-	-
.4375	7/16	3/8	4	1 3/4	5/8	7	340014	66.05	.4091 - .4410	118.10	92.05	83.15	79.10	74.60	71.20
.4531	29/64	3/8	4	1 3/4	5/8	7	34004531	71.15	-	-	-	-	-	-	-
.4688	15/32	3/8	4	1 3/4	5/8	7	340015	67.00	.4411 - .4720	119.05	93.00	84.25	80.00	75.60	72.05
.4844	31/64	7/16	6	2	5/8	8	34004844	76.80	-	-	-	-	-	-	-
.5000	1/2	7/16	6	2	5/8	8	340016	79.65	.4721 - .5030	136.95	108.40	98.65	94.15	89.15	85.25
.5156	33/64	7/16	6	2	5/8	8	34005156	86.70	-	-	-	-	-	-	-
.5312	17/32	7/16	6	2	5/8	8	340017	86.70	.5031 - .5340	144.10	115.45	105.80	101.20	96.20	92.35
.5469	35/64	7/16	6	2	5/8	8	34005469	86.70	-	-	-	-	-	-	-
.5625	9/16	7/16	6	2	5/8	8	340018	86.70	.5341 - .5660	144.10	115.45	105.80	101.20	96.20	92.35
.5781	37/64	7/16	6	2	5/8	8	34005781	90.20	-	-	-	-	-	-	-
.5938	19/32	7/16	6	2	5/8	8	340019	90.20	.5661 - .5970	147.65	118.80	109.25	104.70	99.65	95.95
.6094	39/64	9/16	6	2 1/4	5/8	9	34006094	90.20	-	-	-	-	-	-	-
.6250	5/8	9/16	6	2 1/4	5/8	9	340020	90.20	.5971 - .6280	147.65	118.80	109.25	104.70	99.65	95.95
.6406	41/64	9/16	6	2 1/4	5/8	9	34006406	91.85	-	-	-	-	-	-	-
.6562	21/32	9/16	6	2 1/4	5/8	9	340021	91.85	.6281 - .6590	149.10	120.25	110.75	106.25	101.25	97.40
.6719	43/64	9/16	6	2 1/4	5/8	9	34006719	91.85	-	-	-	-	-	-	-
.6875	11/16	9/16	6	2 1/4	5/8	9	340022	91.85	.6591 - .6910	149.10	120.25	110.75	106.25	101.25	97.40
.7031	45/64	9/16	6	2 1/4	5/8	9	34007031	96.10	-	-	-	-	-	-	-
.7188	23/32	9/16	6	2 1/4	5/8	9	340023	96.10	.6911 - .7220	153.40	124.80	115.05	110.60	105.55	101.80
.7344	47/64	5/8	6	2 1/2	3/4	9 1/2	34007344	96.10	-	-	-	-	-	-	-
.7500	3/4	5/8	6	2 1/2	3/4	9 1/2	340024	96.10	.7221 - .7530	153.40	124.80	115.05	110.60	105.55	101.80

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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	\$99.25	-	-	-	-	-	-	-
.7812	$\frac{25}{32}$	$\frac{5}{8}$	6	2 1/2	$\frac{3}{4}$	9 1/2	340025	99.25	.7531 - .7840	\$156.50	\$127.85	\$118.25	\$113.75	\$108.75	\$104.85
.7969	$\frac{51}{64}$	$\frac{5}{8}$	6	2 1/2	$\frac{3}{4}$	9 1/2	34007969	99.25	-	-	-	-	-	-	-
.8125	$\frac{13}{16}$	$\frac{5}{8}$	6	2 1/2	$\frac{3}{4}$	9 1/2	340026	99.25	.7841 - .8160	156.50	127.85	118.25	113.75	108.75	104.85
.8281	$\frac{53}{64}$	$\frac{5}{8}$	6	2 1/2	$\frac{3}{4}$	9 1/2	34008281	103.25	-	-	-	-	-	-	-
.8438	$\frac{27}{32}$	$\frac{5}{8}$	6	2 1/2	$\frac{3}{4}$	9 1/2	340027	103.25	.8161 - .8470	160.60	131.85	122.25	117.65	112.70	108.85
.8594	$\frac{55}{64}$	$\frac{3}{4}$	6	2 5/8	$\frac{3}{4}$	10	34008594	103.25	-	-	-	-	-	-	-
.8750	$\frac{7}{8}$	$\frac{3}{4}$	6	2 5/8	$\frac{3}{4}$	10	340028	107.15	.8471 - .8780	166.55	136.80	126.95	122.20	116.90	112.90
.8906	$\frac{57}{64}$	$\frac{3}{4}$	6	2 5/8	$\frac{3}{4}$	10	34008906	124.80	-	-	-	-	-	-	-
.9062	$\frac{29}{32}$	$\frac{3}{4}$	6	2 5/8	$\frac{3}{4}$	10	340029	124.80	.8781 - .9090	184.25	154.45	144.55	139.80	134.60	130.60
.9219	$\frac{59}{64}$	$\frac{3}{4}$	8	2 5/8	$\frac{3}{4}$	10	34009219	124.80	-	-	-	-	-	-	-
.9375	$\frac{15}{16}$	$\frac{3}{4}$	8	2 5/8	$\frac{3}{4}$	10	340030	124.80	.9091 - .9410	184.25	154.45	144.55	139.80	134.60	130.60
.9531	$\frac{61}{64}$	$\frac{3}{4}$	8	2 5/8	$\frac{3}{4}$	10	34009531	130.75	-	-	-	-	-	-	-
.9688	$\frac{31}{32}$	$\frac{3}{4}$	8	2 5/8	$\frac{3}{4}$	10	340031	130.75	.9411 - .9720	190.30	160.50	150.70	145.85	140.65	136.65
.9844	$\frac{63}{64}$	$\frac{7}{8}$	8	2 3/4	$\frac{3}{4}$	10 1/2	34009844	130.75	-	-	-	-	-	-	-
1.0000	1	$\frac{7}{8}$	8	2 3/4	$\frac{3}{4}$	10 1/2	340032	130.75	.9721 - 1.0030	190.30	160.50	150.70	145.85	140.65	136.65
1.0625	$1 \frac{1}{16}$	$\frac{7}{8}$	8	2 3/4	$\frac{3}{4}$	10 1/2	340034	135.20	1.0031 - 1.0660	192.40	163.80	154.15	149.70	144.80	140.80
1.1250	$1 \frac{1}{8}$	$\frac{7}{8}$	8	2 7/8	$\frac{7}{8}$	11	340036	146.15	1.0661 - 1.1280	203.30	174.70	165.25	160.65	155.60	151.85
1.1875	$1 \frac{3}{16}$	1	8	2 7/8	$\frac{7}{8}$	11	340038	153.75	1.1281 - 1.1905	210.70	182.20	172.60	168.00	163.25	159.30
1.2500	$1 \frac{1}{4}$	1	8	3	$\frac{7}{8}$	11 1/2	340040	162.50	1.1906 - 1.2530	219.60	191.15	181.45	177.00	172.00	168.10
1.3125	$1 \frac{5}{16}$	1	8	3	$\frac{7}{8}$	11 1/2	340042	171.00	1.2531 - 1.3155	227.95	199.45	189.80	185.35	180.35	176.60
1.3750	$1 \frac{3}{8}$	1	8	3 1/4	$\frac{7}{8}$	12	340044	181.45	1.3156 - 1.3780	238.40	209.95	200.45	195.75	191.00	187.20
1.4375	$1 \frac{7}{16}$	$1 \frac{1}{4}$	8	3 1/4	$\frac{7}{8}$	12	340046	202.15	1.3781 - 1.4405	259.30	230.70	221.15	216.60	211.70	207.80
1.5000	$1 \frac{1}{2}$	$1 \frac{1}{4}$	8	3 1/2	$\frac{7}{8}$	12 1/2	340048	213.80	1.4406 - 1.5030	270.75	242.20	232.55	228.10	223.20	219.30
1.5625	$1 \frac{9}{16}$	$1 \frac{1}{4}$	8	3 1/2	$\frac{7}{8}$	12 1/2	340050	317.50	1.5031 - 1.5660	374.45	345.90	336.40	331.80	327.00	323.10
1.6250	$1 \frac{5}{8}$	$1 \frac{1}{4}$	8	3 3/4	$\frac{7}{8}$	13	340052	328.35	1.5661 - 1.6280	385.25	356.80	347.20	342.65	337.70	333.90
1.6875	$1 \frac{11}{16}$	$1 \frac{1}{4}$	8	3 3/4	$\frac{7}{8}$	13	340054	369.20	1.6281 - 1.6910	426.40	397.80	388.25	383.70	378.90	374.95
1.7500	$1 \frac{3}{4}$	$1 \frac{1}{4}$	10	4	$\frac{7}{8}$	13 1/2	340056	369.20	1.6911 - 1.7530	426.40	397.80	388.25	383.70	378.90	374.95
1.8125	$1 \frac{13}{16}$	$1 \frac{1}{2}$	10	4	$\frac{7}{8}$	13 1/2	340058	369.20	1.7531 - 1.8160	426.40	397.80	388.25	383.70	378.90	374.95
1.8750	$1 \frac{7}{8}$	$1 \frac{1}{2}$	10	4 1/4	$\frac{7}{8}$	14	340060	387.00	1.8161 - 1.8780	443.95	415.35	405.70	401.25	396.35	392.45
1.9375	$1 \frac{15}{16}$	$1 \frac{1}{2}$	10	4 1/4	$\frac{7}{8}$	14	340062	387.00	1.8781 - 1.9410	443.95	415.35	405.70	401.25	396.35	392.45
2.0000	2	$1 \frac{1}{2}$	12	4 1/4	$\frac{7}{8}$	14	340064	387.00	1.9411 - 2.0030	443.95	415.35	405.70	401.25	396.35	392.45

*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	\$78.55
21	.1590	.151	4	1	1/2	4	34001590	78.55
20	.1610	.151	4	1	1/2	4	34001610	78.55
19	.1660	.151	4	1	1/2	4	34001660	78.55
18	.1695	.151	4	1	1/2	4	34001695	78.55
17	.1730	.151	4	1	1/2	4	34001730	78.55
16	.1770	$\frac{11}{64}$	4	1 1/8	1/2	4 1/2	34001770	73.10
15	.1800	$\frac{11}{64}$	4	1 1/8	1/2	4 1/2	34001800	73.10
14	.1820	$\frac{11}{64}$	4	1 1/8	1/2	4 1/2	34001820	73.10
13	.1850	$\frac{11}{64}$	4	1 1/8	1/2	4 1/2	3400047	73.10
12	.1890	$\frac{11}{64}$	4	1 1/8	1/2	4 1/2	3400048	73.10
11	.1910	$\frac{11}{64}$	4	1 1/8	1/2	4 1/2	34001910	73.10
10	.1935	$\frac{11}{64}$	4	1 1/8	1/2	4 1/2	34001935	73.10
9	.1960	$\frac{11}{64}$	4	1 1/8	1/2	4 1/2	34001960	73.10
8	.1990	$\frac{11}{64}$	4	1 1/8	1/2	4 1/2	34001990	73.10
7	.2010	$\frac{11}{64}$	4	1 1/8	1/2	4 1/2	34002010	73.10
6	.2040	$\frac{11}{64}$	4	1 1/8	1/2	4 1/2	34002040	73.10
5	.2055	$\frac{13}{64}$	4	1 1/4	1/2	5	34002055	73.10
4	.2090	$\frac{13}{64}$	4	1 1/4	1/2	5	34002090	73.10
3	.2130	$\frac{13}{64}$	4	1 1/4	1/2	5	34002130	73.10
2	.2210	$\frac{13}{64}$	4	1 1/4	1/2	5	34002210	73.10
1	.2280	$\frac{7}{32}$	4	1 1/2	1/2	6	34002280	76.50
A	.2340	$\frac{7}{32}$	4	1 1/2	1/2	6	34002340	76.50
B	.2380	$\frac{7}{32}$	4	1 1/2	1/2	6	34002380	76.50
C	.2420	$\frac{15}{64}$	4	1 1/2	1/2	6	34002420	\$73.10
D	.2460	$\frac{15}{64}$	4	1 1/2	1/2	6	34002460	73.10
E	.2500	$\frac{15}{64}$	4	1 1/2	1/2	6	3400008	55.70
F	.2570	$\frac{15}{64}$	4	1 1/2	1/2	6	34002570	74.25
G	.2610	$\frac{15}{64}$	4	1 1/2	1/2	6	34002610	74.25
H	.2660	$\frac{15}{64}$	4	1 1/2	1/2	6	34002660	74.25
I	.2720	$\frac{15}{64}$	4	1 1/2	1/2	6	34002720	74.25
J	.2770	$\frac{15}{64}$	4	1 1/2	1/2	6	34002770	74.25
K	.2810	$\frac{15}{64}$	4	1 1/2	1/2	6	34002810	74.25
L	.2900	$\frac{9}{32}$	4	1 1/2	1/2	6	34002900	74.25
M	.2950	$\frac{9}{32}$	4	1 1/2	1/2	6	34002950	74.25
N	.3020	$\frac{9}{32}$	4	1 1/2	1/2	6	34003020	74.25
O	.3160	$\frac{9}{32}$	4	1 1/2	1/2	6	34003160	76.20
P	.3230	$\frac{9}{32}$	4	1 1/2	1/2	6	34003230	76.20
Q	.3320	$\frac{9}{32}$	4	1 1/2	1/2	6	34003320	76.20
R	.3390	$\frac{9}{32}$	4	1 1/2	1/2	6	34003390	76.20
S	.3480	$\frac{5}{16}$	4	1 3/4	5/8	7	34003480	76.20
T	.3580	$\frac{5}{16}$	4	1 3/4	5/8	7	34003580	76.20
U	.3680	$\frac{5}{16}$	4	1 3/4	5/8	7	34003680	76.20
V	.3770	$\frac{5}{16}$	4	1 3/4	5/8	7	34003770	76.20
W	.3860	$\frac{5}{16}$	4	1 3/4	5/8	7	34003860	79.10
X	.3970	$\frac{5}{16}$	4	1 3/4	5/8	7	34003970	79.10
Y	.4040	$\frac{5}{16}$	4	1 3/4	5/8	7	34004040	79.10
Z	.4130	$\frac{3}{8}$	4	1 3/4	5/8	7	34004130	83.15

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	1/2	4	3400040	\$78.55	3.962 - 4.493	\$118.65	\$92.05	\$83.00	\$78.65	\$74.20	\$70.35	\$65.30
4.5	.1772	1/64	4	1 1/8	1/2	4 1/2	3400045	73.10	4.494 - 5.182	112.20	86.25	77.55	73.30	68.75	65.25	60.25
5.0	.1969	1/64	4	1 1/8	1/2	4 1/2	3400050	73.10	-	-	-	-	-	-	-	-
5.5	.2165	13/64	4	1 1/4	1/2	5	3400055	73.10	5.183 - 5.613	112.20	86.25	77.55	73.30	68.75	65.25	60.25
6.0	.2362	7/32	4	1 1/2	1/2	6	3400060	76.50	5.614 - 6.045	115.60	89.60	80.80	76.55	72.15	68.55	63.45
6.3	.2480	15/64	4	1 1/2	1/2	6	3400063	73.10	6.046 - 6.426	112.20	86.25	77.55	73.30	68.75	65.25	60.25
6.5	.2559	15/64	4	1 1/2	1/2	6	3400065	74.25	6.427 - 7.214	113.50	87.40	78.70	74.45	70.05	66.40	61.40
7.0	.2756	15/64	4	1 1/2	1/2	6	3400070	74.25	-	-	-	-	-	-	-	-
7.5	.2953	9/32	4	1 1/2	1/2	6	3400075	74.25	7.215 - 8.001	113.50	87.40	78.70	74.45	70.05	66.40	61.40
8.0	.3150	9/32	4	1 1/2	1/2	6	3400080	74.25	-	-	-	-	-	-	-	-
8.5	.3346	9/32	4	1 1/2	5/8	6	3400085	76.20	8.002 - 8.814	115.50	89.45	80.70	76.50	72.05	68.45	63.40
9.0	.3543	5/16	4	1 3/4	5/8	7	3400090	76.20	8.815 - 9.601	115.50	89.45	80.70	76.50	72.05	68.45	63.40
9.5	.3740	5/16	4	1 3/4	5/8	7	347837	74.35	-	-	-	-	-	-	-	-
10.0	.3937	5/16	4	1 3/4	5/8	7	3400100	79.10	9.602 - 10.389	118.25	92.30	83.55	79.35	74.90	71.35	66.30
10.5	.4134	3/8	4	1 3/4	5/8	7	3400105	83.15	10.390 - 11.201	122.40	96.45	87.75	83.45	79.10	75.50	70.45
11.0	.4331	3/8	4	1 3/4	5/8	7	3400110	83.15	-	-	-	-	-	-	-	-
11.5	.4528	3/8	4	1 3/4	5/8	7	3400115	84.25	11.202 - 11.989	123.35	97.40	88.70	84.45	80.00	76.50	71.45
12.0	.4724	7/16	6	2	5/8	8	3400120	98.65	11.990 - 12.776	141.80	113.15	103.65	99.05	94.15	90.15	84.60
12.5	.4921	7/16	6	2	5/8	8	3400125	98.65	-	-	-	-	-	-	-	-
13.0	.5118	7/16	6	2	5/8	8	3400130	105.80	12.777 - 13.564	148.85	120.20	110.70	105.95	101.20	97.20	91.65
13.5	.5315	7/16	6	2	5/8	8	3400135	105.80	-	-	-	-	-	-	-	-
14.0	.5512	7/16	6	2	5/8	8	3400140	105.80	13.565 - 14.376	148.85	120.20	110.70	105.95	101.20	97.20	91.65
14.5	.5709	7/16	6	2	5/8	8	3400145	109.25	14.377 - 15.164	152.40	123.80	114.15	109.45	104.70	100.70	95.10
15.0	.5906	7/16	6	2	5/8	8	3400150	109.25	-	-	-	-	-	-	-	-
15.5	.6102	9/16	6	2 1/4	5/8	9	3400155	109.25	15.165 - 15.951	152.40	123.80	114.15	109.45	104.70	100.70	95.10
16.0	.6299	9/16	6	2 1/4	5/8	9	3400160	110.75	15.952 - 16.739	154.00	125.30	115.65	110.90	106.25	102.15	96.60
16.5	.6496	9/16	6	2 1/4	5/8	9	3400165	110.75	-	-	-	-	-	-	-	-
17.0	.6693	9/16	6	2 1/4	5/8	9	3400170	110.75	16.740 - 17.551	154.00	125.30	115.65	110.90	106.25	102.15	96.60
17.5	.6890	9/16	6	2 1/4	5/8	9	3400175	110.75	-	-	-	-	-	-	-	-
18.0	.7087	9/16	6	2 1/4	5/8	9	3400180	115.05	17.552 - 18.339	158.20	129.60	120.05	115.45	110.60	106.55	101.00
18.5	.7283	5/8	6	2 1/2	3/4	9 1/2	3400185	115.05	18.340 - 19.126	158.20	129.60	120.05	115.45	110.60	106.55	101.00
19.0	.7480	5/8	6	2 1/2	3/4	9 1/2	3400190	115.05	-	-	-	-	-	-	-	-
19.5	.7677	5/8	6	2 1/2	3/4	9 1/2	3400195	118.25	19.127 - 19.914	161.35	132.85	123.20	118.40	113.75	109.70	104.25
20.0	.7874	5/8	6	2 1/2	3/4	9 1/2	3400200	118.25	19.915 - 20.726	161.35	132.85	123.20	118.40	113.75	109.70	104.25
20.5	.8071	5/8	6	2 1/2	3/4	9 1/2	3400205	118.25	-	-	-	-	-	-	-	-
21.0	.8268	5/8	6	2 1/2	3/4	9 1/2	3400210	122.25	20.727 - 21.514	165.40	136.65	127.15	122.40	117.65	113.75	108.25
21.5	.8465	5/8	6	2 1/2	3/4	9 1/2	3400215	122.25	-	-	-	-	-	-	-	-
22.0	.8661	3/4	6	2 5/8	3/4	10	3400220	122.25	21.515 - 22.301	165.40	136.65	127.15	122.40	117.65	113.75	108.25
22.5	.8858	3/4	6	2 5/8	3/4	10	3400225	144.55	22.302 - 23.089	189.25	159.50	149.60	144.80	139.80	135.65	129.90
23.0	.9055	3/4	6	2 5/8	3/4	10	3400230	144.55	-	-	-	-	-	-	-	-
23.5	.9252	3/4	8	2 5/8	3/4	10	3400235	144.55	23.090 - 23.901	189.25	159.50	149.60	144.80	139.80	135.65	129.90
24.0	.9449	3/4	8	2 5/8	3/4	10	3400240	150.70	23.902 - 24.689	195.40	165.55	155.60	150.85	145.85	141.75	136.00
24.5	.9646	3/4	8	2 5/8	3/4	10	3400245	150.70	-	-	-	-	-	-	-	-
25.0	.9843	7/8	8	2 3/4	3/4	10 1/2	3400250	150.70	24.690 - 25.476	195.40	165.55	155.60	150.85	145.85	141.75	136.00
25.5	1.0039	7/8	8	2 3/4	3/4	10 1/2	3400255	154.15	25.477 - 27.076	197.20	168.65	159.15	154.45	149.70	145.80	140.10
26.0	1.0236	7/8	8	2 3/4	3/4	10 1/2	3400260	154.15	-	-	-	-	-	-	-	-
27.0	1.0630	7/8	8	2 3/4	3/4	10 1/2	3400270	154.15	-	-	-	-	-	-	-	-
28.0	1.1024	7/8	8	2 7/8	7/8	11	3400280	165.25	27.077 - 28.651	208.05	179.60	170.00	165.40	160.65	156.65	151.15
29.0	1.1417	1	8	2 7/8	7/8	11	3400290	172.60	28.652 - 30.239	215.45	187.20	177.35	172.85	168.00	164.10	158.60
30.0	1.1811	1	8	2 7/8	7/8	11	3400300	172.60	-	-	-	-	-	-	-	-
31.0	1.2205	1	8	3	7/8	11 1/2	3400310	181.45	30.240 - 31.826	224.35	195.85	186.35	181.75	177.00	173.00	167.55
32.0	1.2598	1	8	3	7/8	11 1/2	3400320	189.80	31.827 - 33.414	232.80	204.45	194.75	190.15	185.35	181.30	175.75
33.0	1.2992	1	8	3	7/8	11 1/2	3400330	189.80	-	-	-	-	-	-	-	-
34.0	1.3386	1	8	3 1/4	7/8	12	3400340	200.45	33.415 - 35.001	243.20	214.85	205.20	200.60	195.75	191.80	186.35
35.0	1.3780	1	8	3 1/4	7/8	12	3400350	200.45	-	-	-	-	-	-	-	-
36.0	1.4173	1 1/4	8	3 1/4	7/8	12	3400360	221.15	35.002 - 36.589	264.05	235.55	226.05	221.30	216.60	212.55	207.10
37.0	1.4567	1 1/4	8	3 1/2	7/8	12 1/2	3400370	232.55	36.590 - 38.176	275.55	247.10	237.55	232.85	228.10	224.10	218.70

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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	\$78.55	.1860	34001860	\$73.10	.2160	34002160	\$73.10	.2460	34002460	\$73.10	.2760	34002760	\$74.25
.1565	34001565	78.55	.1865	347818	70.15	.2165	3400055	73.10	.2465	34002465	73.10	.2765	34002765	74.25
.1570	34001570	78.55	.1870	34001870	73.10	.2170	34002170	73.10	.2470	34002470	73.10	.2770	34002770	74.25
.1575	3400040	78.55	.1875	340006	55.70	.2175	34002175	73.10	.2475	34002475	73.10	.2775	34002775	74.25
.1580	34001580	78.55	.1880	34001880	73.10	.2180	34002180	73.10	.2480	3400063	73.10	.2780	34002780	74.25
.1585	34001585	78.55	.1885	347819	70.15	.2185	34002185	73.10	.2485	34002485	73.10	.2785	34002785	74.25
.1590	34001590	78.55	.1890	3400048	73.10	.2190	34002190	73.10	.2490	347824	70.15	.2790	34002790	74.25
.1595	34001595	78.55	.1895	34001895	73.10	.2195	34002195	73.10	.2495	34002495	73.10	.2795	3400071	74.25
.1600	34001600	78.55	.1900	34001900	73.10	.2200	34002200	73.10	.2500	340008	55.70	.2800	34002800	74.25
.1605	34001605	78.55	.1905	34001905	73.10	.2205	3400056	73.10	.2505	34002505	73.10	.2805	34002805	74.25
.1610	34001610	78.55	.1910	34001910	73.10	.2210	34002210	73.10	.2510	347825	70.15	.2810	34002810	74.25
.1615	34001615	78.55	.1915	34001915	73.10	.2215	34002215	76.50	.2515	34002515	73.10	.2815	34002815	74.25
.1620	34001620	78.55	.1920	34001920	73.10	.2220	34002220	76.50	.2520	3400064	73.10	.2820	34002820	74.25
.1625	34001625	78.55	.1925	34001925	73.10	.2225	34002225	76.50	.2525	34002525	73.10	.2825	34002825	74.25
.1630	34001630	78.55	.1930	34001930	73.10	.2230	34002230	76.50	.2530	34002530	73.10	.2830	34002830	74.25
.1635	34001635	78.55	.1935	34001935	73.10	.2235	34002235	76.50	.2535	34002535	74.25	.2835	3400072	74.25
.1640	34001640	78.55	.1940	34001940	73.10	.2240	34002240	76.50	.2540	34002540	74.25	.2840	34002840	74.25
.1645	34001645	78.55	.1945	34001945	73.10	.2245	34002245	76.50	.2545	34002545	74.25	.2845	34002845	74.25
.1650	34001650	78.55	.1950	34001950	73.10	.2250	34002250	76.50	.2550	34002550	74.25	.2850	34002850	74.25
.1655	34001655	78.55	.1955	34001955	73.10	.2255	34002255	76.50	.2555	34002555	74.25	.2855	34002855	74.25
.1660	34001660	78.55	.1960	34001960	73.10	.2260	34002260	76.50	.2560	34002560	74.25	.2860	34002860	74.25
.1665	34001665	78.55	.1965	34001965	73.10	.2265	34002265	76.50	.2565	34002565	74.25	.2865	34002865	74.25
.1670	34001670	78.55	.1970	34001970	73.10	.2270	34002270	76.50	.2570	34002570	74.25	.2870	34002870	74.25
.1675	34001675	78.55	.1975	34001975	73.10	.2275	34002275	76.50	.2575	34002575	74.25	.2875	34002875	74.25
.1680	34001680	78.55	.1980	34001980	73.10	.2280	34002280	76.50	.2580	34002580	74.25	.2880	34002880	74.25
.1685	34001685	78.55	.1985	34001985	73.10	.2285	34002285	76.50	.2585	34002585	74.25	.2885	34002885	74.25
.1690	34001690	78.55	.1990	34001990	73.10	.2290	34002290	76.50	.2590	34002590	74.25	.2890	34002890	74.25
.1695	34001695	78.55	.1995	34001995	73.10	.2295	34002295	76.50	.2595	34002595	74.25	.2895	34002895	74.25
.1700	34001700	78.55	.2000	34002000	73.10	.2300	34002300	76.50	.2600	34002600	74.25	.2900	34002900	74.25
.1705	34001705	78.55	.2005	34002005	73.10	.2305	34002305	76.50	.2605	34002605	74.25	.2905	34002905	74.25
.1710	34001710	78.55	.2010	34002010	73.10	.2310	34002310	76.50	.2610	34002610	74.25	.2910	34002910	74.25
.1715	34001715	78.55	.2015	34002015	73.10	.2315	34002315	76.50	.2615	34002615	74.25	.2915	34002915	74.25
.1720	34001720	78.55	.2020	34002020	73.10	.2320	34002320	76.50	.2620	34002620	74.25	.2920	34002920	74.25
.1725	34001725	78.55	.2025	34002025	73.10	.2325	34002325	76.50	.2625	34002625	74.25	.2925	34002925	74.25
.1730	34001730	78.55	.2030	34002030	73.10	.2330	34002330	76.50	.2630	34002630	74.25	.2930	34002930	74.25
.1735	34001735	78.55	.2035	34002035	73.10	.2335	34002335	76.50	.2635	34002635	74.25	.2935	34002935	74.25
.1740	34001740	78.55	.2040	34002040	73.10	.2340	34002340	76.50	.2640	34002640	74.25	.2940	34002940	74.25
.1745	34001745	78.55	.2045	34002045	73.10	.2345	34002345	76.50	.2645	34002645	74.25	.2945	34002945	74.25
.1750	34001750	78.55	.2050	34002050	73.10	.2350	34002350	76.50	.2650	34002650	74.25	.2950	34002950	74.25
.1755	34001755	78.55	.2055	34002055	73.10	.2355	34002355	76.50	.2655	34002655	74.25	.2955	34002955	74.25
.1760	34001760	78.55	.2060	34002060	73.10	.2360	34002360	76.50	.2660	34002660	74.25	.2960	34002960	74.25
.1765	34001765	78.55	.2065	34002065	73.10	.2365	34002365	76.50	.2665	34002665	74.25	.2965	34002965	74.25
.1770	34001770	73.10	.2070	34002070	73.10	.2370	34002370	76.50	.2670	34002670	74.25	.2970	34002970	74.25
.1775	34001775	73.10	.2075	34002075	73.10	.2375	34002375	76.50	.2675	34002675	74.25	.2975	34002975	74.25
.1780	34001780	73.10	.2080	34002080	73.10	.2380	34002380	76.50	.2680	34002680	74.25	.2980	34002980	74.25
.1785	34001785	73.10	.2085	34002085	73.10	.2385	34002385	73.10	.2685	34002685	74.25	.2985	34002985	74.25
.1790	34001790	73.10	.2090	34002090	73.10	.2390	34002390	73.10	.2690	34002690	74.25	.2990	34002990	74.25
.1795	34001795	73.10	.2095	34002095	73.10	.2395	34002395	73.10	.2695	34002695	74.25	.2995	34002995	74.25
.1800	34001800	73.10	.2100	34002100	73.10	.2400	34002400	73.10	.2700	34002700	74.25	.3000	34003000	74.25
.1805	34001805	73.10	.2105	34002105	73.10	.2405	34002405	73.10	.2705	34002705	74.25	.3005	34003005	74.25
.1810	34001810	73.10	.2110	34002110	73.10	.2410	34002410	73.10	.2710	34002710	74.25	.3010	34003010	74.25
.1815	34001815	73.10	.2115	34002115	73.10	.2415	34002415	73.10	.2715	34002715	74.25	.3015	34003015	74.25
.1820	34001820	73.10	.2120	34002120	73.10	.2420	34002420	73.10	.2720	34002720	74.25	.3020	34003020	74.25
.1825	34001825	73.10	.2125	34002125	73.10	.2425	34002425	73.10	.2725	34002725	74.25	.3025	34003025	74.25
.1830	34001830	73.10	.2130	34002130	73.10	.2430	34002430	73.10	.2730	34002730	74.25	.3030	34003030	74.25
.1835	34001835	73.10	.2135	34002135	73.10	.2435	34002435	73.10	.2735	34002735	74.25	.3035	34003035	74.25
.1840	34001840	73.10	.2140	34002140	73.10	.2440	34002440	73.10	.2740	34002740	74.25	.3040	34003040	74.25
.1845	34001845	73.10	.2145	34002145	73.10	.2445	34002445	73.10	.2745	34002745	74.25	.3045	34003045	74.25
.1850	3400047	73.10	.2150	34002150	73.10	.2450	34002450	73.10	.2750	34002750	74.25	.3050	34003050	74.25
.1855	34001855	73.10	.2155	34002155	73.10	.2455	34002455	73.10	.2755	34002755	74.25	.3055	34003055	74.25

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	\$74.25	.3360	34003360	\$76.20	.3660	34003660	\$76.20	.3960	34003960	\$79.10	.4260	34004260	\$83.15
.3065	34003065	74.25	.3365	34003365	76.20	.3665	34003665	76.20	.3965	34003965	79.10	.4265	34004265	83.15
.3070	34003070	74.25	.3370	34003370	76.20	.3670	34003670	76.20	.3970	34003970	79.10	.4270	34004270	83.15
.3075	34003075	74.25	.3375	34003375	76.20	.3675	34003675	76.20	.3975	34003975	79.10	.4275	34004275	83.15
.3080	34003080	74.25	.3380	34003380	76.20	.3680	34003680	76.20	.3980	34003980	79.10	.4280	34004280	83.15
.3085	34003085	74.25	.3385	34003385	76.20	.3685	34003685	76.20	.3985	34003985	79.10	.4285	34004285	83.15
.3090	34003090	74.25	.3390	34003390	76.20	.3690	34003690	76.20	.3990	34003990	79.10	.4290	34004290	83.15
.3095	34003095	74.25	.3395	34003395	76.20	.3695	34003695	76.20	.3995	34003995	79.10	.4295	34004295	83.15
.3100	34003100	74.25	.3400	34003400	76.20	.3700	34003700	76.20	.4000	34004000	79.10	.4300	34004300	83.15
.3105	34003105	74.25	.3405	34003405	76.20	.3705	34003705	76.20	.4005	34004005	79.10	.4305	34004305	83.15
.3110	34000079	74.25	.3410	34003410	76.20	.3710	34003710	76.20	.4010	34004010	79.10	.4310	34004310	83.15
.3115	347831	71.65	.3415	34003415	76.20	.3715	34003715	76.20	.4015	34004015	79.10	.4315	34004315	83.15
.3120	34003120	74.25	.3420	34003420	76.20	.3720	34003720	76.20	.4020	34004020	79.10	.4320	34004320	83.15
.3125	340010	56.95	.3425	34000087	76.20	.3725	34003725	76.20	.4025	34004025	79.10	.4325	34004325	83.15
.3130	34003130	74.25	.3430	34003430	76.20	.3730	34003730	76.20	.4030	34004030	79.10	.4330	34004330	83.15
.3135	347832	71.65	.3435	34003435	76.20	.3735	34003735	76.20	.4035	34004035	79.10	.4335	34004335	83.15
.3140	34003140	74.25	.3440	34003440	76.20	.3740	347837	74.35	.4040	34004040	79.10	.4340	34004340	83.15
.3145	34003145	74.25	.3445	34003445	76.20	.3745	34003745	76.20	.4045	34004045	79.10	.4345	34004345	83.15
.3150	34000080	74.25	.3450	34003450	76.20	.3750	340012	58.95	.4050	34004050	79.10	.4350	34004350	83.15
.3155	34003155	76.20	.3455	34003455	76.20	.3755	34003755	76.20	.4055	3400103	79.10	.4355	34004355	83.15
.3160	34003160	76.20	.3460	34003460	76.20	.3760	347838	74.35	.4060	34004060	79.10	.4360	34004360	83.15
.3165	34003165	76.20	.3465	34000088	76.20	.3765	34003765	76.20	.4065	34004065	79.10	.4365	347843	83.10
.3170	34003170	76.20	.3470	34003470	76.20	.3770	34003770	76.20	.4070	34004070	79.10	.4370	3400111	83.15
.3175	34003175	76.20	.3475	34003475	76.20	.3775	34003775	76.20	.4075	34004075	79.10	.4375	340014	66.05
.3180	34003180	76.20	.3480	34003480	76.20	.3780	34000096	76.20	.4080	34004080	79.10	.4380	34004380	83.15
.3185	34003185	76.20	.3485	34003485	76.20	.3785	34003785	79.10	.4085	34004085	79.10	.4385	347844	83.10
.3190	34003190	76.20	.3490	34003490	76.20	.3790	34003790	79.10	.4090	34004090	79.10	.4390	34004390	83.15
.3195	34003195	76.20	.3495	34003495	76.20	.3795	34003795	79.10	.4095	34004095	83.15	.4395	34004395	83.15
.3200	34003200	76.20	.3500	34003500	76.20	.3800	34003800	79.10	.4100	34004100	83.15	.4400	34004400	83.15
.3205	34003205	76.20	.3505	34003505	76.20	.3805	34003805	79.10	.4105	34004105	83.15	.4405	34004405	83.15
.3210	34003210	76.20	.3510	34003510	76.20	.3810	34003810	79.10	.4110	34004110	83.15	.4410	34004410	83.15
.3215	34003215	76.20	.3515	34003515	76.20	.3815	34003815	79.10	.4115	34004115	83.15	.4415	34004415	84.25
.3220	34003220	76.20	.3520	34003520	76.20	.3820	34003820	79.10	.4120	34004120	83.15	.4420	34004420	84.25
.3225	34003225	76.20	.3525	34003525	76.20	.3825	34003825	79.10	.4125	34004125	83.15	.4425	34004425	84.25
.3230	34003230	76.20	.3530	34003530	76.20	.3830	34003830	79.10	.4130	34004130	83.15	.4430	34004430	84.25
.3235	34003235	76.20	.3535	34003535	76.20	.3835	34003835	79.10	.4135	34004135	83.15	.4435	34004435	84.25
.3240	34003240	76.20	.3540	34003540	76.20	.3840	34003840	79.10	.4140	34004140	83.15	.4440	34004440	84.25
.3245	34003245	76.20	.3545	34003545	76.20	.3845	34003845	79.10	.4145	34004145	83.15	.4445	34004445	84.25
.3250	34003250	76.20	.3550	34003550	76.20	.3850	34003850	79.10	.4150	34004150	83.15	.4450	34004450	84.25
.3255	34003255	76.20	.3555	34003555	76.20	.3855	34003855	79.10	.4155	34004155	83.15	.4455	34004455	84.25
.3260	34003260	76.20	.3560	34003560	76.20	.3860	34003860	79.10	.4160	34004160	83.15	.4460	34004460	84.25
.3265	34003265	76.20	.3565	34003565	76.20	.3865	34003865	79.10	.4165	34004165	83.15	.4465	34004465	84.25
.3270	34003270	76.20	.3570	34003570	76.20	.3870	34003870	79.10	.4170	34004170	83.15	.4470	34004470	84.25
.3275	34003275	76.20	.3575	34003575	76.20	.3875	34003875	79.10	.4175	34004175	83.15	.4475	34004475	84.25
.3280	34003280	76.20	.3580	34003580	76.20	.3880	34003880	79.10	.4180	34004180	83.15	.4480	34004480	84.25
.3285	34003285	76.20	.3585	34003585	76.20	.3885	34003885	79.10	.4185	34004185	83.15	.4485	34004485	84.25
.3290	34003290	76.20	.3590	34003590	76.20	.3890	34003890	79.10	.4190	34004190	83.15	.4490	34004490	84.25
.3295	34003295	76.20	.3595	34003595	76.20	.3895	34003895	79.10	.4195	34004195	83.15	.4495	34004495	84.25
.3300	34003300	76.20	.3600	34003600	76.20	.3900	34003900	79.10	.4200	34004200	83.15	.4500	34004500	84.25
.3305	34003305	76.20	.3605	34003605	76.20	.3905	34003905	79.10	.4205	34004205	83.15	.4505	34004505	84.25
.3310	34003310	76.20	.3610	34003610	76.20	.3910	34003910	79.10	.4210	34004210	83.15	.4510	34004510	84.25
.3315	34003315	76.20	.3615	34003615	76.20	.3915	34003915	79.10	.4215	34004215	83.15	.4515	34004515	84.25
.3320	34003320	76.20	.3620	34003620	76.20	.3920	34003920	79.10	.4220	34004220	83.15	.4520	34004520	84.25
.3325	34003325	76.20	.3625	34003625	76.20	.3925	34003925	79.10	.4225	34004225	83.15	.4525	34004525	84.25
.3330	34003330	76.20	.3630	34003630	76.20	.3930	34003930	79.10	.4230	34004230	83.15	.4530	34004530	84.25
.3335	34003335	76.20	.3635	34003635	76.20	.3935	34003935	79.10	.4235	34004235	83.15	.4535	34004535	84.25
.3340	34003340	76.20	.3640	34003640	76.20	.3940	34003940	79.10	.4240	34004240	83.15	.4540	34004540	84.25
.3345	34003345	76.20	.3645	34003645	76.20	.3945	34003945	79.10	.4245	34004245	83.15	.4545	34004545	84.25
.3350	34003350	76.20	.3650	34003650	76.20	.3950	34003950	79.10	.4250	34004250	83.15	.4550	34004550	84.25
.3355	34003355	76.20	.3655	34003655	76.20	.3955	34003955	79.10	.4255	34004255	83.15	.4555	34004555	84.25

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	\$84.25	.4860	34004860	\$98.65	.5160	34005160	\$105.80	.5460	34005460	\$105.80	.5760	34005760	\$109.25
.4565	34004565	84.25	.4865	34004865	98.65	.5165	34005165	105.80	.5465	34005465	105.80	.5765	34005765	109.25
.4570	34004570	84.25	.4870	34004870	98.65	.5170	34005170	105.80	.5470	34005470	105.80	.5770	34005770	109.25
.4575	34004575	84.25	.4875	34004875	98.65	.5175	34005175	105.80	.5475	34005475	105.80	.5775	34005775	109.25
.4580	34004580	84.25	.4880	34004880	98.65	.5180	34005180	105.80	.5480	34005480	105.80	.5780	34005780	109.25
.4585	34004585	84.25	.4885	34004885	98.65	.5185	34005185	105.80	.5485	34005485	105.80	.5785	34005785	109.25
.4590	34004590	84.25	.4890	34004890	98.65	.5190	34005190	105.80	.5490	34005490	105.80	.5790	34005790	109.25
.4595	34004595	84.25	.4895	34004895	98.65	.5195	34005195	105.80	.5495	34005495	105.80	.5795	34005795	109.25
.4600	34004600	84.25	.4900	34004900	98.65	.5200	34005200	105.80	.5500	34005500	105.80	.5800	34005800	109.25
.4605	34004605	84.25	.4905	34004905	98.65	.5205	34005205	105.80	.5505	34005505	105.80	.5805	34005805	109.25
.4610	34004610	84.25	.4910	34004910	98.65	.5210	34005210	105.80	.5510	34005510	105.80	.5810	34005810	109.25
.4615	34004615	84.25	.4915	34004915	98.65	.5215	34005215	105.80	.5515	34005515	105.80	.5815	34005815	109.25
.4620	34004620	84.25	.4920	34004920	98.65	.5220	34005220	105.80	.5520	34005520	105.80	.5820	34005820	109.25
.4625	34004625	84.25	.4925	34004925	98.65	.5225	34005225	105.80	.5525	34005525	105.80	.5825	34005825	109.25
.4630	34004630	84.25	.4930	34004930	98.65	.5230	34005230	105.80	.5530	34005530	105.80	.5830	34005830	109.25
.4635	34004635	84.25	.4935	34004935	98.65	.5235	34005235	105.80	.5535	34005535	105.80	.5835	34005835	109.25
.4640	34004640	84.25	.4940	34004940	98.65	.5240	34005240	105.80	.5540	34005540	105.80	.5840	34005840	109.25
.4645	34004645	84.25	.4945	34004945	98.65	.5245	34005245	105.80	.5545	34005545	105.80	.5845	34005845	109.25
.4650	34004650	84.25	.4950	34004950	98.65	.5250	34005250	105.80	.5550	34005550	105.80	.5850	34005850	109.25
.4655	34004655	84.25	.4955	34004955	98.65	.5255	34005255	105.80	.5555	34005555	105.80	.5855	34005855	109.25
.4660	34004660	84.25	.4960	34004960	98.65	.5260	34005260	105.80	.5560	34005560	105.80	.5860	34005860	109.25
.4665	34004665	84.25	.4965	34004965	98.65	.5265	34005265	105.80	.5565	34005565	105.80	.5865	34005865	109.25
.4670	34004670	84.25	.4970	34004970	98.65	.5270	34005270	105.80	.5570	34005570	105.80	.5870	34005870	109.25
.4675	34004675	84.25	.4975	34004975	98.65	.5275	34005275	105.80	.5575	34005575	105.80	.5875	34005875	109.25
.4680	34004680	84.25	.4980	34004980	98.65	.5280	34005280	105.80	.5580	34005580	105.80	.5880	34005880	109.25
.4685	3400119	84.25	.4985	34004985	98.65	.5285	34005285	105.80	.5585	34005585	105.80	.5885	34005885	109.25
.4690	34004690	84.25	.4990	347849	91.05	.5290	34005290	105.80	.5590	34005590	105.80	.5890	34005890	109.25
.4695	34004695	84.25	.4995	34004995	98.65	.5295	34005295	105.80	.5595	34005595	105.80	.5895	34005895	109.25
.4700	34004700	84.25	.5000	340016	79.65	.5300	34005300	105.80	.5600	34005600	105.80	.5900	34005900	109.25
.4705	34004705	84.25	.5005	34005005	98.65	.5305	34005305	105.80	.5605	34005605	105.80	.5905	34005905	109.25
.4710	34004710	84.25	.5010	347850	91.05	.5310	34005310	105.80	.5610	34005610	105.80	.5910	34005910	109.25
.4715	34004715	84.25	.5015	34005015	98.65	.5315	3400135	105.80	.5615	34005615	105.80	.5915	34005915	109.25
.4720	34004720	84.25	.5020	34005020	98.65	.5320	34005320	105.80	.5620	34005620	105.80	.5920	34005920	109.25
.4725	34004725	98.65	.5025	34005025	98.65	.5325	34005325	105.80	.5625	340018	86.70	.5925	34005925	109.25
.4730	34004730	98.65	.5030	34005030	98.65	.5330	34005330	105.80	.5630	3400143	105.80	.5930	34005930	109.25
.4735	34004735	98.65	.5035	34005035	105.80	.5335	34005335	105.80	.5635	34005635	105.80	.5935	34005935	109.25
.4740	34004740	98.65	.5040	34005040	105.80	.5340	34005340	105.80	.5640	34005640	105.80	.5940	34005940	109.25
.4745	34004745	98.65	.5045	34005045	105.80	.5345	34005345	105.80	.5645	34005645	105.80	.5945	3400151	109.25
.4750	34004750	98.65	.5050	34005050	105.80	.5350	34005350	105.80	.5650	34005650	105.80	.5950	34005950	109.25
.4755	34004755	98.65	.5055	34005055	105.80	.5355	34005355	105.80	.5655	34005655	105.80	.5955	34005955	109.25
.4760	34004760	98.65	.5060	34005060	105.80	.5360	34005360	105.80	.5660	34005660	105.80	.5960	34005960	109.25
.4765	34004765	98.65	.5065	34005065	105.80	.5365	34005365	105.80	.5665	34005665	109.25	.5965	34005965	109.25
.4770	34004770	98.65	.5070	34005070	105.80	.5370	34005370	105.80	.5670	34005670	109.25	.5970	34005970	109.25
.4775	34004775	98.65	.5075	34005075	105.80	.5375	34005375	105.80	.5675	34005675	109.25	.5975	34005975	109.25
.4780	34004780	98.65	.5080	34005080	105.80	.5380	34005380	105.80	.5680	34005680	109.25	.5980	34005980	109.25
.4785	34004785	98.65	.5085	34005085	105.80	.5385	34005385	105.80	.5685	34005685	109.25	.5985	34005985	109.25
.4790	34004790	98.65	.5090	34005090	105.80	.5390	34005390	105.80	.5690	34005690	109.25	.5990	34005990	109.25
.4795	34004795	98.65	.5095	34005095	105.80	.5395	34005395	105.80	.5695	34005695	109.25	.5995	34005995	109.25
.4800	34004800	98.65	.5100	34005100	105.80	.5400	34005400	105.80	.5700	34005700	109.25	.6000	34006000	109.25
.4805	34004805	98.65	.5105	34005105	105.80	.5405	34005405	105.80	.5705	34005705	109.25	.6005	34006005	109.25
.4810	34004810	98.65	.5110	34005110	105.80	.5410	34005410	105.80	.5710	34005710	109.25	.6010	34006010	109.25
.4815	34004815	98.65	.5115	34005115	105.80	.5415	34005415	105.80	.5715	34005715	109.25	.6015	34006015	109.25
.4820	34004820	98.65	.5120	34005120	105.80	.5420	34005420	105.80	.5720	34005720	109.25	.6020	34006020	109.25
.4825	34004825	98.65	.5125	34005125	105.80	.5425	34005425	105.80	.5725	34005725	109.25	.6025	34006025	109.25
.4830	34004830	98.65	.5130	34005130	105.80	.5430	34005430	105.80	.5730	34005730	109.25	.6030	34006030	109.25
.4835	34004835	98.65	.5135	34005135	105.80	.5435	34005435	105.80	.5735	34005735	109.25	.6035	34006035	109.25
.4840	34004840	98.65	.5140	34005140	105.80	.5440	34005440	105.80	.5740	34005740	109.25	.6040	34006040	109.25
.4845	34004845	98.65	.5145	34005145	105.80	.5445	34005445	105.80	.5745	34005745	109.25	.6045	34006045	109.25
.4850	34004850	98.65	.5150	34005150	105.80	.5450	34005450	105.80	.5750	34005750	109.25	.6050	34006050	109.25
.4855	34004855	98.65	.5155	34005155	105.80	.5455	34005455	105.80	.5755	34005755	109.25	.6055	34006055	109.25

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	\$109.25	.6360	34006360	\$110.75	.6660	34006660	\$110.75	.6960	34006960	\$115.05	.7260	34007260	\$115.05
.6065	34006065	109.25	.6365	34006365	110.75	.6665	34006665	110.75	.6965	34006965	115.05	.7265	34007265	115.05
.6070	34006070	109.25	.6370	34006370	110.75	.6670	34006670	110.75	.6970	34006970	115.05	.7270	34007270	115.05
.6075	34006075	109.25	.6375	34006375	110.75	.6675	34006675	110.75	.6975	34006975	115.05	.7275	34007275	115.05
.6080	34006080	109.25	.6380	34006380	110.75	.6680	34006680	110.75	.6980	34006980	115.05	.7280	34007280	115.05
.6085	34006085	109.25	.6385	34006385	110.75	.6685	34006685	110.75	.6985	34006985	115.05	.7285	34007285	115.05
.6090	34006090	109.25	.6390	34006390	110.75	.6690	34006690	110.75	.6990	34006990	115.05	.7290	34007290	115.05
.6095	34006095	109.25	.6395	34006395	110.75	.6695	34006695	110.75	.6995	34006995	115.05	.7295	34007295	115.05
.6100	34006100	109.25	.6400	34006400	110.75	.6700	34006700	110.75	.7000	34007000	115.05	.7300	34007300	115.05
.6105	34006105	109.25	.6405	34006405	110.75	.6705	34006705	110.75	.7005	34007005	115.05	.7305	34007305	115.05
.6110	34006110	109.25	.6410	34006410	110.75	.6710	34006710	110.75	.7010	34007010	115.05	.7310	34007310	115.05
.6115	34006115	109.25	.6415	34006415	110.75	.6715	34006715	110.75	.7015	34007015	115.05	.7315	34007315	115.05
.6120	34006120	109.25	.6420	34006420	110.75	.6720	34006720	110.75	.7020	34007020	115.05	.7320	34007320	115.05
.6125	34006125	109.25	.6425	34006425	110.75	.6725	34006725	110.75	.7025	34007025	115.05	.7325	34007325	115.05
.6130	34006130	109.25	.6430	34006430	110.75	.6730	34006730	110.75	.7030	34007030	115.05	.7330	34007330	115.05
.6135	34006135	109.25	.6435	34006435	110.75	.6735	34006735	110.75	.7035	34007035	115.05	.7335	34007335	115.05
.6140	34006140	109.25	.6440	34006440	110.75	.6740	34006740	110.75	.7040	34007040	115.05	.7340	34007340	115.05
.6145	34006145	109.25	.6445	34006445	110.75	.6745	34006745	110.75	.7045	34007045	115.05	.7345	34007345	115.05
.6150	34006150	109.25	.6450	34006450	110.75	.6750	34006750	110.75	.7050	34007050	115.05	.7350	34007350	115.05
.6155	34006155	109.25	.6455	34006455	110.75	.6755	34006755	110.75	.7055	34007055	115.05	.7355	34007355	115.05
.6160	34006160	109.25	.6460	34006460	110.75	.6760	34006760	110.75	.7060	34007060	115.05	.7360	34007360	115.05
.6165	34006165	109.25	.6465	34006465	110.75	.6765	34006765	110.75	.7065	34007065	115.05	.7365	34007365	115.05
.6170	34006170	109.25	.6470	34006470	110.75	.6770	34006770	110.75	.7070	34007070	115.05	.7370	34007370	115.05
.6175	34006175	109.25	.6475	34006475	110.75	.6775	34006775	110.75	.7075	34007075	115.05	.7375	34007375	115.05
.6180	34006180	109.25	.6480	34006480	110.75	.6780	34006780	110.75	.7080	34007080	115.05	.7380	34007380	115.05
.6185	34006185	109.25	.6485	34006485	110.75	.6785	34006785	110.75	.7085	34007085	115.05	.7385	34007385	115.05
.6190	34006190	109.25	.6490	34006490	110.75	.6790	34006790	110.75	.7090	34007090	115.05	.7390	34007390	115.05
.6195	34006195	109.25	.6495	34006495	110.75	.6795	34006795	110.75	.7095	34007095	115.05	.7395	34007395	115.05
.6200	34006200	109.25	.6500	34006500	110.75	.6800	34006800	110.75	.7100	34007100	115.05	.7400	34007400	115.05
.6205	34006205	109.25	.6505	34006505	110.75	.6805	34006805	110.75	.7105	34007105	115.05	.7405	34007405	115.05
.6210	34006210	109.25	.6510	34006510	110.75	.6810	34006810	110.75	.7110	34007110	115.05	.7410	34007410	115.05
.6215	34006215	109.25	.6515	34006515	110.75	.6815	34006815	110.75	.7115	34007115	115.05	.7415	34007415	115.05
.6220	3400158	109.25	.6520	34006520	110.75	.6820	34006820	110.75	.7120	34007120	115.05	.7420	34007420	115.05
.6225	34006225	109.25	.6525	34006525	110.75	.6825	34006825	110.75	.7125	34007125	115.05	.7425	34007425	115.05
.6230	34006230	109.25	.6530	34006530	110.75	.6830	34006830	110.75	.7130	34007130	115.05	.7430	34007430	115.05
.6235	34006235	109.25	.6535	3400166	110.75	.6835	34006835	110.75	.7135	34007135	115.05	.7435	34007435	115.05
.6240	347862	109.25	.6540	34006540	110.75	.6840	34006840	110.75	.7140	34007140	115.05	.7440	34007440	115.05
.6245	34006245	109.25	.6545	34006545	110.75	.6845	34006845	110.75	.7145	34007145	115.05	.7445	34007445	115.05
.6250	340020	90.20	.6550	34006550	110.75	.6850	3400174	110.75	.7150	34007150	115.05	.7450	34007450	115.05
.6255	34006255	109.25	.6555	34006555	110.75	.6855	34006855	110.75	.7155	34007155	115.05	.7455	34007455	115.05
.6260	347863	109.25	.6560	34006560	110.75	.6860	34006860	110.75	.7160	34007160	115.05	.7460	34007460	115.05
.6265	34006265	109.25	.6565	34006565	110.75	.6865	34006865	110.75	.7165	3400182	115.05	.7465	34007465	115.05
.6270	34006270	109.25	.6570	34006570	110.75	.6870	34006870	110.75	.7170	34007170	115.05	.7470	34007470	115.05
.6275	34006275	109.25	.6575	3400167	110.75	.6875	340022	91.85	.7175	34007175	115.05	.7475	34007475	115.05
.6280	34006280	109.25	.6580	34006580	110.75	.6880	34006880	110.75	.7180	34007180	115.05	.7480	3400190	115.05
.6285	34006285	110.75	.6585	34006585	110.75	.6885	34006885	110.75	.7185	34007185	115.05	.7485	34007485	115.05
.6290	34006290	110.75	.6590	34006590	110.75	.6890	3400175	110.75	.7190	34007190	115.05	.7490	347874	115.05
.6295	34006295	110.75	.6595	34006595	110.75	.6895	34006895	110.75	.7195	34007195	115.05	.7495	34007495	115.05
.6300	34006300	110.75	.6600	34006600	110.75	.6900	34006900	110.75	.7200	34007200	115.05	.7500	340024	96.10
.6305	34006305	110.75	.6605	34006605	110.75	.6905	34006905	110.75	.7205	3400183	115.05	.7505	34007505	115.05
.6310	34006310	110.75	.6610	34006610	110.75	.6910	34006910	110.75	.7210	34007210	115.05	.7510	347875	115.05
.6315	34006315	110.75	.6615	34006615	110.75	.6915	34006915	115.05	.7215	34007215	115.05	.7515	34007515	115.05
.6320	34006320	110.75	.6620	34006620	110.75	.6920	34006920	115.05	.7220	34007220	115.05	.7520	3400191	115.05
.6325	34006325	110.75	.6625	34006625	110.75	.6925	34006925	115.05	.7225	34007225	115.05	.7525	34007525	115.05
.6330	34006330	110.75	.6630	34006630	110.75	.6930	34006930	115.05	.7230	34007230	115.05	.7530	34007530	115.05
.6335	34006335	110.75	.6635	34006635	110.75	.6935	34006935	115.05	.7235	34007235	115.05	.7535	34007535	118.25
.6340	34006340	110.75	.6640	34006640	110.75	.6940	34006940	115.05	.7240	34007240	115.05	.7540	34007540	118.25
.6345	34006345	110.75	.6645	34006645	110.75	.6945	34006945	115.05	.7245	34007245	115.05	.7545	34007545	118.25
.6350	34006350	110.75	.6650	34006650	110.75	.6950	34006950	115.05	.7250	34007250	115.05	.7550	34007550	118.25
.6355	34006355	110.75	.6655	34006655	110.75	.6955	34006955	115.05	.7255	34007255	115.05	.7555	34007555	118.25

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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	\$47.45	-	-	341006SF	\$66.85	343006SF	344006SF	\$61.85	345006SF	\$56.80	-	-
.2041 - .2210	340007SF	47.45	-	-	341007SF	66.85	343007SF	344007SF	61.85	345007SF	56.80	-	-
.2211 - .2380	34002344SF	50.15	-	-	34102344SF	66.85	34302344SF	34402344SF	61.85	34502344SF	56.80	-	-
.2381 - .2530	340008SF	47.45	340208SF	\$54.75	341008SF	66.85	343008SF	344008SF	61.85	345008SF	56.80	-	-
.2531 - .2840	340009SF	48.35	340209SF	55.55	341009SF	67.00	343009SF	344009SF	61.85	345009SF	58.10	-	-
.2841 - .3150	340010SF	48.35	340210SF	55.55	341010SF	67.00	343010SF	344010SF	71.80	345010SF	58.10	346510SF	\$87.60
.3151 - .3470	340011SF	50.05	340211SF	57.65	341011SF	73.65	343011SF	344011SF	72.60	345011SF	60.10	346511SF	87.60
.3471 - .3780	340012SF	45.90	340212SF	52.95	341012SF	74.35	343012SF	344012SF	78.65	345012SF	60.10	346512SF	81.95
.3781 - .4090	340013SF	52.50	340213SF	60.40	341013SF	77.70	343013SF	344013SF	79.65	345013SF	63.00	346513SF	86.90
.4091 - .4410	340014SF	55.95	340214SF	64.40	341014SF	80.80	343014SF	344014SF	94.50	345014SF	68.20	346514SF	86.90
.4411 - .4720	340015SF	56.95	340215SF	66.25	341015SF	85.85	343015SF	344015SF	94.50	345015SF	73.65	346515SF	92.20
.4721 - .5030	340016SF	67.85	340216SF	77.90	341016SF	89.05	343016SF	344016SF	103.30	345016SF	79.05	346516SF	92.20
.5031 - .5340	340017SF	73.65	340217SF	84.25	341017SF	91.85	343017SF	344017SF	103.30	345017SF	81.00	346517SF	94.50
.5341 - .5660	340018SF	73.65	340218SF	84.25	341018SF	91.85	343018SF	344018SF	109.00	345018SF	81.00	346518SF	94.50
.5661 - .5970	340019SF	76.65	340219SF	88.05	341019SF	94.50	343019SF	344019SF	109.00	345019SF	84.40	346519SF	98.65
.5971 - .6280	340020SF	76.65	340220SF	88.05	341020SF	94.50	343020SF	344020SF	111.90	345020SF	84.40	346520SF	98.65
.6281 - .6590	340021SF	77.95	340221SF	89.75	341021SF	97.20	343021SF	344021SF	111.90	345021SF	85.85	346521SF	107.90
.6591 - .6910	340022SF	77.95	340222SF	89.75	341022SF	103.55	343022SF	344022SF	117.05	345022SF	85.85	346522SF	107.90
.6911 - .7220	340023SF	81.65	340223SF	93.90	341023SF	104.95	343023SF	344023SF	117.05	345023SF	89.75	346523SF	112.05
.7221 - .7530	340024SF	81.65	340224SF	93.90	341024SF	106.60	343024SF	344024SF	120.05	345024SF	89.75	346524SF	112.05
.7531 - .7840	340025SF	84.45	340225SF	96.65	341025SF	109.30	343025SF	344025SF	120.05	345025SF	92.75	346525SF	120.80
.7841 - .8160	340026SF	84.45	340226SF	96.65	341026SF	109.30	343026SF	344026SF	130.40	345026SF	92.75	346526SF	120.80
.8161 - .8470	340027SF	87.85	340227SF	100.95	341027SF	115.20	343027SF	344027SF	130.40	345027SF	96.50	346527SF	125.40
.8471 - .8780	340028SF	91.05	340228SF	104.70	341028SF	119.65	343028SF	344028SF	142.50	345028SF	100.25	346528SF	130.15
.8781 - .9090	340029SF	106.30	340229SF	122.85	341029SF	139.45	343029SF	344029SF	142.50	345029SF	116.65	346529SF	138.50
.9091 - .9410	340030SF	106.30	340230SF	122.85	341030SF	139.45	343030SF	344030SF	156.90	345030SF	116.65	346530SF	138.50
.9411 - .9720	340031SF	111.30	340231SF	127.85	341031SF	146.10	343031SF	344031SF	156.90	345031SF	122.25	346531SF	143.85
.9721 - 1.0030	340032SF	111.30	340232SF	127.85	341032SF	146.10	343032SF	344032SF	164.70	345032SF	122.25	346532SF	143.85
1.0031 - 1.0660	340034SF	115.00	340234SF	175.75	341034SF	156.85	343034SF	344034SF	164.70	345034SF	126.55	346534SF	157.75
1.0661 - 1.1280	340036SF	124.40	340236SF	187.25	341036SF	161.65	343036SF	344036SF	192.70	345036SF	136.80	346536SF	157.75
1.1281 - 1.1905	340038SF	130.60	340238SF	198.45	341038SF	169.80	343038SF	344038SF	200.90	345038SF	143.10	346538SF	172.10
1.1906 - 1.2530	340040SF	138.05	340240SF	220.45	341040SF	179.80	343040SF	344040SF	235.45	345040SF	167.15	346540SF	172.10
1.2531 - 1.3155	340042SF	145.25	340242SF	237.75	341042SF	198.85	343042SF	344042SF	235.45	345042SF	167.15	346542SF	190.85
1.3156 - 1.3780	340044SF	154.15	340244SF	247.25	341044SF	218.00	343044SF	344044SF	238.70	345044SF	169.55	346544SF	199.75
1.3781 - 1.4405	340046SF	171.95	340246SF	252.50	341046SF	230.85	343046SF	344046SF	278.30	345046SF	187.35	346546SF	235.95
1.4406 - 1.5030	340048SF	181.75	340248SF	265.00	341048SF	243.90	343048SF	344048SF	334.25	345048SF	224.95	346548SF	243.00

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	\$64.25	.2381 - .2530	\$116.20	\$90.20	\$81.55	\$77.40	\$73.05	\$69.50
.2812	9/32	1	4	1 1/2	1/2	6	340209	65.45	.2531 - .2840	117.50	91.45	82.80	78.55	74.20	70.50
.3125	5/16	1	4	1 1/2	1/2	6	340210	65.45	.2841 - .3150	117.50	91.45	82.80	78.55	74.20	70.50
.3438	11/32	1	4	1 1/2	5/8	6	340211	67.90	.3151 - .3470	119.95	93.90	85.10	80.95	76.55	73.10
.3750	3/8	1	4	1 3/4	5/8	7	340212	62.30	.3471 - .3780	110.05	86.15	78.05	74.35	70.20	67.00
.4062	13/32	1	4	1 3/4	5/8	7	340213	71.30	.3781 - .4090	123.25	97.20	88.40	84.40	79.85	76.35
.4375	7/16	1	4	1 3/4	5/8	7	340214	75.80	.4091 - .4410	127.85	101.80	93.05	88.90	84.45	80.85
.4688	15/32	1	4	1 3/4	5/8	7	340215	77.80	.4411 - .4720	129.90	103.80	95.05	90.90	86.45	82.95
.5000	1/2	1	6	2	5/8	8	340216	91.65	.4721 - .5030	148.95	120.20	110.70	106.15	101.20	97.35
.5312	17/32	1	6	2	5/8	8	340217	99.05	.5031 - .5340	156.30	127.45	117.90	113.45	108.45	104.45
.5625	9/16	1	6	2	5/8	8	340218	99.05	.5341 - .5660	156.30	127.45	117.90	113.45	108.45	104.45
.5938	19/32	1	6	2	5/8	8	340219	103.70	.5661 - .5970	161.05	132.30	122.70	118.20	113.15	109.40
.6250	5/8	2	6	2 1/4	5/8	9	340220	103.70	.5971 - .6280	161.05	132.30	122.70	118.20	113.15	109.40
.6562	21/32	2	6	2 1/4	5/8	9	340221	105.55	.6281 - .6590	162.80	134.20	124.65	120.05	115.05	111.15
.6875	11/16	2	6	2 1/4	5/8	9	340222	105.55	.6591 - .6910	162.80	134.20	124.65	120.05	115.05	111.15
.7188	23/32	2	6	2 1/4	5/8	9	340223	110.40	.6911 - .7220	167.70	138.90	129.30	124.85	119.95	115.95
.7500	3/4	2	6	2 1/2	3/4	9 1/2	340224	110.40	.7221 - .7530	167.70	138.90	129.30	124.85	119.95	115.95
.7812	25/32	2	6	2 1/2	3/4	9 1/2	340225	113.85	.7531 - .7840	171.10	142.35	132.85	128.30	123.25	119.40
.8125	13/16	2	6	2 1/2	3/4	9 1/2	340226	113.85	.7841 - .8160	171.10	142.35	132.85	128.30	123.25	119.40
.8438	27/32	2	6	2 1/2	3/4	9 1/2	340227	118.75	.8161 - .8470	176.00	147.25	137.75	133.15	128.30	124.25
.8750	7/8	2	6	2 5/8	3/4	10	340228	123.25	.8471 - .8780	182.60	152.90	142.95	138.05	133.05	129.00
.9062	29/32	2	6	2 5/8	3/4	10	340229	144.55	.8781 - .9090	203.90	174.05	164.20	159.35	154.35	150.30
.9375	15/16	3	8	2 5/8	3/4	10	340230	144.55	.9091 - .9410	203.90	174.05	164.20	159.35	154.35	150.30
.9688	31/32	3	8	2 5/8	3/4	10	340231	150.70	.9411 - .9720	210.00	180.20	170.15	165.50	160.45	156.35
1.0000	1	3	8	2 3/4	3/4	10 1/2	340232	150.70	.9721 - 1.0030	210.00	180.20	170.15	165.50	160.45	156.35
1.0625	1 1/16	3	8	2 3/4	3/4	10 1/2	340234	206.80	1.0031 - 1.0660	263.85	235.30	225.80	221.20	216.25	212.40
1.1250	1 1/8	3	8	2 7/8	7/8	11	340236	220.35	1.0661 - 1.1280	277.30	248.65	239.20	234.55	229.80	225.95
1.1875	1 3/16	3	8	2 7/8	7/8	11	340238	233.40	1.1281 - 1.1905	290.50	261.75	252.35	247.60	242.75	239.00
1.2500	1 1/4	4	8	3	7/8	11 1/2	340240	259.40	1.1906 - 1.2530	316.35	287.75	278.25	273.55	268.80	264.90
1.3125	1 3/16	4	8	3	7/8	11 1/2	340242	279.60	1.2531 - 1.3155	336.55	308.05	298.50	293.95	289.05	285.20
1.3750	1 3/8	4	8	3 1/4	7/8	12	340244	290.90	1.3156 - 1.3780	347.90	319.30	309.80	305.30	300.30	296.65
1.4375	1 7/16	4	8	3 1/4	7/8	12	340246	296.95	1.3781 - 1.4405	353.95	325.55	315.80	311.35	306.30	302.55
1.5000	1 1/2	4	8	3 1/2	7/8	12 1/2	340248	311.75	1.4406 - 1.5030	368.75	340.35	330.65	326.15	321.15	317.35
1.5625	1 5/8	4	8	3 1/2	7/8	12 1/2	340250	336.50	1.5031 - 1.5660	393.45	365.00	355.35	350.85	345.90	342.10
1.6250	1 5/8	4	8	3 3/4	7/8	13	340252	348.05	1.5661 - 1.6280	405.15	376.65	367.00	362.50	357.65	353.75
1.6875	1 11/16	4	8	3 3/4	7/8	13	340254	391.45	1.6281 - 1.6910	448.50	419.90	410.45	405.70	401.05	397.20
1.7500	1 3/4	4	10	4	7/8	13 1/2	340256	391.45	1.6911 - 1.7530	448.50	419.90	410.45	405.70	401.05	397.20
1.8125	1 13/16	4	10	4	7/8	13 1/2	340258	391.45	1.7531 - 1.8160	448.50	419.90	410.45	405.70	401.05	397.20
1.8750	1 7/8	4	10	4 1/4	7/8	14	340260	410.25	1.8161 - 1.8780	467.10	438.60	429.00	424.40	419.65	415.75
1.9375	1 15/16	4	10	4 1/4	7/8	14	340262	410.25	1.8781 - 1.9410	467.10	438.60	429.00	424.40	419.65	415.75
2.0000	2	4	12	4 1/4	7/8	14	340264	410.25	1.9411 - 2.0030	467.10	438.60	429.00	424.40	419.65	415.75

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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	\$81.55	6.000 - 6.426	\$120.80	\$94.75	\$86.10	\$81.70	\$77.40	\$73.65	\$68.70
6.5	.2559	1	4	1 ½	½	6	3402065	82.80	6.427 - 7.214	121.85	95.95	87.25	82.95	78.55	74.90	70.00
7.0	.2756	1	4	1 ½	½	6	3402070	82.80	-	-	-	-	-	-	-	-
7.5	.2953	1	4	1 ½	½	6	3402075	82.80	7.215 - 8.001	121.85	95.95	87.25	82.95	78.55	74.90	70.00
8.0	.3150	1	4	1 ½	½	6	3402080	82.80	-	-	-	-	-	-	-	-
8.5	.3346	1	4	1 ½	¾	6	3402085	85.10	8.002 - 8.814	124.25	98.25	89.70	85.25	80.95	77.40	72.30
9.0	.3543	1	4	1 ¾	¾	7	3402090	78.05	8.815 - 9.601	114.05	90.20	82.30	78.35	74.35	71.15	66.40
9.5	.3740	1	4	1 ¾	¾	7	3402095	78.05	-	-	-	-	-	-	-	-
10.0	.3937	1	4	1 ¾	¾	7	3402100	88.40	9.602 - 10.389	127.55	101.55	93.00	88.70	84.40	80.70	75.75
10.5	.4134	1	4	1 ¾	¾	7	3402105	93.05	10.390 - 11.201	132.20	106.30	97.50	93.30	88.90	85.15	80.35
11.0	.4331	1	4	1 ¾	¾	7	3402110	93.05	-	-	-	-	-	-	-	-
11.5	.4528	1	4	1 ¾	¾	7	3402115	95.05	11.202 - 11.989	134.20	108.40	99.50	95.35	90.90	87.30	82.40
12.0	.4724	1	6	2	¾	8	3402120	110.70	11.990 - 12.776	153.60	125.25	115.60	110.85	106.15	102.10	96.50
12.5	.4921	1	6	2	¾	8	3402125	110.70	-	-	-	-	-	-	-	-
13.0	.5118	1	6	2	¾	8	3402130	117.90	12.777 - 13.564	161.05	132.45	122.85	118.20	113.45	109.40	103.80
13.5	.5315	1	6	2	¾	8	3402135	117.90	-	-	-	-	-	-	-	-
14.0	.5512	1	6	2	¾	8	3402140	117.90	13.565 - 14.376	161.05	132.45	122.85	118.20	113.45	109.40	103.80
14.5	.5709	1	6	2	¾	8	3402145	122.70	14.377 - 15.164	165.80	137.20	127.55	123.00	118.20	114.15	108.60
15.0	.5906	1	6	2	¾	8	3402150	122.70	-	-	-	-	-	-	-	-
15.5	.6102	2	6	2 ¼	¾	9	3402155	122.70	15.165 - 15.951	165.80	137.20	127.55	123.00	118.20	114.15	108.60
16.0	.6299	2	6	2 ¼	¾	9	3402160	124.65	15.952 - 16.739	167.70	138.95	129.55	124.85	120.05	115.95	110.60
16.5	.6496	2	6	2 ¼	¾	9	3402165	124.65	-	-	-	-	-	-	-	-
17.0	.6693	2	6	2 ¼	¾	9	3402170	124.65	16.740 - 17.551	167.70	138.95	129.55	124.85	120.05	115.95	110.60
17.5	.6890	2	6	2 ¼	¾	9	3402175	124.65	-	-	-	-	-	-	-	-
18.0	.7087	2	6	2 ¼	¾	9	3402180	129.30	17.552 - 18.339	172.55	143.85	134.35	129.60	124.85	120.90	115.45
18.5	.7283	2	6	2 ½	¾	9 ½	3402185	129.30	18.340 - 19.126	172.55	143.85	134.35	129.60	124.85	120.90	115.45
19.0	.7480	2	6	2 ½	¾	9 ½	3402190	129.30	-	-	-	-	-	-	-	-
19.5	.7677	2	6	2 ½	¾	9 ½	3402195	132.85	19.127 - 19.914	175.85	147.25	137.75	133.05	128.30	124.15	118.75
20.0	.7874	2	6	2 ½	¾	9 ½	3402200	132.85	19.915 - 20.726	175.85	147.25	137.75	133.05	128.30	124.15	118.75
20.5	.8071	2	6	2 ½	¾	9 ½	3402205	132.85	-	-	-	-	-	-	-	-
21.0	.8268	2	6	2 ½	¾	9 ½	3402210	137.75	20.727 - 21.514	180.90	152.30	142.55	137.90	133.15	129.10	123.70
21.5	.8465	2	6	2 ½	¾	9 ½	3402215	137.75	-	-	-	-	-	-	-	-
22.0	.8661	2	6	2 ¾	¾	10	3402220	137.75	21.515 - 22.301	180.90	152.30	142.55	137.90	133.15	129.10	123.70
22.5	.8858	2	6	2 ¾	¾	10	3402225	164.20	22.302 - 23.089	208.95	179.30	169.30	164.35	159.35	155.20	149.60
23.0	.9055	2	6	2 ¾	¾	10	3402230	164.20	-	-	-	-	-	-	-	-
23.5	.9252	3	8	2 ¾	¾	10	3402235	164.20	23.090 - 23.901	208.95	179.30	169.30	164.35	159.35	155.20	149.60
24.0	.9449	3	8	2 ¾	¾	10	3402240	170.15	23.902 - 24.689	215.10	185.40	175.30	170.45	165.50	161.35	155.60
24.5	.9646	3	8	2 ¾	¾	10	3402245	170.15	-	-	-	-	-	-	-	-
25.0	.9843	3	8	2 ¾	¾	10 ½	3402250	170.15	24.690 - 25.476	215.10	185.40	175.30	170.45	165.50	161.35	155.60
25.5	1.0039	3	8	2 ¾	¾	10 ½	3402255	225.80	25.477 - 27.076	268.75	240.15	230.70	226.05	221.20	217.30	211.85
26.0	1.0236	3	8	2 ¾	¾	10 ½	3402260	225.80	-	-	-	-	-	-	-	-
27.0	1.0630	3	8	2 ¾	¾	10 ½	3402270	225.80	-	-	-	-	-	-	-	-
28.0	1.1024	3	8	2 ¾	¾	11	3402280	239.20	27.077 - 28.651	282.05	253.55	244.05	239.40	234.55	230.70	225.20
29.0	1.1417	3	8	2 ¾	¾	11	3402290	252.35	28.652 - 30.239	295.10	266.65	257.25	252.50	247.60	243.80	238.25
30.0	1.1811	3	8	2 ¾	¾	11	3402300	252.35	-	-	-	-	-	-	-	-
31.0	1.2205	4	8	3	¾	11 ½	3402310	278.25	30.240 - 31.826	321.10	292.75	283.15	278.40	273.55	269.65	264.20
32.0	1.2598	4	8	3	¾	11 ½	3402320	298.50	31.827 - 33.414	341.30	312.95	303.30	298.70	293.95	289.90	284.50
33.0	1.2992	4	8	3	¾	11 ½	3402330	298.50	-	-	-	-	-	-	-	-
34.0	1.3386	4	8	3 ¼	¾	12	3402340	309.80	33.415 - 35.001	352.65	324.25	314.70	310.05	305.30	301.30	295.85
35.0	1.3780	4	8	3 ¼	¾	12	3402350	309.80	-	-	-	-	-	-	-	-
36.0	1.4173	4	8	3 ¼	¾	12	3402360	315.80	35.002 - 36.589	358.80	330.30	320.80	316.20	311.35	307.35	301.85
37.0	1.4567	4	8	3 ½	¾	12 ½	3402370	330.65	36.590 - 38.176	373.60	345.15	335.50	330.95	326.15	322.15	316.80
38.0	1.4961	4	8	3 ½	¾	12 ½	3402380	330.65	-	-	-	-	-	-	-	-
39.0	1.5354	4	8	3 ½	¾	12 ½	3402390	355.35	38.177 - 39.776	398.25	369.85	360.25	355.65	350.85	346.75	341.30
40.0	1.5748	4	8	3 ¾	¾	13	3402400	367.00	39.777 - 41.351	409.90	381.50	371.90	367.25	362.50	358.50	352.95
41.0	1.6142	4	8	3 ¾	¾	13	3402410	367.00	-	-	-	-	-	-	-	-

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

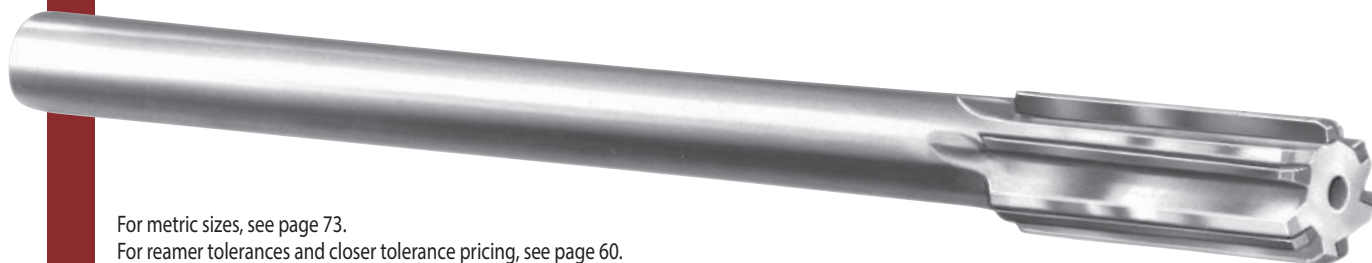
Made in U.S.A.

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	\$66.70	.1770 - .2040	\$120.20	\$93.35	\$84.60	\$80.25	\$75.60	\$71.95
.2188	7/32	13/64	4	1 1/2	6	345007	66.70	.2041 - .2210	120.20	93.35	84.60	80.25	75.60	71.95
.2344	15/64	7/32	4	1 1/2	6	34502344	66.70	.2211 - .2380	120.20	93.35	84.60	80.25	75.60	71.95
.2500	1/4	15/64	4	1 1/2	6	345008	66.70	.2381 - .2530	120.20	93.35	84.60	80.25	75.60	71.95
.2812	9/32	15/64	4	1 1/2	6	345009	68.20	.2531 - .2840	121.65	94.80	85.90	81.65	76.95	73.45
.3125	5/16	9/32	4	1 1/2	6	345010	68.20	.2841 - .3150	121.65	94.80	85.90	81.65	76.95	73.45
.3438	11/32	9/32	4	1 1/2	6	345011	70.60	.3151 - .3470	124.10	97.40	88.30	84.15	79.50	75.90
.3750	3/8	5/16	4	1 3/4	7	345012	70.60	.3471 - .3780	124.10	97.40	88.30	84.15	79.50	75.90
.4062	13/32	5/16	4	1 3/4	7	345013	74.20	.3781 - .4090	127.55	100.95	91.90	87.70	83.00	79.40
.4375	7/16	3/8	4	1 3/4	7	345014	80.25	.4091 - .4410	133.70	106.85	97.90	93.75	89.05	85.45
.4688	15/32	3/8	4	1 3/4	7	345015	86.60	.4411 - .4720	140.10	113.45	104.30	100.05	95.50	91.90
.5000	1/2	7/16	6	2	8	345016	92.75	.4721 - .5030	150.10	121.40	111.90	107.25	102.40	98.35
.5312	17/32	7/16	6	2	8	345017	95.45	.5031 - .5340	152.75	124.00	114.45	109.75	104.85	101.00
.5625	9/16	7/16	6	2	8	345018	95.45	.5341 - .5660	152.75	124.00	114.45	109.75	104.85	101.00
.5938	19/32	7/16	6	2	8	345019	99.20	.5661 - .5970	156.45	127.60	118.20	113.65	108.60	104.80
.6250	5/8	9/16	6	2	9	345020	99.20	.5971 - .6280	156.45	127.60	118.20	113.65	108.60	104.80
.6562	21/32	9/16	6	2	9	345021	100.95	.6281 - .6590	158.20	129.55	119.95	115.45	110.40	106.55
.6875	11/16	9/16	6	2	9	345022	100.95	.6591 - .6910	158.20	129.55	119.95	115.45	110.40	106.55
.7188	23/32	9/16	6	2	9	345023	105.55	.6911 - .7220	162.80	134.20	124.65	120.05	115.05	111.15
.7500	3/4	5/8	6	2	9 1/2	345024	105.55	.7221 - .7530	162.80	134.20	124.65	120.05	115.05	111.15
.7812	25/32	5/8	6	2	9 1/2	345025	109.25	.7531 - .7840	166.50	137.80	128.30	123.70	118.75	114.90
.8125	13/16	5/8	6	2	9 1/2	345026	109.25	.7841 - .8160	166.50	137.80	128.30	123.70	118.75	114.90
.8438	27/32	5/8	6	2	9 1/2	345027	113.65	.8161 - .8470	170.95	142.10	132.55	127.95	123.10	119.10
.8750	7/8	3/4	6	2 1/4	10	345028	117.90	.8471 - .8780	177.30	147.65	137.60	132.75	127.60	123.70
.9062	29/32	3/4	6	2 1/4	10	345029	137.20	.8781 - .9090	196.60	166.85	156.90	152.15	147.10	143.05
.9375	15/16	3/4	8	2 1/4	10	345030	137.20	.9091 - .9410	196.60	166.85	156.90	152.15	147.10	143.05
.9688	31/32	3/4	8	2 1/4	10	345031	143.70	.9411 - .9720	203.20	173.45	163.50	158.75	153.60	149.60
1.0000	1	7/8	8	2 1/4	10 1/2	345032	143.70	.9721 - 1.0030	203.20	173.45	163.50	158.75	153.60	149.60
1.0625	1 1/16	7/8	8	2 1/4	10 1/2	345034	148.80	1.0031 - 1.0660	205.80	177.15	167.65	163.05	158.20	154.35
1.1250	1 1/8	7/8	8	2 1/4	11	345036	160.95	1.0661 - 1.1280	217.90	189.50	179.80	175.30	170.30	166.50
1.1875	1 3/16	1	8	2 1/4	11	345038	168.40	1.1281 - 1.1905	225.35	196.85	187.35	182.75	177.85	174.00
1.2500	1 1/4	1	8	2 1/2	11 1/2	345040	196.60	1.1906 - 1.2530	253.55	225.10	215.45	210.95	206.05	202.15
1.3125	1 5/16	1	8	2 1/2	11 1/2	345042	196.60	1.2531 - 1.3155	253.55	225.10	215.45	210.95	206.05	202.15
1.3750	1 3/8	1	8	2 1/2	12	345044	199.50	1.3156 - 1.3780	256.45	227.95	218.30	213.85	208.95	205.05
1.4375	1 7/16	1 1/4	8	2 1/2	12	345046	220.45	1.3781 - 1.4405	277.45	248.75	239.30	234.80	229.85	226.05
1.5000	1 1/2	1 1/4	8	2 1/2	12 1/2	345048	264.60	1.4406 - 1.5030	321.55	292.95	283.55	278.95	274.00	270.25
1.5625	1 9/16	1 1/4	8	2 1/2	12 1/2	345050	349.30	1.5031 - 1.5660	406.25	377.65	368.15	363.55	358.70	354.90
1.6250	1 5/8	1 1/4	8	2 3/4	13	345052	361.15	1.5661 - 1.6280	418.20	389.45	380.05	375.60	370.60	366.75
1.6875	1 11/16	1 1/4	8	2 3/4	13	345054	396.50	1.6281 - 1.6910	453.60	425.10	415.60	410.90	406.10	402.25
1.7500	1 3/4	1 1/4	10	3	13 1/2	345056	396.50	1.6911 - 1.7530	453.60	425.10	415.60	410.90	406.10	402.25
1.8125	1 13/16	1 1/2	10	3	13 1/2	345058	405.70	1.7531 - 1.8160	462.90	434.40	424.65	420.20	415.20	411.45
1.8750	1 7/8	1 1/2	10	3 1/4	14	345060	425.55	1.8161 - 1.8780	482.50	453.90	444.50	439.90	434.90	431.15
1.9375	1 15/16	1 1/2	10	3 1/4	14	345062	451.25	1.8781 - 1.9410	508.10	479.50	470.00	465.50	460.65	456.75
2.0000	2	1 1/2	12	3 1/4	14	345064	451.25	1.9411 - 2.0030	508.10	479.50	470.00	465.50	460.65	456.75

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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	\$84.60	4.494 - 5.182	\$124.80	\$98.05	\$89.05	\$84.70	\$80.25	\$76.50	\$71.35
5.0	.1969	1/64	4	1 1/2	6	3450050	84.60	-	-	-	-	-	-	-	-
5.5	.2165	1/64	4	1 1/2	6	3450055	84.60	5.183 - 5.613	124.80	98.05	89.05	84.70	80.25	76.50	71.35
6.0	.2362	7/32	4	1 1/2	6	3450060	84.60	5.614 - 6.045	124.80	98.05	89.05	84.70	80.25	76.50	71.35
6.3	.2480	15/64	4	1 1/2	6	3450063	84.60	6.046 - 6.426	124.80	98.05	89.05	84.70	80.25	76.50	71.35
6.5	.2559	15/64	4	1 1/2	6	3450065	85.90	6.427 - 7.214	126.00	99.40	90.45	86.10	81.65	77.80	72.80
7.0	.2756	15/64	4	1 1/2	6	3450070	85.90	-	-	-	-	-	-	-	-
7.5	.2953	9/32	4	1 1/2	6	3450075	85.90	7.215 - 8.001	126.00	99.40	90.45	86.10	81.65	77.80	72.80
8.0	.3150	9/32	4	1 1/2	6	3450080	85.90	-	-	-	-	-	-	-	-
8.5	.3346	9/32	4	1 1/2	6	3450085	88.30	8.002 - 8.814	128.60	102.00	93.00	88.60	84.15	80.40	75.25
9.0	.3543	5/16	4	1 3/4	7	3450090	88.30	8.815 - 9.601	128.60	102.00	93.00	88.60	84.15	80.40	75.25
9.5	.3740	5/16	4	1 3/4	7	3450095	88.30	-	-	-	-	-	-	-	-
10.0	.3937	5/16	4	1 3/4	7	3450100	91.90	9.602 - 10.389	132.15	105.45	96.45	92.15	87.70	83.95	78.70
10.5	.4134	3/8	4	1 3/4	7	3450105	97.90	10.390 - 11.201	138.30	111.35	102.50	98.10	93.75	89.90	84.75
11.0	.4331	3/8	4	1 3/4	7	3450110	97.90	-	-	-	-	-	-	-	-
11.5	.4528	3/8	4	1 3/4	7	3450115	104.30	11.202 - 11.989	144.65	117.90	109.00	104.65	100.05	96.35	91.20
12.0	.4724	7/16	6	2	8	3450120	111.90	11.990 - 12.776	154.90	126.40	116.75	112.05	107.25	103.25	97.75
12.5	.4921	7/16	6	2	8	3450125	111.90	-	-	-	-	-	-	-	-
13.0	.5118	7/16	6	2	8	3450130	114.45	12.777 - 13.564	157.60	128.95	119.35	114.60	109.75	105.80	100.35
13.5	.5315	7/16	6	2	8	3450135	114.45	-	-	-	-	-	-	-	-
14.0	.5512	7/16	6	2	8	3450140	114.45	13.565 - 14.376	157.60	128.95	119.35	114.60	109.75	105.80	100.35
14.5	.5709	7/16	6	2	8	3450145	118.20	14.377 - 15.164	161.25	132.60	123.10	118.35	113.65	109.55	104.10
15.0	.5906	7/16	6	2	8	3450150	118.20	-	-	-	-	-	-	-	-
15.5	.6102	9/16	6	2	9	3450155	118.20	15.165 - 15.951	161.25	132.60	123.10	118.35	113.65	109.55	104.10
16.0	.6299	9/16	6	2	9	3450160	119.95	15.952 - 16.739	162.90	134.45	124.85	120.10	115.45	111.30	105.80
16.5	.6496	9/16	6	2	9	3450165	119.95	-	-	-	-	-	-	-	-
17.0	.6693	9/16	6	2	9	3450170	119.95	16.740 - 17.551	162.90	134.45	124.85	120.10	115.45	111.30	105.80
17.5	.6890	9/16	6	2	9	3450175	119.95	-	-	-	-	-	-	-	-
18.0	.7087	9/16	6	2	9	3450180	124.65	17.552 - 18.339	167.70	138.95	129.55	124.85	120.05	115.95	110.60
18.5	.7283	5/8	6	2	9 1/2	3450185	124.65	18.340 - 19.126	167.70	138.95	129.55	124.85	120.05	115.95	110.60
19.0	.7480	5/8	6	2	9 1/2	3450190	124.65	-	-	-	-	-	-	-	-
19.5	.7677	5/8	6	2	9 1/2	3450195	128.30	19.127 - 19.914	171.30	142.90	133.15	128.45	123.70	119.65	114.15
20.0	.7874	5/8	6	2	9 1/2	3450200	128.30	19.915 - 20.726	171.30	142.90	133.15	128.45	123.70	119.65	114.15
20.5	.8071	5/8	6	2	9 1/2	3450205	128.30	-	-	-	-	-	-	-	-
21.0	.8268	5/8	6	2	9 1/2	3450210	132.55	20.727 - 21.514	175.70	147.10	137.50	132.85	127.95	124.00	118.40
21.5	.8465	5/8	6	2	9 1/2	3450215	132.55	-	-	-	-	-	-	-	-
22.0	.8661	3/4	6	2 1/4	10	3450220	132.55	21.515 - 22.301	175.70	147.10	137.50	132.85	127.95	124.00	118.40
22.5	.8858	3/4	6	2 1/4	10	3450225	156.90	22.302 - 23.089	201.65	172.00	162.05	157.05	152.15	147.95	142.20
23.0	.9055	3/4	6	2 1/4	10	3450230	156.90	-	-	-	-	-	-	-	-
23.5	.9252	3/4	8	2 1/4	10	3450235	156.90	23.090 - 23.901	201.65	172.00	162.05	157.05	152.15	147.95	142.20
24.0	.9449	3/4	8	2 1/4	10	3450240	163.50	23.902 - 24.689	208.10	178.60	168.50	163.65	158.75	154.60	148.95
24.5	.9646	3/4	8	2 1/4	10	3450245	163.50	-	-	-	-	-	-	-	-
25.0	.9843	7/8	8	2 1/4	10 1/2	3450250	163.50	24.690 - 25.476	208.10	178.60	168.50	163.65	158.75	154.60	148.95
25.5	1.0039	7/8	8	2 1/4	10 1/2	3450255	167.65	25.477 - 27.076	210.50	182.10	172.55	167.85	163.05	159.15	153.60
26.0	1.0236	7/8	8	2 1/4	10 1/2	3450260	167.65	-	-	-	-	-	-	-	-
27.0	1.0630	7/8	8	2 1/4	10 1/2	3450270	167.65	-	-	-	-	-	-	-	-
28.0	1.1024	7/8	8	2 1/4	11	3450280	179.80	27.077 - 28.651	222.75	194.30	184.65	180.15	175.30	171.30	165.80
29.0	1.1417	1	8	2 1/4	11	3450290	187.35	28.652 - 30.239	230.10	201.80	192.15	187.50	182.75	178.75	173.40
30.0	1.1811	1	8	2 1/4	11	3450300	187.35	-	-	-	-	-	-	-	-
31.0	1.2205	1	8	2 1/2	11 1/2	3450310	215.45	30.240 - 31.826	258.45	229.95	220.45	215.85	210.95	206.90	201.50
32.0	1.2598	1	8	2 1/2	11 1/2	3450320	215.45	31.827 - 33.414	258.45	229.95	220.45	215.85	210.95	206.90	201.50
33.0	1.2992	1	8	2 1/2	11 1/2	3450330	215.45	-	-	-	-	-	-	-	-
34.0	1.3386	1	8	2 1/2	12	3450340	218.30	33.415 - 35.001	261.40	232.85	223.30	218.70	213.85	209.95	204.50
35.0	1.3780	1	8	2 1/2	12	3450350	218.30	-	-	-	-	-	-	-	-
36.0	1.4173	1 1/4	8	2 1/2	12	3450360	239.30	35.002 - 36.589	282.15	253.80	244.15	239.45	234.80	230.80	225.25
37.0	1.4567	1 1/4	8	2 1/2	12 1/2	3450370	283.55	36.590 - 38.176	326.30	297.95	288.35	283.70	278.95	274.95	269.40
38.0	1.4961	1 1/4	8	2 1/2	12 1/2	3450380	283.55	-	-	-	-	-	-	-	-

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

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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	\$84.60	.2070	34502070	\$84.60	.2370	34502370	\$84.60	.2670	34502670	\$85.90	.2970	34502970	\$85.90
.1775	34501775	84.60	.2075	34502075	84.60	.2375	34502375	84.60	.2675	34502675	85.90	.2975	34502975	85.90
.1780	34501780	84.60	.2080	34502080	84.60	.2380	34502380	84.60	.2680	34502680	85.90	.2980	34502980	85.90
.1785	34501785	84.60	.2085	34502085	84.60	.2385	34502385	84.60	.2685	34502685	85.90	.2985	34502985	85.90
.1790	34501790	84.60	.2090	34502090	84.60	.2390	34502390	84.60	.2690	34502690	85.90	.2990	34502990	85.90
.1795	34501795	84.60	.2095	34502095	84.60	.2395	34502395	84.60	.2695	34502695	85.90	.2995	34502995	85.90
.1800	34501800	84.60	.2100	34502100	84.60	.2400	34502400	84.60	.2700	34502700	85.90	.3000	34503000	85.90
.1805	34501805	84.60	.2105	34502105	84.60	.2405	34502405	84.60	.2705	34502705	85.90	.3005	34503005	85.90
.1810	34501810	84.60	.2110	34502110	84.60	.2410	34502410	84.60	.2710	34502710	85.90	.3010	34503010	85.90
.1815	34501815	84.60	.2115	34502115	84.60	.2415	34502415	84.60	.2715	34502715	85.90	.3015	34503015	85.90
.1820	34501820	84.60	.2120	34502120	84.60	.2420	34502420	84.60	.2720	34502720	85.90	.3020	34503020	85.90
.1825	34501825	84.60	.2125	34502125	84.60	.2425	34502425	84.60	.2725	34502725	85.90	.3025	34503025	85.90
.1830	34501830	84.60	.2130	34502130	84.60	.2430	34502430	84.60	.2730	34502730	85.90	.3030	34503030	85.90
.1835	34501835	84.60	.2135	34502135	84.60	.2435	34502435	84.60	.2735	34502735	85.90	.3035	34503035	85.90
.1840	34501840	84.60	.2140	34502140	84.60	.2440	34502440	84.60	.2740	34502740	85.90	.3040	34503040	85.90
.1845	34501845	84.60	.2145	34502145	84.60	.2445	34502445	84.60	.2745	34502745	85.90	.3045	34503045	85.90
.1850	3450047	84.60	.2150	34502150	84.60	.2450	34502450	84.60	.2750	34502750	85.90	.3050	34503050	85.90
.1855	34501855	84.60	.2155	34502155	84.60	.2455	34502455	84.60	.2755	34502755	85.90	.3055	34503055	85.90
.1860	34501860	84.60	.2160	34502160	84.60	.2460	34502460	84.60	.2760	34502760	85.90	.3060	34503060	85.90
.1865	34501865	84.60	.2165	3450055	84.60	.2465	34502465	84.60	.2765	34502765	85.90	.3065	34503065	85.90
.1870	34501870	84.60	.2170	34502170	84.60	.2470	34502470	84.60	.2770	34502770	85.90	.3070	34503070	85.90
.1875	345006	66.70	.2175	34502175	84.60	.2475	34502475	84.60	.2775	34502775	85.90	.3075	34503075	85.90
.1880	34501880	84.60	.2180	34502180	84.60	.2480	3450063	84.60	.2780	34502780	85.90	.3080	34503080	85.90
.1885	34501885	84.60	.2185	34502185	84.60	.2485	34502485	84.60	.2785	34502785	85.90	.3085	34503085	85.90
.1890	3450048	84.60	.2190	34502190	84.60	.2490	34502490	84.60	.2790	34502790	85.90	.3090	34503090	85.90
.1895	34501895	84.60	.2195	34502195	84.60	.2495	34502495	84.60	.2795	3450071	85.90	.3095	34503095	85.90
.1900	34501900	84.60	.2200	34502200	84.60	.2500	345008	66.70	.2800	34502800	85.90	.3100	34503100	85.90
.1905	34501905	84.60	.2205	3450056	84.60	.2505	34502505	84.60	.2805	34502805	85.90	.3105	34503105	85.90
.1910	34501910	84.60	.2210	34502210	84.60	.2510	34502510	84.60	.2810	34502810	85.90	.3110	3450079	85.90
.1915	34501915	84.60	.2215	34502215	84.60	.2515	34502515	84.60	.2815	34502815	85.90	.3115	34503115	85.90
.1920	34501920	84.60	.2220	34502220	84.60	.2520	3450064	84.60	.2820	34502820	85.90	.3120	34503120	85.90
.1925	34501925	84.60	.2225	34502225	84.60	.2525	34502525	84.60	.2825	34502825	85.90	.3125	345010	68.20
.1930	34501930	84.60	.2230	34502230	84.60	.2530	34502530	84.60	.2830	34502830	85.90	.3130	34503130	85.90
.1935	34501935	84.60	.2235	34502235	84.60	.2535	34502535	85.90	.2835	3450072	85.90	.3135	34503135	85.90
.1940	34501940	84.60	.2240	34502240	84.60	.2540	34502540	85.90	.2840	34502840	85.90	.3140	34503140	85.90
.1945	34501945	84.60	.2245	34502245	84.60	.2545	34502545	85.90	.2845	34502845	85.90	.3145	34503145	85.90
.1950	34501950	84.60	.2250	34502250	84.60	.2550	34502550	85.90	.2850	34502850	85.90	.3150	3450080	85.90
.1955	34501955	84.60	.2255	34502255	84.60	.2555	34502555	85.90	.2855	34502855	85.90	.3155	34503155	88.30
.1960	34501960	84.60	.2260	34502260	84.60	.2560	34502560	85.90	.2860	34502860	85.90	.3160	34503160	88.30
.1965	34501965	84.60	.2265	34502265	84.60	.2565	34502565	85.90	.2865	34502865	85.90	.3165	34503165	88.30
.1970	34501970	84.60	.2270	34502270	84.60	.2570	34502570	85.90	.2870	34502870	85.90	.3170	34503170	88.30
.1975	34501975	84.60	.2275	34502275	84.60	.2575	34502575	85.90	.2875	34502875	85.90	.3175	34503175	88.30
.1980	34501980	84.60	.2280	34502280	84.60	.2580	34502580	85.90	.2880	34502880	85.90	.3180	34503180	88.30
.1985	34501985	84.60	.2285	34502285	84.60	.2585	34502585	85.90	.2885	34502885	85.90	.3185	34503185	88.30
.1990	34501990	84.60	.2290	34502290	84.60	.2590	34502590	85.90	.2890	34502890	85.90	.3190	34503190	88.30
.1995	34501995	84.60	.2295	34502295	84.60	.2595	34502595	85.90	.2895	34502895	85.90	.3195	34503195	88.30
.2000	34502000	84.60	.2300	34502300	84.60	.2600	34502600	85.90	.2900	34502900	85.90	.3200	34503200	88.30
.2005	34502005	84.60	.2305	34502305	84.60	.2605	34502605	85.90	.2905	34502905	85.90	.3205	34503205	88.30
.2010	34502010	84.60	.2310	34502310	84.60	.2610	34502610	85.90	.2910	34502910	85.90	.3210	34503210	88.30
.2015	34502015	84.60	.2315	34502315	84.60	.2615	34502615	85.90	.2915	34502915	85.90	.3215	34503215	88.30
.2020	34502020	84.60	.2320	34502320	84.60	.2620	34502620	85.90	.2920	34502920	85.90	.3220	34503220	88.30
.2025	34502025	84.60	.2325	34502325	84.60	.2625	34502625	85.90	.2925	34502925	85.90	.3225	34503225	88.30
.2030	34502030	84.60	.2330	34502330	84.60	.2630	34502630	85.90	.2930	34502930	85.90	.3230	34503230	88.30
.2035	34502035	84.60	.2335	34502335	84.60	.2635	34502635	85.90	.2935	34502935	85.90	.3235	34503235	88.30
.2040	34502040	84.60	.2340	34502340	84.60	.2640	34502640	85.90	.2940	34502940	85.90	.3240	34503240	88.30
.2045	34502045	84.60	.2345	34502345	84.60	.2645	34502645	85.90	.2945	34502945	85.90	.3245	34503245	88.30
.2050	34502050	84.60	.2350	34502350	84.60	.2650	34502650	85.90	.2950	34502950	85.90	.3250	34503250	88.30
.2055	34502055	84.60	.2355	34502355	84.60	.2655	34502655	85.90	.2955	34502955	85.90	.3255	34503255	88.30
.2060	34502060	84.60	.2360	34502360	84.60	.2660	34502660	85.90	.2960	34502960	85.90	.3260	34503260	88.30
.2065	34502065	84.60	.2365	34502365	84.60	.2665	34502665	85.90	.2965	34502965	85.90	.3265	34503265	88.30

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	\$88.30	.3570	34503570	\$88.30	.3870	34503870	\$91.90	.4170	34504170	\$97.90	.4470	34504470	\$104.45
.3275	34503275	88.30	.3575	34503575	88.30	.3875	34503875	91.90	.4175	34504175	97.90	.4475	34504475	104.45
.3280	34503280	88.30	.3580	34503580	88.30	.3880	34503880	91.90	.4180	34504180	97.90	.4480	34504480	104.45
.3285	34503285	88.30	.3585	34503585	88.30	.3885	34503885	91.90	.4185	34504185	97.90	.4485	34504485	104.45
.3290	34503290	88.30	.3590	34503590	88.30	.3890	34503890	91.90	.4190	34504190	97.90	.4490	34504490	104.45
.3295	34503295	88.30	.3595	34503595	88.30	.3895	34503895	91.90	.4195	34504195	97.90	.4495	34504495	104.45
.3300	34503300	88.30	.3600	34503600	88.30	.3900	34503900	91.90	.4200	34504200	97.90	.4500	34504500	104.45
.3305	34503305	88.30	.3605	34503605	88.30	.3905	34503905	91.90	.4205	34504205	97.90	.4505	34504505	104.45
.3310	34503310	88.30	.3610	34503610	88.30	.3910	34503910	91.90	.4210	34504210	97.90	.4510	34504510	104.45
.3315	34503315	88.30	.3615	34503615	88.30	.3915	34503915	91.90	.4215	34504215	97.90	.4515	34504515	104.45
.3320	34503320	88.30	.3620	34503620	88.30	.3920	34503920	91.90	.4220	34504220	97.90	.4520	34504520	104.45
.3325	34503325	88.30	.3625	34503625	88.30	.3925	34503925	91.90	.4225	34504225	97.90	.4525	34504525	104.45
.3330	34503330	88.30	.3630	34503630	88.30	.3930	34503930	91.90	.4230	34504230	97.90	.4530	34504530	104.45
.3335	34503335	88.30	.3635	34503635	88.30	.3935	34503935	91.90	.4235	34504235	97.90	.4535	34504535	104.45
.3340	34503340	88.30	.3640	34503640	88.30	.3940	34503940	91.90	.4240	34504240	97.90	.4540	34504540	104.45
.3345	34503345	88.30	.3645	34503645	88.30	.3945	34503945	91.90	.4245	34504245	97.90	.4545	34504545	104.45
.3350	34503350	88.30	.3650	34503650	88.30	.3950	34503950	91.90	.4250	34504250	97.90	.4550	34504550	104.45
.3355	34503355	88.30	.3655	34503655	88.30	.3955	34503955	91.90	.4255	34504255	97.90	.4555	34504555	104.45
.3360	34503360	88.30	.3660	34503660	88.30	.3960	34503960	91.90	.4260	34504260	97.90	.4560	34504560	104.45
.3365	34503365	88.30	.3665	34503665	88.30	.3965	34503965	91.90	.4265	34504265	97.90	.4565	34504565	104.45
.3370	34503370	88.30	.3670	34503670	88.30	.3970	34503970	91.90	.4270	34504270	97.90	.4570	34504570	104.45
.3375	34503375	88.30	.3675	34503675	88.30	.3975	34503975	91.90	.4275	34504275	97.90	.4575	34504575	104.45
.3380	34503380	88.30	.3680	34503680	88.30	.3980	34503980	91.90	.4280	34504280	97.90	.4580	34504580	104.45
.3385	34503385	88.30	.3685	34503685	88.30	.3985	34503985	91.90	.4285	34504285	97.90	.4585	34504585	104.45
.3390	34503390	88.30	.3690	34503690	88.30	.3990	34503990	91.90	.4290	34504290	97.90	.4590	34504590	104.45
.3395	34503395	88.30	.3695	34503695	88.30	.3995	34503995	91.90	.4295	34504295	97.90	.4595	34504595	104.45
.3400	34503400	88.30	.3700	34503700	88.30	.4000	34504000	91.90	.4300	34504300	97.90	.4600	34504600	104.45
.3405	34503405	88.30	.3705	34503705	88.30	.4005	34504005	91.90	.4305	34504305	97.90	.4605	34504605	104.45
.3410	34503410	88.30	.3710	34503710	88.30	.4010	34504010	91.90	.4310	34504310	97.90	.4610	34504610	104.45
.3415	34503415	88.30	.3715	34503715	88.30	.4015	34504015	91.90	.4315	34504315	97.90	.4615	34504615	104.45
.3420	34503420	88.30	.3720	34503720	88.30	.4020	34504020	91.90	.4320	34504320	97.90	.4620	34504620	104.45
.3425	3450087	88.30	.3725	34503725	88.30	.4025	34504025	91.90	.4325	34504325	97.90	.4625	34504625	104.45
.3430	34503430	88.30	.3730	34503730	88.30	.4030	34504030	91.90	.4330	34504330	97.90	.4630	34504630	104.45
.3435	34503435	88.30	.3735	34503735	88.30	.4035	34504035	91.90	.4335	34504335	97.90	.4635	34504635	104.45
.3440	34503440	88.30	.3740	3450095	88.30	.4040	34504040	91.90	.4340	34504340	97.90	.4640	34504640	104.45
.3445	34503445	88.30	.3745	34503745	88.30	.4045	34504045	91.90	.4345	34504345	97.90	.4645	34504645	104.45
.3450	34503450	88.30	.3750	345012	70.60	.4050	34504050	91.90	.4350	34504350	97.90	.4650	34504650	104.45
.3455	34503455	88.30	.3755	34503755	88.30	.4055	3450103	91.90	.4355	34504355	97.90	.4655	34504655	104.45
.3460	34503460	88.30	.3760	34503760	88.30	.4060	34504060	91.90	.4360	34504360	97.90	.4660	34504660	104.45
.3465	3450088	88.30	.3765	34503765	88.30	.4065	34504065	91.90	.4365	34504365	97.90	.4665	34504665	104.45
.3470	34503470	88.30	.3770	34503770	88.30	.4070	34504070	91.90	.4370	3450111	97.90	.4670	34504670	104.45
.3475	34503475	88.30	.3775	34503775	88.30	.4075	34504075	91.90	.4375	345014	80.25	.4675	34504675	104.45
.3480	34503480	88.30	.3780	3450096	88.30	.4080	34504080	91.90	.4380	34504380	97.90	.4680	34504680	104.45
.3485	34503485	88.30	.3785	34503785	91.90	.4085	34504085	91.90	.4385	34504385	97.90	.4685	3450119	104.45
.3490	34503490	88.30	.3790	34503790	91.90	.4090	34504090	91.90	.4390	34504390	97.90	.4690	34504690	104.45
.3495	34503495	88.30	.3795	34503795	91.90	.4095	34504095	97.90	.4395	34504395	97.90	.4695	34504695	104.45
.3500	34503500	88.30	.3800	34503800	91.90	.4100	34504100	97.90	.4400	34504400	97.90	.4700	34504700	104.45
.3505	34503505	88.30	.3805	34503805	91.90	.4105	34504105	97.90	.4405	34504405	97.90	.4705	34504705	104.45
.3510	34503510	88.30	.3810	34503810	91.90	.4110	34504110	97.90	.4410	34504410	97.90	.4710	34504710	104.45
.3515	34503515	88.30	.3815	34503815	91.90	.4115	34504115	97.90	.4415	34504415	104.45	.4715	34504715	104.45
.3520	34503520	88.30	.3820	34503820	91.90	.4120	34504120	97.90	.4420	34504420	104.45	.4720	34504720	104.45
.3525	34503525	88.30	.3825	34503825	91.90	.4125	34504125	97.90	.4425	34504425	104.45	.4725	34504725	112.00
.3530	34503530	88.30	.3830	34503830	91.90	.4130	34504130	97.90	.4430	34504430	104.45	.4730	34504730	112.00
.3535	34503535	88.30	.3835	34503835	91.90	.4135	34504135	97.90	.4435	34504435	104.45	.4735	34504735	112.00
.3540	34503540	88.30	.3840	34503840	91.90	.4140	34504140	97.90	.4440	34504440	104.45	.4740	34504740	112.00
.3545	34503545	88.30	.3845	34503845	91.90	.4145	34504145	97.90	.4445	34504445	104.45	.4745	34504745	112.00
.3550	34503550	88.30	.3850	34503850	91.90	.4150	34504150	97.90	.4450	34504450	104.45	.4750	34504750	112.00
.3555	34503555	88.30	.3855	34503855	91.90	.4155	34504155	97.90	.4455	34504455	104.45	.4755	34504755	112.00
.3560	34503560	88.30	.3860	34503860	91.90	.4160	34504160	97.90	.4460	34504460	104.45	.4760	34504760	112.00
.3565	34503565	88.30	.3865	34503865	91.90	.4165	34504165	97.90	.4465	34504465	104.45	.4765	34504765	112.00

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	\$112.00	.5070	34505070	\$114.45	.5370	34505370	\$114.45	.5670	34505670	\$118.20	.5970	34505970	\$118.20
.4775	34504775	112.00	.5075	34505075	114.45	.5375	34505375	114.45	.5675	34505675	118.20	.5975	34505975	118.20
.4780	34504780	112.00	.5080	34505080	114.45	.5380	34505380	114.45	.5680	34505680	118.20	.5980	34505980	118.20
.4785	34504785	112.00	.5085	34505085	114.45	.5385	34505385	114.45	.5685	34505685	118.20	.5985	34505985	118.20
.4790	34504790	112.00	.5090	34505090	114.45	.5390	34505390	114.45	.5690	34505690	118.20	.5990	34505990	118.20
.4795	34504795	112.00	.5095	34505095	114.45	.5395	34505395	114.45	.5695	34505695	118.20	.5995	34505995	118.20
.4800	34504800	112.00	.5100	34505100	114.45	.5400	34505400	114.45	.5700	34505700	118.20	.6000	34506000	118.20
.4805	34504805	112.00	.5105	34505105	114.45	.5405	34505405	114.45	.5705	34505705	118.20	.6005	34506005	118.20
.4810	34504810	112.00	.5110	34505110	114.45	.5410	34505410	114.45	.5710	34505710	118.20	.6010	34506010	118.20
.4815	34504815	112.00	.5115	34505115	114.45	.5415	34505415	114.45	.5715	34505715	118.20	.6015	34506015	118.20
.4820	34504820	112.00	.5120	34505120	114.45	.5420	34505420	114.45	.5720	34505720	118.20	.6020	34506020	118.20
.4825	34504825	112.00	.5125	34505125	114.45	.5425	34505425	114.45	.5725	34505725	118.20	.6025	34506025	118.20
.4830	34504830	112.00	.5130	34505130	114.45	.5430	34505430	114.45	.5730	34505730	118.20	.6030	34506030	118.20
.4835	34504835	112.00	.5135	34505135	114.45	.5435	34505435	114.45	.5735	34505735	118.20	.6035	34506035	118.20
.4840	34504840	112.00	.5140	34505140	114.45	.5440	34505440	114.45	.5740	34505740	118.20	.6040	34506040	118.20
.4845	34504845	112.00	.5145	34505145	114.45	.5445	34505445	114.45	.5745	34505745	118.20	.6045	34506045	118.20
.4850	34504850	112.00	.5150	34505150	114.45	.5450	34505450	114.45	.5750	34505750	118.20	.6050	34506050	118.20
.4855	34504855	112.00	.5155	34505155	114.45	.5455	34505455	114.45	.5755	34505755	118.20	.6055	34506055	118.20
.4860	34504860	112.00	.5160	34505160	114.45	.5460	34505460	114.45	.5760	34505760	118.20	.6060	34506060	118.20
.4865	34504865	112.00	.5165	34505165	114.45	.5465	34505465	114.45	.5765	34505765	118.20	.6065	34506065	118.20
.4870	34504870	112.00	.5170	34505170	114.45	.5470	34505470	114.45	.5770	34505770	118.20	.6070	34506070	118.20
.4875	34504875	112.00	.5175	34505175	114.45	.5475	34505475	114.45	.5775	34505775	118.20	.6075	34506075	118.20
.4880	34504880	112.00	.5180	34505180	114.45	.5480	34505480	114.45	.5780	34505780	118.20	.6080	34506080	118.20
.4885	34504885	112.00	.5185	34505185	114.45	.5485	34505485	114.45	.5785	34505785	118.20	.6085	34506085	118.20
.4890	34504890	112.00	.5190	34505190	114.45	.5490	34505490	114.45	.5790	34505790	118.20	.6090	34506090	118.20
.4895	34504895	112.00	.5195	34505195	114.45	.5495	34505495	114.45	.5795	34505795	118.20	.6095	34506095	118.20
.4900	34504900	112.00	.5200	34505200	114.45	.5500	34505500	114.45	.5800	34505800	118.20	.6100	34506100	118.20
.4905	34504905	112.00	.5205	34505205	114.45	.5505	34505505	114.45	.5805	34505805	118.20	.6105	34506105	118.20
.4910	34504910	112.00	.5210	34505210	114.45	.5510	34505510	114.45	.5810	34505810	118.20	.6110	34506110	118.20
.4915	34504915	112.00	.5215	34505215	114.45	.5515	34505515	114.45	.5815	34505815	118.20	.6115	34506115	118.20
.4920	34504920	112.00	.5220	34505220	114.45	.5520	34505520	114.45	.5820	34505820	118.20	.6120	34506120	118.20
.4925	34504925	112.00	.5225	34505225	114.45	.5525	34505525	114.45	.5825	34505825	118.20	.6125	34506125	118.20
.4930	34504930	112.00	.5230	34505230	114.45	.5530	34505530	114.45	.5830	34505830	118.20	.6130	34506130	118.20
.4935	34504935	112.00	.5235	34505235	114.45	.5535	34505535	114.45	.5835	34505835	118.20	.6135	34506135	118.20
.4940	34504940	112.00	.5240	34505240	114.45	.5540	34505540	114.45	.5840	34505840	118.20	.6140	34506140	118.20
.4945	34504945	112.00	.5245	34505245	114.45	.5545	34505545	114.45	.5845	34505845	118.20	.6145	34506145	118.20
.4950	34504950	112.00	.5250	34505250	114.45	.5550	34505550	114.45	.5850	34505850	118.20	.6150	34506150	118.20
.4955	34504955	112.00	.5255	34505255	114.45	.5555	34505555	114.45	.5855	34505855	118.20	.6155	34506155	118.20
.4960	34504960	112.00	.5260	34505260	114.45	.5560	34505560	114.45	.5860	34505860	118.20	.6160	34506160	118.20
.4965	34504965	112.00	.5265	34505265	114.45	.5565	34505565	114.45	.5865	34505865	118.20	.6165	34506165	118.20
.4970	34504970	112.00	.5270	34505270	114.45	.5570	34505570	114.45	.5870	34505870	118.20	.6170	34506170	118.20
.4975	34504975	112.00	.5275	34505275	114.45	.5575	34505575	114.45	.5875	34505875	118.20	.6175	34506175	118.20
.4980	34504980	112.00	.5280	34505280	114.45	.5580	34505580	114.45	.5880	34505880	118.20	.6180	34506180	118.20
.4985	34504985	112.00	.5285	34505285	114.45	.5585	34505585	114.45	.5885	34505885	118.20	.6185	34506185	118.20
.4990	34504990	112.00	.5290	34505290	114.45	.5590	34505590	114.45	.5890	34505890	118.20	.6190	34506190	118.20
.4995	34504995	112.00	.5295	34505295	114.45	.5595	34505595	114.45	.5895	34505895	118.20	.6195	34506195	118.20
.5000	345016	92.75	.5300	34505300	114.45	.5600	34505600	114.45	.5900	34505900	118.20	.6200	34506200	118.20
.5005	34505005	112.00	.5305	34505305	114.45	.5605	34505605	114.45	.5905	34505905	118.20	.6205	34506205	118.20
.5010	34505010	112.00	.5310	34505310	114.45	.5610	34505610	114.45	.5910	34505910	118.20	.6210	34506210	118.20
.5015	34505015	112.00	.5315	3450135	114.45	.5615	34505615	114.45	.5915	34505915	118.20	.6215	34506215	118.20
.5020	34505020	112.00	.5320	34505320	114.45	.5620	34505620	114.45	.5920	34505920	118.20	.6220	3450158	118.20
.5025	34505025	112.00	.5325	34505325	114.45	.5625	345018	95.45	.5925	34505925	118.20	.6225	34506225	118.20
.5030	34505030	112.00	.5330	34505330	114.45	.5630	3450143	114.45	.5930	34505930	118.20	.6230	34506230	118.20
.5035	34505035	114.45	.5335	34505335	114.45	.5635	34505635	114.45	.5935	34505935	118.20	.6235	34506235	118.20
.5040	34505040	114.45	.5340	34505340	114.45	.5640	34505640	114.45	.5940	34505940	118.20	.6240	34506240	118.20
.5045	34505045	114.45	.5345	34505345	114.45	.5645	34505645	114.45	.5945	3450151	118.20	.6245	34506245	118.20
.5050	34505050	114.45	.5350	34505350	114.45	.5650	34505650	114.45	.5950	34505950	118.20	.6250	345020	99.20
.5055	34505055	114.45	.5355	34505355	114.45	.5655	34505655	114.45	.5955	34505955	118.20	.6255	34506255	118.20
.5060	34505060	114.45	.5360	34505360	114.45	.5660	34505660	114.45	.5960	34505960	118.20	.6260	3450159	118.20
.5065	34505065	114.45	.5365	34505365	114.45	.5665	34505665	118.20	.5965	34505965	118.20	.6265	34506265	118.20

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

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.



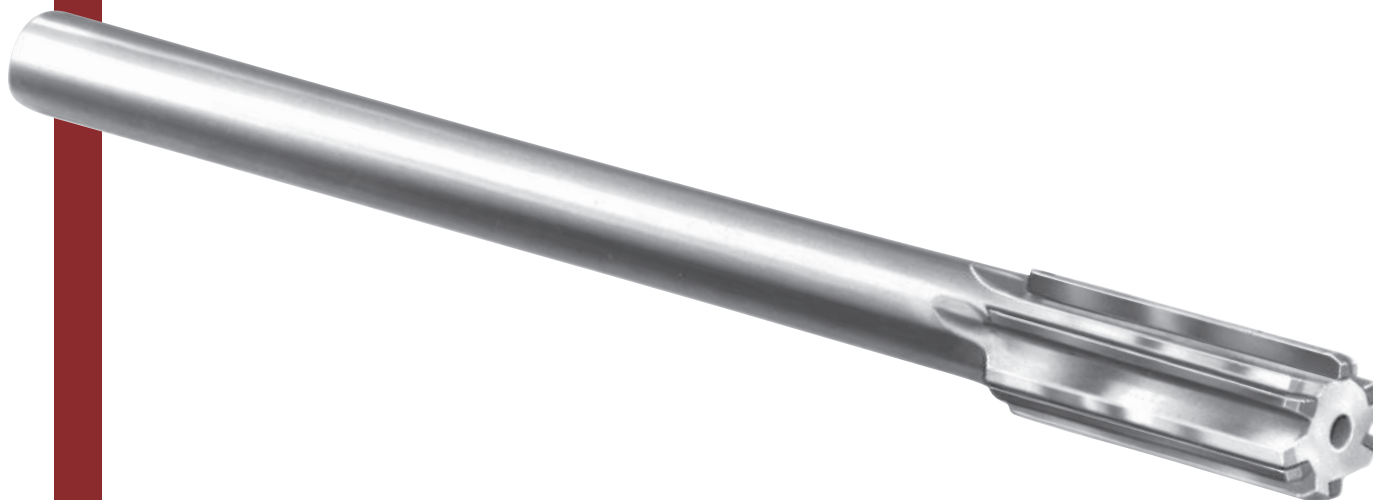
TOOL DIAMETER		MAX. SHANK DIAM.	NO. OF FLTS.	LENGTH		EDP NO.	PRICE EACH	METRIC SIZE RANGE	PRICE EACH - FINISHED TO METRIC SIZE						
mm	INCH			FLUTE	OVERALL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
4.5	.1772	.1704	4	1 1/8	4 1/2	3480045	\$97.75	4.494 - 4.696	\$137.95	\$111.30	\$102.40	\$98.05	\$93.50	\$89.85	\$84.70
5.0	.1969	.1805	4	1 1/8	4 1/2	3480050	97.75	4.697 - 5.182	137.95	111.30	102.40	98.05	93.50	89.85	84.70
5.5	.2165	.2075	4	1 1/4	5	3480055	97.75	5.183 - 5.613	137.95	111.30	102.40	98.05	93.50	89.85	84.70
6.0	.2362	.2265	4	1 1/2	6	3480060	97.75	5.614 - 6.045	137.95	111.30	102.40	98.05	93.50	89.85	84.70
-	.2480	.2405	4	1 1/2	6	3480063	-	6.046 - 6.426	137.95	111.30	102.40	98.05	93.50	89.85	84.70
6.5	.2559	.2485	4	1 1/2	6	3480065	99.50	6.427 - 7.214	139.80	113.00	104.10	99.65	95.35	91.50	86.45
7.0	.2756	.2485	4	1 1/2	6	3480070	99.50	-	-	-	-	-	-	-	-
7.5	.2953	.2792	4	1 1/2	6	3480075	99.50	7.215 - 8.001	139.80	113.00	104.10	99.65	95.35	91.50	86.45
8.0	.3150	.2792	4	1 1/2	6	3480080	99.50	-	-	-	-	-	-	-	-
8.5	.3346	.2792	4	1 1/2	6	3480085	102.50	8.002 - 8.814	142.90	115.95	107.00	102.70	98.20	94.50	89.30
9.0	.3543	.3105	4	1 3/4	7	3480090	102.50	8.815 - 9.601	142.90	115.95	107.00	102.70	98.20	94.50	89.30
9.5	.3740	.3105	4	1 3/4	7	3480095	102.50	-	-	-	-	-	-	-	-
10.0	.3937	.3105	4	1 3/4	7	3480100	106.70	9.602 - 10.389	146.85	120.20	111.15	106.85	102.40	98.65	93.50
10.5	.4134	.3730	6	1 3/4	7	3480105	120.80	10.390 - 11.201	161.05	134.35	125.40	121.05	116.60	112.75	107.60
11.0	.4331	.3730	6	1 3/4	7	3480110	120.80	-	-	-	-	-	-	-	-
11.5	.4528	.3730	6	1 3/4	7	3480115	121.80	11.202 - 11.989	162.10	135.20	126.40	121.95	117.50	113.85	108.60
12.0	.4724	.4355	6	2	8	3480120	130.45	11.990 - 12.776	173.60	144.95	135.35	130.60	125.85	121.85	116.50
12.5	.4921	.4355	6	2	8	3480125	130.45	-	-	-	-	-	-	-	-
13.0	.5118	.4355	6	2	8	3480130	133.50	12.777 - 13.564	176.85	148.10	138.50	133.75	129.00	125.00	119.55
13.5	.5315	.4355	6	2	8	3480135	133.50	-	-	-	-	-	-	-	-
14.0	.5512	.4355	6	2	8	3480140	133.50	13.565 - 14.376	176.85	148.10	138.50	133.75	129.00	125.00	119.55
14.5	.5709	.4355	6	2	8	3480145	137.90	14.377 - 15.164	181.05	152.45	142.95	138.30	133.35	129.30	123.85
15.0	.5906	.4355	6	2	8	3480150	137.90	-	-	-	-	-	-	-	-
15.5	.6102	.5615	6	2 1/4	9	3480155	137.90	15.165 - 15.951	181.05	152.45	142.95	138.30	133.35	129.30	123.85
16.0	.6299	.5615	6	2 1/4	9	3480160	140.10	15.952 - 16.739	183.35	154.75	145.10	140.40	135.60	131.60	126.00
16.5	.6496	.5615	6	2 1/4	9	3480165	140.10	-	-	-	-	-	-	-	-
17.0	.6693	.5615	6	2 1/4	9	3480170	140.10	16.740 - 17.551	183.35	154.75	145.10	140.40	135.60	131.60	126.00
17.5	.6890	.5615	6	2 1/4	9	3480175	140.10	-	-	-	-	-	-	-	-
18.0	.7087	.5615	6	2 1/4	9	3480180	145.80	17.552 - 18.339	188.70	160.10	150.70	145.95	141.20	137.05	131.60
18.5	.7283	.6245	6	2 1/2	9 1/2	3480185	145.80	18.340 - 19.126	188.70	160.10	150.70	145.95	141.20	137.05	131.60
19.0	.7480	.6245	6	2 1/2	9 1/2	3480190	145.80	-	-	-	-	-	-	-	-
19.5	.7677	.6245	6	2 1/2	9 1/2	3480195	150.00	19.127 - 19.914	193.25	164.55	154.90	150.25	145.35	141.50	136.00
20.0	.7874	.6245	6	2 1/2	9 1/2	3480200	150.00	19.915 - 20.726	193.25	164.55	154.90	150.25	145.35	141.50	136.00
20.5	.8071	.6245	6	2 1/2	9 1/2	3480205	150.00	-	-	-	-	-	-	-	-
21.0	.8268	.6245	6	2 1/2	9 1/2	3480210	155.20	20.727 - 21.514	198.50	169.80	160.10	155.45	150.75	146.70	141.35
21.5	.8465	.6245	6	2 1/2	9 1/2	3480215	155.20	-	-	-	-	-	-	-	-
22.0	.8661	.7495	6	2 5/8	10	3480220	155.20	21.515 - 22.301	198.50	169.80	160.10	155.45	150.75	146.70	141.35
22.5	.8858	.7495	6	2 5/8	10	3480225	184.35	22.302 - 23.089	229.10	199.45	189.55	184.55	179.60	175.55	169.70
23.0	.9055	.7495	6	2 5/8	10	3480230	184.35	-	-	-	-	-	-	-	-
23.5	.9252	.7495	8	2 5/8	10	3480235	184.35	23.090 - 23.901	229.10	199.45	189.55	184.55	179.60	175.55	169.70
24.0	.9449	.7495	8	2 5/8	10	3480240	192.25	23.902 - 24.689	237.10	207.40	197.45	192.55	187.50	183.40	177.60
24.5	.9646	.7495	8	2 5/8	10	3480245	192.25	-	-	-	-	-	-	-	-
25.0	.9843	.8745	8	2 3/4	10 1/2	3480250	192.25	24.690 - 25.476	237.10	207.40	197.45	192.55	187.50	183.40	177.60
25.5	1.0039	.8745	8	2 3/4	10 1/2	3480255	197.35	25.477 - 27.076	240.15	211.85	202.15	197.55	192.75	188.70	183.35
26.0	1.0236	.8745	8	2 3/4	10 1/2	3480260	197.35	-	-	-	-	-	-	-	-
27.0	1.0630	.8745	8	2 3/4	10 1/2	3480270	197.35	-	-	-	-	-	-	-	-
28.0	1.1024	.8745	8	2 7/8	11	3480280	212.10	27.077 - 28.651	254.95	226.65	217.00	212.25	207.65	203.60	198.05
29.0	1.1417	.9995	8	2 7/8	11	3480290	230.55	28.652 - 30.239	273.40	245.05	235.45	230.80	226.05	222.05	216.60
30.0	1.1811	.9995	8	2 7/8	11	3480300	230.55	-	-	-	-	-	-	-	-
31.0	1.2205	.9995	8	3	11 1/2	3480310	254.70	30.240 - 31.826	297.80	269.20	259.70	254.95	250.25	246.30	240.90
32.0	1.2598	.9995	8	3	11 1/2	3480320	254.70	31.827 - 33.414	297.80	269.20	259.70	254.95	250.25	246.30	240.90
33.0	1.2992	.9995	8	3	11 1/2	3480330	254.70	-	-	-	-	-	-	-	-
34.0	1.3386	.9995	8	3 1/4	12	3480340	258.30	33.415 - 35.001	301.15	272.70	263.20	258.55	253.80	249.75	244.30
35.0	1.3780	.9995	8	3 1/4	12	3480350	258.30	-	-	-	-	-	-	-	-
36.0	1.4173	.9995	8	3 1/4	12	3480360	283.45	35.002 - 36.589	326.20	297.85	288.15	283.60	278.80	274.85	269.35
37.0	1.4567	1.2495	8	3 1/2	12 1/2	3480370	336.50	36.590 - 38.176	379.35	350.90	341.30	336.65	331.90	328.00	322.55
38.0	1.4961	1.2495	8	3 1/2	12 1/2	3480380	336.50	-	-	-	-	-	-	-	-

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	\$80.00	.1770 - .2040	\$133.50	\$106.75	\$97.75	\$93.50	\$89.00	\$85.25
.2031	13/64	.1805	4	1 1/8	4 1/2	34802031	80.00	-	-	-	-	-	-	-
.2188	7/32	.2075	4	1 1/4	5	348007	80.00	.2041 - .2210	133.50	106.75	97.75	93.50	89.00	85.25
.2344	15/64	.2265	4	1 1/2	6	34802344	80.00	.2211 - .2380	133.50	106.75	97.75	93.50	89.00	85.25
.2500	1/4	.2405	4	1 1/2	6	348008	80.00	.2381 - .2530	133.50	106.75	97.75	93.50	89.00	85.25
.2656	17/64	.2485	4	1 1/2	6	34802656	81.80	-	-	-	-	-	-	-
.2812	9/32	.2485	4	1 1/2	6	348009	81.80	.2531 - .2840	135.20	108.55	99.50	95.35	90.70	87.15
.2969	19/64	.2792	4	1 1/2	6	34802969	81.80	-	-	-	-	-	-	-
.3125	5/16	.2792	4	1 1/2	6	348010	81.80	.2841 - .3150	135.20	108.55	99.50	95.35	90.70	87.15
.3281	21/64	.2792	4	1 1/2	6	34803281	84.75	-	-	-	-	-	-	-
.3438	11/32	.2792	4	1 1/2	6	348011	84.75	.3151 - .3470	138.35	111.35	102.50	98.20	93.75	90.05
.3594	23/64	.3105	4	1 3/4	7	34803594	84.75	-	-	-	-	-	-	-
.3750	3/8	.3105	4	1 3/4	7	348012	84.75	.3471 - .3780	138.35	111.35	102.50	98.20	93.75	90.05
.3906	25/64	.3105	4	1 3/4	7	34803906	89.00	-	-	-	-	-	-	-
.4062	13/32	.3105	4	1 3/4	7	348013	89.00	.3781 - .4090	142.35	115.65	106.70	102.40	97.75	94.15
.4219	27/64	.3730	6	1 3/4	7	34804219	103.00	-	-	-	-	-	-	-
.4375	7/16	.3730	6	1 3/4	7	348014	103.00	.4091 - .4410	156.50	129.70	120.80	116.60	112.00	108.40
.4531	29/64	.3730	6	1 3/4	7	34804531	103.95	-	-	-	-	-	-	-
.4688	15/32	.3730	6	1 3/4	7	348015	103.95	.4411 - .4720	157.60	130.60	121.80	117.50	112.85	109.30
.4844	31/64	.4355	6	2	8	34804844	111.35	-	-	-	-	-	-	-
.5000	1/2	.4355	6	2	8	348016	111.35	.4721 - .5030	168.80	140.05	130.45	125.85	120.95	117.10
.5156	33/64	.4355	6	2	8	34805156	114.60	-	-	-	-	-	-	-
.5312	17/32	.4355	6	2	8	348017	114.60	.5031 - .5340	171.95	143.20	133.50	129.00	124.10	120.20
.5469	35/64	.4355	6	2	8	34805469	114.60	-	-	-	-	-	-	-
.5625	9/16	.4355	6	2	8	348018	114.60	.5341 - .5660	171.95	143.20	133.50	129.00	124.10	120.20
.5781	37/64	.4355	6	2	8	34805781	118.95	-	-	-	-	-	-	-
.5938	19/32	.4355	6	2	8	348019	118.95	.5661 - .5970	176.30	147.65	137.90	133.35	128.45	124.65
.6094	39/64	.5615	6	2 1/4	9	34806094	118.95	-	-	-	-	-	-	-
.6250	5/8	.5615	6	2 1/4	9	348020	118.95	.5971 - .6280	176.30	147.65	137.90	133.35	128.45	124.65
.6406	41/64	.5615	6	2 1/4	9	34806406	121.20	-	-	-	-	-	-	-
.6562	21/32	.5615	6	2 1/4	9	348021	121.20	.6281 - .6590	178.60	149.75	140.10	135.60	130.60	126.85
.6719	43/64	.5615	6	2 1/4	9	34806719	121.20	-	-	-	-	-	-	-

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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	\$121.20	.6591 - .6910	\$178.60	\$149.75	\$140.10	\$135.60	130.60	\$126.85
.7031	45/64	.5615	6	2 1/4	9	34807031	126.70	-	-	-	-	-	-	-
.7188	23/32	.5615	6	2 1/4	9	348023	126.70	.6911 - .7220	184.05	155.20	145.80	141.20	136.20	132.30
.7344	47/64	.6245	6	2 1/2	9 1/2	34807344	126.70	-	-	-	-	-	-	-
.7500	3/4	.6245	6	2 1/2	9 1/2	348024	126.70	.7221 - .7530	184.05	155.20	145.80	141.20	136.20	132.30
.7656	49/64	.6245	6	2 1/2	9 1/2	34807656	131.15	-	-	-	-	-	-	-
.7812	25/32	.6245	6	2 1/2	9 1/2	348025	131.15	.7531 - .7840	188.35	159.60	150.00	145.35	140.50	136.60
.7969	51/64	.6245	6	2 1/2	9 1/2	34807969	131.15	-	-	-	-	-	-	-
.8125	13/16	.6245	6	2 1/2	9 1/2	348026	131.15	.7841 - .8160	188.35	159.60	150.00	145.35	140.50	136.60
.8281	53/64	.6245	6	2 1/2	9 1/2	34808281	136.35	-	-	-	-	-	-	-
.8438	27/32	.6245	6	2 1/2	9 1/2	348027	136.35	.8161 - .8470	193.55	164.80	155.20	150.75	145.85	141.90
.8594	55/64	.7495	6	2 5/8	10	34808594	136.35	-	-	-	-	-	-	-
.8750	7/8	.7495	6	2 5/8	10	348028	141.55	.8471 - .8780	200.80	171.10	161.10	156.35	151.25	147.25
.8906	57/64	.7495	6	2 5/8	10	34808906	164.70	-	-	-	-	-	-	-
.9062	29/32	.7495	6	2 5/8	10	348029	164.70	.8781 - .9090	224.20	194.45	184.35	179.60	174.55	170.45
.9219	59/64	.7495	8	2 5/8	10	34809219	164.70	-	-	-	-	-	-	-
.9375	15/16	.7495	8	2 5/8	10	348030	164.70	.9091 - .9410	224.20	194.45	184.35	179.60	174.55	170.45
.9531	61/64	.7495	8	2 5/8	10	34809531	172.60	-	-	-	-	-	-	-
.9688	31/32	.7495	8	2 5/8	10	348031	172.60	.9411 - .9720	232.10	202.35	192.25	187.50	182.45	178.35
.9844	63/64	.8745	8	2 3/4	10 1/2	34809844	172.60	-	-	-	-	-	-	-
1.0000	1	.8745	8	2 3/4	10 1/2	348032	172.60	.9721 - 1.0030	232.10	202.35	192.25	187.50	182.45	178.35
1.0625	1 1/16	.8745	8	2 3/4	10 1/2	348034	178.45	1.0031 - 1.0660	235.45	206.80	197.35	192.75	187.85	184.10
1.1250	1 1/8	.8745	8	2 7/8	11	348036	193.30	1.0661 - 1.1280	250.25	221.65	212.10	207.65	202.75	198.85
1.1875	1 3/16	.9995	8	2 7/8	11	348038	211.70	1.1281 - 1.1905	268.75	240.05	230.55	226.05	221.15	217.30
1.2500	1 1/4	.9995	8	3	11 1/2	348040	235.95	1.1906 - 1.2530	292.90	264.30	254.70	250.25	245.35	241.45
1.3125	1 5/16	.9995	8	3	11 1/2	348042	235.95	1.2531 - 1.3155	292.90	264.30	254.70	250.25	245.35	241.45
1.3750	1 3/8	.9995	8	3 1/4	12	348044	239.40	1.3156 - 1.3780	296.35	267.80	258.30	253.80	248.75	245.05
1.4375	1 7/16	.9995	8	3 1/4	12	348046	264.50	1.3781 - 1.4405	321.45	292.90	283.45	278.80	273.85	270.20
1.5000	1 1/2	1.2495	8	3 1/2	12 1/2	348048	317.55	1.4406 - 1.5030	374.60	346.00	336.50	331.90	327.15	323.15

*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	\$100.05
.1885	.1805	4	1 1/8	4 1/2	348819	100.05
.2490	.2405	4	1 1/2	6	348824	100.05
.2510	.2405	4	1 1/2	6	348825	100.05
.3115	.2792	4	1 1/2	6	348831	101.85
.3135	.2792	4	1 1/2	6	348832	101.85
.3740	.3105	4	1 3/4	7	348837	104.80
.3760	.3105	4	1 3/4	7	348838	104.80
.4365	.3730	6	1 3/4	7	348843	123.10
.4385	.3730	6	1 3/4	7	348844	123.10
.4990	.4355	6	2	8	348849	132.90
.5010	.4355	6	2	8	348850	132.90
CASED SET OF ABOVE 12 REAMERS					348800	1259.35

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	\$100.05
.1870	.1805	4	1 1/8	4 1/2	348618	100.05
.2480	.2405	4	1 1/2	6	348623	100.05
.2495	.2405	4	1 1/2	6	348624	100.05
.3105	.2792	4	1 1/2	6	348630	101.85
.3120	.2792	4	1 1/2	6	348631	101.85
.3730	.3105	4	1 3/4	7	348636	104.80
.3745	.3105	4	1 3/4	7	348637	104.80
.4355	.3730	6	1 3/4	7	348642	123.10
.4370	.3730	6	1 3/4	7	348643	123.10
.4980	.4355	6	2	8	348648	132.90
.4995	.4355	6	2	8	348649	132.90
CASED SET OF ABOVE 12 REAMERS					348600	1259.35

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	\$76.80	.2381 - .2530	\$130.30	\$103.55	\$94.50	\$90.20	\$85.70	\$81.95
.2812	9/32	1	4	1 1/2	6	345209	77.80	.2531 - .2840	131.40	104.65	95.60	91.30	86.70	83.10
.3125	5/16	1	4	1 1/2	6	345210	77.80	.2841 - .3150	131.40	104.65	95.60	91.30	86.70	83.10
.3438	11/32	1	4	1 1/2	6	345211	79.55	.3151 - .3470	133.15	106.40	97.40	93.05	88.40	84.85
.3750	3/8	1	4	1 3/4	7	345212	80.50	.3471 - .3780	134.05	107.25	98.20	93.95	89.30	85.85
.4062	13/32	1	4	1 3/4	7	345213	84.75	.3781 - .4090	138.35	111.35	102.50	98.20	93.75	90.05
.4375	7/16	1	4	1 3/4	7	345214	90.30	.4091 - .4410	143.80	117.05	108.10	103.80	99.25	95.60
.4688	15/32	1	4	1 3/4	7	345215	92.20	.4411 - .4720	145.80	118.80	110.00	105.60	101.10	97.50
.5000	1/2	1	6	2	8	345216	99.40	.4721 - .5030	156.60	127.95	118.35	113.85	108.85	105.10
.5312	17/32	1	6	2	8	345217	108.85	.5031 - .5340	166.25	137.50	127.85	123.25	118.35	114.45
.5625	9/16	1	6	2	8	345218	108.85	.5341 - .5660	166.25	137.50	127.85	123.25	118.35	114.45
.5938	19/32	1	6	2	8	345219	113.90	.5661 - .5970	171.15	142.50	132.90	128.40	123.40	119.55
.6250	5/8	2	6	2	9	345220	113.90	.5971 - .6280	171.15	142.50	132.90	128.40	123.40	119.55
.6562	21/32	2	6	2	9	345221	115.95	.6281 - .6590	173.45	144.65	134.90	130.45	125.50	121.70
.6875	11/16	2	6	2	9	345222	115.95	.6591 - .6910	173.45	144.65	134.90	130.45	125.50	121.70
.7188	23/32	2	6	2	9	345223	117.65	.6911 - .7220	175.05	146.25	136.60	132.05	127.15	123.25
.7500	3/4	2	6	2	9 1/2	345224	121.40	.7221 - .7530	178.75	150.00	140.40	135.80	130.75	127.10
.7812	25/32	2	6	2	9 1/2	345225	122.35	.7531 - .7840	179.75	151.00	141.40	136.65	131.85	127.95
.8125	13/16	2	6	2	9 1/2	345226	125.25	.7841 - .8160	182.45	153.60	144.20	139.60	134.65	130.70
.8438	27/32	2	6	2	9 1/2	345227	130.60	.8161 - .8470	188.00	159.30	149.60	145.10	140.10	136.35
.8750	7/8	2	6	2 1/4	10	345228	135.65	.8471 - .8780	195.15	165.35	155.20	150.70	145.35	141.55
.9062	29/32	2	6	2 1/4	10	345229	152.75	.8781 - .9090	212.15	182.45	172.55	167.70	162.50	158.60
.9375	15/16	3	8	2 1/4	10	345230	158.90	.9091 - .9410	218.20	188.50	178.60	173.75	168.65	164.70
.9688	31/32	3	8	2 1/4	10	345231	165.40	.9411 - .9720	224.90	195.15	185.10	180.35	175.20	171.30
1.0000	1	3	8	2 1/4	10 1/2	345232	165.40	.9721 - 1.0030	224.90	195.15	185.10	180.35	175.20	171.30
1.0625	1 1/16	3	8	2 1/4	10 1/2	345234	226.75	1.0031 - 1.0660	283.70	255.00	245.50	241.05	236.10	232.25
1.1250	1 1/8	3	8	2 1/4	11	345236	244.15	1.0661 - 1.1280	301.15	272.55	263.15	258.55	253.55	249.75
1.1875	1 3/16	3	8	2 1/4	11	345238	262.35	1.1281 - 1.1905	319.30	290.80	281.25	276.65	271.90	267.90
1.2500	1 1/4	4	8	2 1/2	11 1/2	345240	278.80	1.1906 - 1.2530	335.75	307.20	297.80	293.05	288.15	284.35
1.3125	1 5/16	4	8	2 1/2	11 1/2	345242	314.80	1.2531 - 1.3155	371.75	343.30	333.60	329.20	324.25	320.40
1.3750	1 3/8	4	8	2 1/2	12	345244	359.70	1.3156 - 1.3780	416.65	388.15	378.50	374.00	369.05	365.25
1.4375	1 7/16	4	8	2 1/2	12	345246	375.45	1.3781 - 1.4405	432.45	403.85	394.30	389.90	384.85	381.05
1.5000	1 1/2	4	8	2 1/2	12 1/2	345248	391.05	1.4406 - 1.5030	448.10	419.65	410.10	405.50	400.55	396.65

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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	\$94.50	6.000 - 6.426	\$134.75	\$108.10	\$99.20	\$94.75	\$90.20	\$86.55	\$81.40
6.5	.2559	1	4	1 ½	6	3452065	95.60	6.427 - 7.214	135.80	109.25	100.25	95.90	91.30	87.70	82.50
7.0	.2756	1	4	1 ½	6	3452070	95.60	-	-	-	-	-	-	-	-
7.5	.2953	1	4	1 ½	6	3452075	95.60	7.215 - 8.001	135.80	109.25	100.25	95.90	91.30	87.70	82.50
8.0	.3150	1	4	1 ½	6	3452080	95.60	-	-	-	-	-	-	-	-
8.5	.3346	1	4	1 ½	6	3452085	97.40	8.002 - 8.814	137.65	110.90	102.00	97.60	93.05	89.30	84.25
9.0	.3543	1	4	1 ¾	7	3452090	98.20	8.815 - 9.601	138.50	111.90	102.80	98.35	93.95	90.20	85.00
9.5	.3740	1	4	1 ¾	7	3452095	98.20	-	-	-	-	-	-	-	-
10.0	.3937	1	4	1 ¾	7	3452100	102.50	9.602 - 10.389	142.90	115.95	107.00	102.70	98.20	94.50	89.30
10.5	.4134	1	4	1 ¾	7	3452105	108.10	10.390 - 11.201	148.25	121.65	112.70	108.40	103.80	100.05	94.95
11.0	.4331	1	4	1 ¾	7	3452110	108.10	-	-	-	-	-	-	-	-
11.5	.4528	1	4	1 ¾	7	3452115	110.00	11.202 - 11.989	150.25	123.40	114.50	110.15	105.60	102.00	96.65
12.0	.4724	1	6	2	8	3452120	118.35	11.990 - 12.776	161.50	132.90	123.25	118.60	113.85	109.75	104.30
12.5	.4921	1	6	2	8	3452125	118.35	-	-	-	-	-	-	-	-
13.0	.5118	1	6	2	8	3452130	127.85	12.777 - 13.564	171.00	142.35	132.85	128.25	123.25	119.35	113.85
13.5	.5315	1	6	2	8	3452135	127.85	-	-	-	-	-	-	-	-
14.0	.5512	1	6	2	8	3452140	127.85	13.565 - 14.376	171.00	142.35	132.85	128.25	123.25	119.35	113.85
14.5	.5709	1	6	2	8	3452145	132.90	14.377 - 15.164	176.00	147.55	137.80	133.15	128.40	124.25	118.80
15.0	.5906	1	6	2	8	3452150	132.90	-	-	-	-	-	-	-	-
15.5	.6102	2	6	2	9	3452155	132.90	15.165 - 15.951	176.00	147.55	137.80	133.15	128.40	124.25	118.80
16.0	.6299	2	6	2	9	3452160	134.90	15.952 - 16.739	178.15	149.45	139.95	135.20	130.45	126.55	120.95
16.5	.6496	2	6	2	9	3452165	134.90	-	-	-	-	-	-	-	-
17.0	.6693	2	6	2	9	3452170	134.90	16.740 - 17.551	178.15	149.45	139.95	135.20	130.45	126.55	120.95
17.5	.6890	2	6	2	9	3452175	134.90	-	-	-	-	-	-	-	-
18.0	.7087	2	6	2	9	3452180	136.60	17.552 - 18.339	179.80	151.15	141.65	136.90	132.05	128.25	122.50
18.5	.7283	2	6	2	9 ½	3452185	140.40	18.340 - 19.126	183.60	154.90	145.25	140.60	135.80	131.85	126.40
19.0	.7480	2	6	2	9 ½	3452190	140.40	-	-	-	-	-	-	-	-
19.5	.7677	2	6	2	9 ½	3452195	141.40	19.127 - 19.914	184.40	156.00	146.25	141.65	136.65	132.85	127.25
20.0	.7874	2	6	2	9 ½	3452200	144.20	19.915 - 20.726	187.35	158.60	149.10	144.40	139.60	135.60	130.15
20.5	.8071	2	6	2	9 ½	3452205	144.20	-	-	-	-	-	-	-	-
21.0	.8268	2	6	2	9 ½	3452210	149.60	20.727 - 21.514	192.75	164.20	154.60	149.85	145.10	141.20	135.60
21.5	.8465	2	6	2	9 ½	3452215	149.60	-	-	-	-	-	-	-	-
22.0	.8661	2	6	2 ¼	10	3452220	149.60	21.515 - 22.301	192.75	164.20	154.60	149.85	145.10	141.20	135.60
22.5	.8858	2	6	2 ¼	10	3452225	172.55	22.302 - 23.089	217.25	187.50	177.50	172.70	167.70	163.55	158.00
23.0	.9055	2	6	2 ¼	10	3452230	172.55	-	-	-	-	-	-	-	-
23.5	.9252	3	8	2 ¼	10	3452235	178.60	23.090 - 23.901	223.30	193.55	183.75	178.75	173.75	169.65	163.95
24.0	.9449	3	8	2 ¼	10	3452240	185.10	23.902 - 24.689	229.85	200.15	190.25	185.40	180.35	176.30	170.45
24.5	.9646	3	8	2 ¼	10	3452245	185.10	-	-	-	-	-	-	-	-
25.0	.9843	3	8	2 ¼	10 ½	3452250	185.10	24.690 - 25.476	229.85	200.15	190.25	185.40	180.35	176.30	170.45
25.5	1.0039	3	8	2 ¼	10 ½	3452255	245.50	25.477 - 27.076	288.50	260.05	250.40	245.80	241.05	237.10	231.65
26.0	1.0236	3	8	2 ¼	10 ½	3452260	245.50	-	-	-	-	-	-	-	-
27.0	1.0630	3	8	2 ¼	10 ½	3452270	245.50	-	-	-	-	-	-	-	-
28.0	1.1024	3	8	2 ¼	11	3452280	263.15	27.077 - 28.651	306.00	277.55	267.90	263.30	258.55	254.55	249.10
29.0	1.1417	3	8	2 ¼	11	3452290	281.25	28.652 - 30.239	324.15	295.70	286.05	281.45	276.65	272.70	267.30
30.0	1.1811	3	8	2 ¼	11	3452300	281.25	-	-	-	-	-	-	-	-
31.0	1.2205	4	8	2 ½	11 ½	3452310	297.80	30.240 - 31.826	340.55	312.10	302.55	297.95	293.05	289.10	283.70
32.0	1.2598	4	8	2 ½	11 ½	3452320	333.60	31.827 - 33.414	376.65	348.05	338.65	333.90	329.20	325.05	319.65
33.0	1.2992	4	8	2 ½	11 ½	3452330	333.60	-	-	-	-	-	-	-	-
34.0	1.3386	4	8	2 ½	12	3452340	378.50	33.415 - 35.001	421.40	393.05	383.50	378.90	374.00	370.05	364.55
35.0	1.3780	4	8	2 ½	12	3452350	378.50	-	-	-	-	-	-	-	-
36.0	1.4173	4	8	2 ½	12	3452360	394.30	35.002 - 36.589	437.15	408.70	399.25	394.50	389.90	385.80	380.20
37.0	1.4567	4	8	2 ½	12 ½	3452370	410.10	36.590 - 38.176	453.00	424.40	414.90	410.40	405.50	401.55	396.15
38.0	1.4961	4	8	2 ½	12 ½	3452380	410.10	-	-	-	-	-	-	-	-

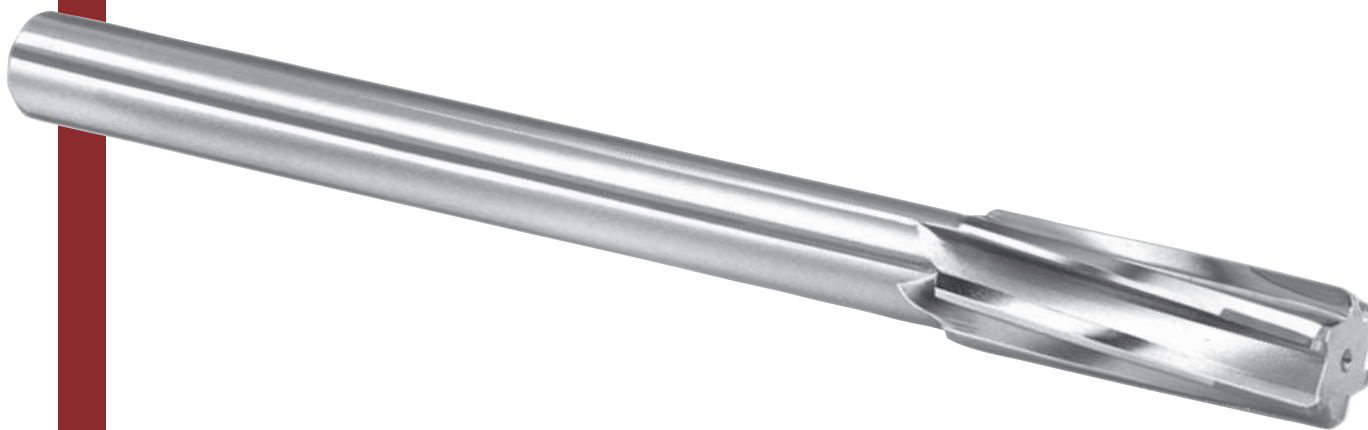
CARBIDE TIPPED RIGHT SPIRAL CHUCKING REAMERS

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	\$78.55	.1770 - .2040	\$129.55	\$103.95	\$95.45	\$91.30	\$86.90	\$83.55
.2188	7/32	13/64	4	1 1/4	1/2	5	341007	78.55	.2041 - .2210	129.55	103.95	95.45	91.30	86.90	83.55
.2344	15/64	7/32	4	1 1/2	1/2	6	34102344	78.55	.2211 - .2380	129.55	103.95	95.45	91.30	86.90	83.55
.2500	1/4	15/64	4	1 1/2	1/2	6	341008	78.55	.2381 - .2530	129.55	103.95	95.45	91.30	86.90	83.55
.2812	9/32	15/64	4	1 1/2	1/2	6	341009	78.80	.2531 - .2840	129.70	104.15	95.60	91.50	87.15	83.70
.3125	5/16	9/32	4	1 1/2	1/2	6	341010	78.80	.2841 - .3150	129.70	104.15	95.60	91.50	87.15	83.70
.3438	11/32	9/32	4	1 1/2	5/8	6	341011	86.70	.3151 - .3470	137.65	112.05	103.55	99.50	95.10	91.75
.3750	3/8	5/16	4	1 3/4	5/8	7	341012	87.55	.3471 - .3780	138.45	112.90	104.30	100.40	96.05	92.50
.4062	13/32	5/16	4	1 3/4	5/8	7	341013	91.45	.3781 - .4090	142.40	116.90	108.40	104.25	99.80	96.45
.4375	7/16	3/8	4	1 3/4	5/8	7	341014	95.10	.4091 - .4410	146.00	120.50	112.00	107.90	103.55	100.10
.4688	15/32	3/8	4	1 3/4	5/8	7	341015	100.95	.4411 - .4720	151.90	126.40	117.90	113.75	109.45	105.85
.5000	1/2	7/16	6	2	5/8	8	341016	104.80	.4721 - .5030	157.00	130.70	122.05	117.90	113.45	109.85
.5312	17/32	7/16	6	2	5/8	8	341017	107.90	.5031 - .5340	160.30	134.05	125.30	121.10	116.65	113.05
.5625	9/16	7/16	6	2	5/8	8	341018	107.90	.5341 - .5660	160.30	134.05	125.30	121.10	116.65	113.05
.5938	19/32	7/16	6	2	5/8	8	341019	111.15	.5661 - .5970	163.40	137.30	128.45	124.25	119.80	116.20
.6250	5/8	9/16	6	2 1/4	5/8	9	341020	111.15	.5971 - .6280	163.40	137.30	128.45	124.25	119.80	116.20
.6562	21/32	9/16	6	2 1/4	5/8	9	341021	114.30	.6281 - .6590	166.70	140.50	131.70	127.45	122.95	119.55
.6875	11/16	9/16	6	2 1/4	5/8	9	341022	121.80	.6591 - .6910	174.00	147.80	139.05	134.85	130.40	126.95
.7188	23/32	9/16	6	2 1/4	5/8	9	341023	123.40	.6911 - .7220	175.70	149.45	140.75	136.60	132.05	128.55
.7500	3/4	5/8	6	2 1/2	3/4	9 1/2	341024	125.40	.7221 - .7530	177.65	151.45	142.70	138.50	134.05	130.45
.7812	25/32	5/8	6	2 1/2	3/4	9 1/2	341025	128.55	.7531 - .7840	180.95	154.75	145.95	141.75	137.30	133.70
.8125	13/16	5/8	6	2 1/2	3/4	9 1/2	341026	128.55	.7841 - .8160	180.95	154.75	145.95	141.75	137.30	133.70
.8438	27/32	5/8	6	2 1/2	3/4	9 1/2	341027	135.60	.8161 - .8470	188.00	161.75	153.00	148.85	144.25	140.75
.8750	7/8	3/4	6	2 5/8	3/4	10	341028	140.75	.8471 - .8780	195.00	167.85	158.60	154.45	149.70	146.00
.9062	29/32	3/4	6	2 5/8	3/4	10	341029	163.95	.8781 - .9090	218.20	191.10	181.95	177.60	172.90	169.30
.9375	15/16	3/4	8	2 5/8	3/4	10	341030	163.95	.9091 - .9410	218.20	191.10	181.95	177.60	172.90	169.30
.9688	31/32	3/4	8	2 5/8	3/4	10	341031	171.95	.9411 - .9720	226.25	199.00	190.00	185.55	180.90	177.30
1.0000	1	7/8	8	2 3/4	3/4	10 1/2	341032	171.95	.9721 - 1.0030	226.25	199.00	190.00	185.55	180.90	177.30
1.0625	1 1/16	7/8	8	2 3/4	3/4	10 1/2	341034	184.40	1.0031 - 1.0660	238.75	211.55	202.50	198.05	193.40	189.80
1.1250	1 1/8	7/8	8	2 7/8	7/8	11	341036	190.15	1.0661 - 1.1280	244.35	217.30	208.10	203.75	199.05	195.55
1.1875	1 3/16	1	8	2 7/8	7/8	11	341038	199.85	1.1281 - 1.1905	254.10	226.90	217.75	213.40	208.80	205.10
1.2500	1 1/4	1	8	3	7/8	11 1/2	341040	211.50	1.1906 - 1.2530	265.75	238.45	229.50	225.10	220.45	216.85
1.3125	1 5/16	1	8	3	7/8	11 1/2	341042	233.95	1.2531 - 1.3155	288.35	261.15	251.85	247.65	243.00	239.30
1.3750	1 3/8	1	8	3 1/4	7/8	12	341044	256.40	1.3156 - 1.3780	310.65	283.55	274.40	270.10	265.35	261.75
1.4375	1 7/16	1 1/4	8	3 1/4	7/8	12	341046	271.55	1.3781 - 1.4405	325.90	298.70	289.60	285.35	280.60	276.95
1.5000	1 1/2	1 1/4	8	3 1/2	7/8	12 1/2	341048	286.90	1.4406 - 1.5030	341.15	313.95	305.00	300.45	295.95	292.25

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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	\$78.55	.1770 - .2040	\$129.55	\$103.95	\$95.45	\$91.30	\$86.90	\$83.55
.2188	7/32	13/64	4	1 1/4	1/2	5	342007	78.55	.2041 - .2210	129.55	103.95	95.45	91.30	86.90	83.55
.2344	15/64	7/32	4	1 1/2	1/2	6	34202344	78.55	.2211 - .2380	129.55	103.95	95.45	91.30	86.90	83.55
.2500	1/4	15/64	4	1 1/2	1/2	6	342008	78.55	.2381 - .2530	129.55	103.95	95.45	91.30	86.90	83.55
.2812	9/32	15/64	4	1 1/2	1/2	6	342009	78.80	.2531 - .2840	129.70	104.15	95.60	91.50	87.15	83.70
.3125	5/16	9/32	4	1 1/2	1/2	6	342010	78.80	.2841 - .3150	129.70	104.15	95.60	91.50	87.15	83.70
.3438	11/32	9/32	4	1 1/2	5/8	6	342011	86.70	.3151 - .3470	137.65	112.05	103.55	99.50	95.10	91.75
.3750	3/8	5/16	4	1 3/4	5/8	7	342012	87.55	.3471 - .3780	138.45	112.90	104.30	100.40	96.05	92.50
.4062	13/32	5/16	4	1 3/4	5/8	7	342013	91.45	.3781 - .4090	142.40	116.90	108.40	104.25	99.80	96.45
.4375	7/16	3/8	4	1 3/4	5/8	7	342014	95.10	.4091 - .4410	146.00	120.50	112.00	107.90	103.55	100.10
.4688	15/32	3/8	4	1 3/4	5/8	7	342015	100.95	.4411 - .4720	151.90	126.40	117.90	113.75	109.45	105.85
.5000	1/2	7/16	6	2	5/8	8	342016	104.80	.4721 - .5030	157.00	130.70	122.05	117.90	113.45	109.85
.5312	17/32	7/16	6	2	5/8	8	342017	107.90	.5031 - .5340	160.30	134.05	125.30	121.10	116.65	113.05
.5625	9/16	7/16	6	2	5/8	8	342018	107.90	.5341 - .5660	160.30	134.05	125.30	121.10	116.65	113.05
.5938	19/32	7/16	6	2	5/8	8	342019	111.15	.5661 - .5970	163.40	137.30	128.45	124.25	119.80	116.20
.6250	5/8	9/16	6	2 1/4	5/8	9	342020	111.15	.5971 - .6280	163.40	137.30	128.45	124.25	119.80	116.20
.6562	21/32	9/16	6	2 1/4	5/8	9	342021	114.30	.6281 - .6590	166.70	140.50	131.70	127.45	122.95	119.55
.6875	11/16	9/16	6	2 1/4	5/8	9	342022	121.80	.6591 - .6910	174.00	147.80	139.05	134.85	130.40	126.95
.7188	23/32	9/16	6	2 1/4	5/8	9	342023	123.40	.6911 - .7220	175.70	149.45	140.75	136.60	132.05	128.55
.7500	3/4	5/8	6	2 1/2	3/4	9 1/2	342024	125.40	.7221 - .7530	177.65	151.45	142.70	138.50	134.05	130.45
.7812	25/32	5/8	6	2 1/2	3/4	9 1/2	342025	128.55	.7531 - .7840	180.95	154.75	145.95	141.75	137.30	133.70
.8125	13/16	5/8	6	2 1/2	3/4	9 1/2	342026	128.55	.7841 - .8160	180.95	154.75	145.95	141.75	137.30	133.70
.8438	27/32	5/8	6	2 1/2	3/4	9 1/2	342027	135.60	.8161 - .8470	188.00	161.75	153.00	148.85	144.25	140.75
.8750	7/8	3/4	6	2 5/8	3/4	10	342028	140.75	.8471 - .8780	195.00	167.85	158.60	154.45	149.70	146.00
.9062	29/32	3/4	6	2 5/8	3/4	10	342029	163.95	.8781 - .9090	218.20	191.10	181.95	177.60	172.90	169.30
.9375	15/16	3/4	8	2 5/8	3/4	10	342030	163.95	.9091 - .9410	218.20	191.10	181.95	177.60	172.90	169.30
.9688	31/32	3/4	8	2 5/8	3/4	10	342031	171.95	.9411 - .9720	226.25	199.00	190.00	185.55	180.90	177.30
1.0000	1	7/8	8	2 3/4	3/4	10 1/2	342032	171.95	.9721 - 1.0030	226.25	199.00	190.00	185.55	180.90	177.30
1.0625	1 1/16	7/8	8	2 3/4	3/4	10 1/2	342034	184.40	1.0031 - 1.0660	238.75	211.55	202.50	198.05	193.40	189.80
1.1250	1 1/8	7/8	8	2 7/8	7/8	11	342036	190.15	1.0661 - 1.1280	244.35	217.30	208.10	203.75	199.05	195.55
1.1875	1 3/16	1	8	2 7/8	7/8	11	342038	199.85	1.1281 - 1.1905	254.10	226.90	217.75	213.40	208.80	205.10
1.2500	1 1/4	1	8	3	7/8	11 1/2	342040	211.50	1.1906 - 1.2530	265.75	238.45	229.50	225.10	220.45	216.85
1.3125	1 5/16	1	8	3	7/8	11 1/2	342042	233.95	1.2531 - 1.3155	288.35	261.15	251.85	247.65	243.00	239.30
1.3750	1 3/8	1	8	3 1/4	7/8	12	342044	256.40	1.3156 - 1.3780	310.65	283.55	274.40	270.10	265.35	261.75
1.4375	1 7/16	1 1/4	8	3 1/4	7/8	12	342046	271.55	1.3781 - 1.4405	325.90	298.70	289.60	285.35	280.60	276.95
1.5000	1 1/2	1 1/4	8	3 1/2	7/8	12 1/2	342048	286.90	1.4406 - 1.5030	341.15	313.95	305.00	300.45	295.95	292.25

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

Made in U.S.A.

CARBIDE TIPPED 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	\$95.45	4.494 - 5.182	\$133.70	\$108.40	\$99.70	\$95.60	\$91.30	\$87.85	\$83.00
5.0	.1969	1/64	4	1 1/8	1/2	4 1/2	3410050	3420050	95.45	-	-	-	-	-	-	-	-
5.5	.2165	1/64	4	1 1/4	1/2	5	3410055	3420055	95.45	5.183 - 5.613	133.70	108.40	99.70	95.60	91.30	87.85	83.00
6.0	.2362	7/32	4	1 1/2	1/2	6	3410060	3420060	95.45	5.614 - 6.045	133.70	108.40	99.70	95.60	91.30	87.85	83.00
-	.2480	15/64	4	1 1/2	1/2	6	3410063	3420063	-	6.046 - 6.426	133.70	108.40	99.70	95.60	91.30	87.85	83.00
6.5	.2559	15/64	4	1 1/2	1/2	6	3410065	3420065	95.60	6.427 - 7.214	133.90	108.55	100.05	95.90	91.50	88.00	83.15
7.0	.2756	15/64	4	1 1/2	1/2	6	3410070	3420070	95.60	-	-	-	-	-	-	-	-
7.5	.2953	9/32	4	1 1/2	1/2	6	3410075	3420075	95.60	7.215 - 8.001	133.90	108.55	100.05	95.90	91.50	88.00	83.15
8.0	.3150	9/32	4	1 1/2	1/2	6	3410080	3420080	95.60	-	-	-	-	-	-	-	-
8.5	.3346	9/32	4	1 1/2	5/8	6	3410085	3420085	103.55	8.002 - 8.814	141.80	116.50	107.90	103.80	99.50	96.05	91.05
9.0	.3543	5/16	4	1 3/4	5/8	7	3410090	3420090	104.30	8.815 - 9.601	142.70	117.25	108.70	104.45	100.40	96.65	91.90
9.5	.3740	5/16	4	1 3/4	5/8	7	3410095	3420095	104.30	-	-	-	-	-	-	-	-
10.0	.3937	5/16	4	1 3/4	5/8	7	3410100	3420100	108.40	9.602 - 10.389	146.70	121.25	112.75	108.55	104.25	100.70	95.90
10.5	.4134	3/8	4	1 3/4	5/8	7	3410105	3420105	112.00	10.390 - 11.201	150.30	124.95	116.35	112.15	107.90	104.30	99.50
11.0	.4331	3/8	4	1 3/4	5/8	7	3410110	3420110	112.00	-	-	-	-	-	-	-	-
11.5	.4528	3/8	4	1 3/4	5/8	7	3410115	3420115	117.90	11.202 - 11.989	156.20	130.70	122.25	118.05	113.75	110.15	105.30
12.0	.4724	7/16	6	2	5/8	8	3410120	3420120	122.05	11.990 - 12.776	161.35	135.35	126.55	122.25	117.90	114.20	109.25
12.5	.4921	7/16	6	2	5/8	8	3410125	3420125	122.05	-	-	-	-	-	-	-	-
13.0	.5118	7/16	6	2	5/8	8	3410130	3420130	125.30	12.777 - 13.564	164.65	138.50	129.75	125.50	121.10	117.50	112.50
13.5	.5315	7/16	6	2	5/8	8	3410135	3420135	125.30	-	-	-	-	-	-	-	-
14.0	.5512	7/16	6	2	5/8	8	3410140	3420140	125.30	13.565 - 14.376	164.65	138.50	129.75	125.50	121.10	117.50	112.50
14.5	.5709	7/16	6	2	5/8	8	3410145	3420145	128.45	14.377 - 15.164	167.80	141.75	132.90	128.60	124.25	120.70	115.65
15.0	.5906	7/16	6	2	5/8	8	3410150	3420150	128.45	-	-	-	-	-	-	-	-
15.5	.6102	9/16	6	2 1/4	5/8	9	3410155	3420155	128.45	15.165 - 15.951	167.80	141.75	132.90	128.60	124.25	120.70	115.65
16.0	.6299	9/16	6	2 1/4	5/8	9	3410160	3420160	131.70	15.952 - 16.739	171.00	144.85	136.20	131.85	127.45	123.95	118.90
16.5	.6496	9/16	6	2 1/4	5/8	9	3410165	3420165	131.70	-	-	-	-	-	-	-	-
17.0	.6693	9/16	6	2 1/4	5/8	9	3410170	3420170	139.05	16.740 - 17.551	178.35	152.30	143.55	139.25	134.85	131.30	126.15
17.5	.6890	9/16	6	2 1/4	5/8	9	3410175	3420175	139.05	-	-	-	-	-	-	-	-
18.0	.7087	9/16	6	2 1/4	5/8	9	3410180	3420180	140.75	17.552 - 18.339	180.15	154.00	145.25	140.95	136.60	132.90	127.95
18.5	.7283	5/8	6	2 1/2	3/4	9 1/2	3410185	3420185	142.70	18.340 - 19.126	181.95	156.05	147.15	142.90	138.50	134.85	129.90
19.0	.7480	5/8	6	2 1/2	3/4	9 1/2	3410190	3420190	142.70	-	-	-	-	-	-	-	-
19.5	.7677	5/8	6	2 1/2	3/4	9 1/2	3410195	3420195	145.95	19.127 - 19.914	185.35	159.20	150.40	146.10	141.75	138.05	133.15
20.0	.7874	5/8	6	2 1/2	3/4	9 1/2	3410200	3420200	145.95	19.915 - 20.726	185.35	159.20	150.40	146.10	141.75	138.05	133.15
20.5	.8071	5/8	6	2 1/2	3/4	9 1/2	3410205	3420205	145.95	-	-	-	-	-	-	-	-
21.0	.8268	5/8	6	2 1/2	3/4	9 1/2	3410210	3420210	153.00	20.727 - 21.514	192.40	166.25	157.50	153.20	148.85	145.20	140.05
21.5	.8465	5/8	6	2 1/2	3/4	9 1/2	3410215	3420215	153.00	-	-	-	-	-	-	-	-
22.0	.8661	3/4	6	2 5/8	3/4	10	3410220	3420220	153.00	21.515 - 22.301	192.40	166.25	157.50	153.20	148.85	145.20	140.05
22.5	.8858	3/4	6	2 5/8	3/4	10	3410225	3420225	181.95	22.302 - 23.089	222.75	195.70	186.55	182.20	177.60	173.85	168.65
23.0	.9055	3/4	6	2 5/8	3/4	10	3410230	3420230	181.95	-	-	-	-	-	-	-	-
23.5	.9252	3/4	8	2 5/8	3/4	10	3410235	3420235	181.95	23.090 - 23.901	222.75	195.70	186.55	182.20	177.60	173.85	168.65
24.0	.9449	3/4	8	2 5/8	3/4	10	3410240	3420240	190.00	23.902 - 24.689	230.80	203.65	194.60	190.15	185.55	181.80	176.70
24.5	.9646	3/4	8	2 5/8	3/4	10	3410245	3420245	190.00	-	-	-	-	-	-	-	-
25.0	.9843	7/8	8	2 3/4	3/4	10 1/2	3410250	3420250	190.00	24.690 - 25.476	230.80	203.65	194.60	190.15	185.55	181.80	176.70
25.5	1.0039	7/8	8	2 3/4	3/4	10 1/2	3410255	3420255	202.50	25.477 - 27.076	243.30	216.25	207.20	202.75	198.05	194.40	189.15
26.0	1.0236	7/8	8	2 3/4	3/4	10 1/2	3410260	3420260	202.50	-	-	-	-	-	-	-	-
27.0	1.0630	7/8	8	2 3/4	3/4	10 1/2	3410270	3420270	202.50	-	-	-	-	-	-	-	-
28.0	1.1024	7/8	8	2 7/8	7/8	11	3410280	3420280	208.10	27.077 - 28.651	248.95	221.90	212.95	208.40	203.75	200.00	194.75
29.0	1.1417	1	8	2 7/8	7/8	11	3410290	3420290	217.75	28.652 - 30.239	258.70	231.55	222.50	218.05	213.40	209.65	204.50
30.0	1.1811	1	8	2 7/8	7/8	11	3410300	3420300	217.75	-	-	-	-	-	-	-	-
31.0	1.2205	1	8	3	7/8	11 1/2	3410310	3420310	229.50	30.240 - 31.826	270.25	243.20	234.10	229.65	225.10	221.30	216.15
32.0	1.2598	1	8	3	7/8	11 1/2	3410320	3420320	251.85	31.827 - 33.414	292.80	265.75	256.60	252.20	247.65	244.00	238.60
33.0	1.2992	1	8	3	7/8	11 1/2	3410330	3420330	251.85	-	-	-	-	-	-	-	-
34.0	1.3386	1	8	3 1/4	7/8	12	3410340	3420340	274.40	33.415 - 35.001	315.35	288.15	279.10	274.65	270.10	266.30	261.15
35.0	1.3780	1	8	3 1/4	7/8	12	3410350	3420350	274.40	-	-	-	-	-	-	-	-
36.0	1.4173	1 1/4	8	3 1/4	7/8	12	3410360	3420360	289.60	35.002 - 36.589	330.45	303.30	294.25	289.80	285.35	281.45	276.25
37.0	1.4567	1 1/4	8	3 1/2	7/8	12 1/2	3410370	3420370	305.00	36.590 - 38.176	345.70	318.70	309.60	305.15	300.45	296.80	291.60
38.0	1.4961	1 1/4	8	3 1/2	7/8	12 1/2	3410380	3420380	305.00	-	-	-	-	-	-	-	-

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	\$82.40	.2381 - .2530	\$132.55	\$107.30	\$99.05	\$94.95	\$90.70	\$87.30
.2812	9/32	1	4	1 1/2	1/2	6	341209	342209	82.40	.2531 - .2840	132.55	107.30	99.05	94.95	90.70	87.30
.3125	5/16	1	4	1 1/2	1/2	6	341210	342210	84.25	.2841 - .3150	134.45	109.25	100.80	96.65	92.45	89.05
.3438	11/32	1	4	1 1/2	5/8	6	341211	342211	85.70	.3151 - .3470	135.75	110.70	102.35	98.20	93.95	90.60
.3750	3/8	1	4	1 3/4	5/8	7	341212	342212	86.85	.3471 - .3780	137.05	112.05	103.55	99.55	95.30	91.90
.4062	13/32	1	4	1 3/4	5/8	7	341213	342213	91.05	.3781 - .4090	141.40	116.10	107.75	103.80	99.40	96.10
.4375	7/16	1	4	1 3/4	5/8	7	341214	342214	95.05	.4091 - .4410	145.20	120.10	111.70	107.60	103.30	99.95
.4688	15/32	1	4	1 3/4	5/8	7	341215	342215	98.90	.4411 - .4720	148.95	123.80	115.45	111.30	107.00	103.70
.5000	1/2	1	6	2	5/8	8	341216	342216	113.85	.4721 - .5030	167.25	140.40	131.45	127.25	122.70	119.05
.5312	17/32	1	6	2	5/8	8	341217	342217	116.80	.5031 - .5340	170.30	143.50	134.60	130.30	125.65	122.05
.5625	9/16	1	6	2	5/8	8	341218	342218	116.80	.5341 - .5660	170.30	143.50	134.60	130.30	125.65	122.05
.5938	19/32	1	6	2	5/8	8	341219	342219	121.40	.5661 - .5970	174.90	148.00	139.10	134.85	130.30	126.70
.6250	5/8	2	6	2 1/4	5/8	9	341220	342220	121.40	.5971 - .6280	174.90	148.00	139.10	134.85	130.30	126.70
.6875	11/16	2	6	2 1/4	5/8	9	341222	342222	133.20	.6591 - .6910	186.70	159.80	151.00	146.70	142.05	138.50
.7500	3/4	2	6	2 1/2	3/4	9 1/2	341224	342224	140.90	.7221 - .7530	194.30	167.65	158.50	154.35	149.70	146.10
.8125	13/16	2	6	2 1/2	3/4	9 1/2	341226	342226	146.80	.7841 - .8160	200.35	173.55	164.40	160.30	155.60	152.00
.8750	7/8	2	6	2 5/8	3/4	10	341228	342228	158.05	.8471 - .8780	213.55	185.65	176.35	172.00	167.25	163.50
.9375	15/16	3	8	2 5/8	3/4	10	341230	342230	183.80	.9091 - .9410	239.30	211.55	202.15	197.70	192.95	189.25
1.0000	1	3	8	2 3/4	3/4	10 1/2	341232	342232	190.15	.9721 - 1.0030	245.60	217.75	208.55	204.10	199.35	195.60

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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 5/16" - 2 1/2"	.015"



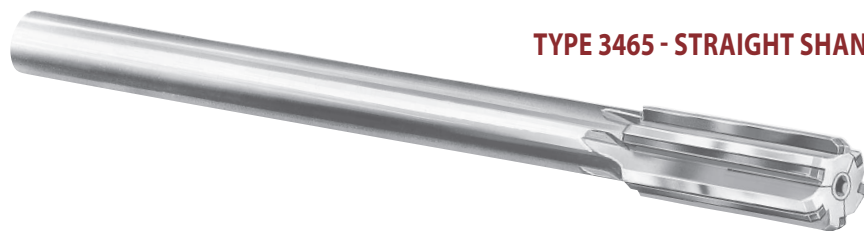
For reamer tolerances and closer tolerance pricing, see page 60.

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	\$102.85	.2841 - .3150	\$156.45	\$129.60	\$120.50	\$116.50	\$111.90	\$108.25
.3438	11/32	5/32	4	1	6	346511	102.85	.3151 - .3470	156.45	129.60	120.50	116.50	111.90	108.25
.3750	3/8	5/16	4	1	7	346512	96.45	.3471 - .3780	146.70	121.50	113.00	109.05	104.80	101.35
.4062	13/32	5/16	4	1	7	346513	102.40	.3781 - .4090	152.45	127.30	118.95	115.00	110.70	107.25
.4375	7/16	3/8	4	1	7	346514	102.40	.4091 - .4410	152.45	127.30	118.95	115.00	110.70	107.25
.4688	15/32	3/8	4	1	7	346515	108.55	.4411 - .4720	158.50	133.45	125.15	121.10	116.80	113.50
.5000	1/2	7/16	6	1	8	346516	108.55	.4721 - .5030	158.50	133.45	125.15	121.10	116.80	113.50
.5312	17/32	7/16	6	1	8	346517	111.15	.5031 - .5340	161.40	136.30	127.85	123.85	119.55	116.10
.5625	9/16	7/16	6	1 1/8	8	346518	111.15	.5341 - .5660	161.40	136.30	127.85	123.85	119.55	116.10
.5938	19/32	7/16	6	1 1/8	8	346519	116.05	.5661 - .5970	166.25	141.20	132.75	128.70	124.40	121.05
.6250	5/8	7/16	6	1 1/4	9	346520	116.05	.5971 - .6280	166.25	141.20	132.75	128.70	124.40	121.05
.6562	21/32	7/16	6	1 1/4	9	346521	127.00	.6281 - .6590	177.05	151.90	143.55	139.60	135.20	131.85
.6875	11/16	7/16	6	1 1/4	9	346522	127.00	.6591 - .6910	177.05	151.90	143.55	139.60	135.20	131.85
.7188	23/32	7/16	6	1 1/4	9	346523	131.60	.6911 - .7220	181.90	156.60	148.15	144.25	139.95	136.60
.7500	3/4	5/8	6	1 3/8	9 1/2	346524	131.60	.7221 - .7530	181.90	156.60	148.15	144.25	139.95	136.60
.7812	25/32	5/8	6	1 3/8	9 1/2	346525	141.90	.7531 - .7840	192.10	166.95	158.45	154.55	150.25	146.85
.8125	13/16	5/8	6	1 3/8	9 1/2	346526	141.90	.7841 - .8160	192.10	166.95	158.45	154.55	150.25	146.85
.8438	27/32	5/8	6	1 3/8	9 1/2	346527	147.55	.8161 - .8470	197.55	172.55	164.10	160.05	155.90	152.40
.8750	7/8	3/4	6	1 1/2	10	346528	153.05	.8471 - .8780	204.95	179.00	170.15	166.20	161.65	158.15
.9062	29/32	3/4	6	1 1/2	10	346529	162.90	.8781 - .9090	215.00	188.80	180.20	176.05	171.55	168.00
.9375	15/16	3/4	8	1 1/2	10	346530	162.90	.9091 - .9410	215.00	188.80	180.20	176.05	171.55	168.00
.9688	31/32	3/4	8	1 1/2	10	346531	169.30	.9411 - .9720	221.20	195.25	186.40	182.35	177.85	174.30
1.0000	1	7/8	8	1 5/8	10 1/2	346532	169.30	.9721 - 1.0030	221.20	195.25	186.40	182.35	177.85	174.30
1.0312	1 1/32	7/8	8	1 5/8	10 1/2	346533	185.50	-	-	-	-	-	-	-
1.0625	1 1/16	7/8	8	1 5/8	10 1/2	346534	185.50	1.0031 - 1.0660	237.55	211.50	202.75	198.60	194.10	190.55
1.0938	1 3/32	7/8	8	1 3/4	11	346535	185.50	-	-	-	-	-	-	-
1.1250	1 1/8	7/8	8	1 3/4	11	346536	185.50	1.0661 - 1.1280	237.55	211.50	202.75	198.60	194.10	190.55
1.1875	1 3/16	1	8	1 3/4	11	346538	202.45	1.1281 - 1.1905	254.50	228.35	219.60	215.45	210.95	207.65
1.2500	1 1/4	1	8	1 7/8	11 1/2	346540	202.45	1.1906 - 1.2530	254.50	228.35	219.60	215.45	210.95	207.65
1.3125	1 5/16	1	8	1 7/8	11 1/2	346542	224.35	1.2531 - 1.3155	276.50	250.40	241.75	237.55	233.00	229.65
1.3750	1 3/8	1	8	2	12	346544	235.00	1.3156 - 1.3780	287.00	260.90	252.20	248.20	243.50	240.05
1.4375	1 7/16	1 1/4	8	2	12	346546	277.70	1.3781 - 1.4405	333.20	305.35	296.00	291.60	286.80	283.15
1.5000	1 1/2	1 1/4	8	2 1/8	12 1/2	346548	285.75	1.4406 - 1.5030	341.30	313.40	304.20	299.85	295.05	291.20
1.5625	1 9/16	1 1/4	8	2 1/8	12 1/2	346550	375.35	1.5031 - 1.5660	430.75	403.10	393.60	389.15	384.50	380.70
1.6250	1 5/8	1 1/4	8	2 1/4	13	346552	375.35	1.5661 - 1.6280	430.75	403.10	393.60	389.15	384.50	380.70
1.6875	1 11/16	1 1/4	8	2 1/4	13	346554	415.65	1.6281 - 1.6910	471.15	443.35	434.15	429.60	424.95	421.05
1.7500	1 3/4	1 1/4	10	2 3/8	13 1/2	346556	415.65	1.6911 - 1.7530	471.15	443.35	434.15	429.60	424.95	421.05
1.8125	1 13/16	1 1/2	10	2 3/8	13 1/2	346558	492.25	1.7531 - 1.8160	547.60	519.85	510.55	506.10	501.45	497.60
1.8750	1 7/8	1 1/2	10	2 1/2	14	346560	492.25	1.8161 - 1.8780	547.60	519.85	510.55	506.10	501.45	497.60
1.9375	1 15/16	1 1/2	10	2 1/2	14	346562	537.80	1.8781 - 1.9410	593.20	565.45	556.10	551.55	546.95	543.15
2.0000	2	1 1/2	12	2 1/2	14	346564	537.80	1.9411 - 2.0030	593.20	565.45	556.10	551.55	546.95	543.15
2.1250	2 1/8	1 1/2	12	2 3/4	14 1/2	346568	873.45	2.0031 - 2.1280	929.00	901.15	891.90	887.55	882.70	878.85
2.2500	2 1/4	1 3/4	12	2 3/4	14 1/2	346572	938.10	2.1281 - 2.2530	993.45	965.70	956.45	952.00	947.25	943.50
2.3750	2 3/8	1 3/4	12	3	15	346576	970.75	2.2531 - 2.3780	1026.35	998.50	989.15	984.70	979.95	976.15
2.5000	2 1/2	1 3/4	12	3	15	346580	970.75	2.3781 - 2.5030	1026.35	998.50	989.15	984.70	979.95	976.15

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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	\$120.50	7.215 - 8.001	\$160.95	\$134.20	\$125.25	\$120.95	\$116.50	\$112.70	107.45
8.0	.3150	5/32	4	1	6	3465080	120.50	-	-	-	-	-	-	-	-
8.5	.3346	5/32	4	1	6	3465085	120.50	8.002 - 8.814	160.95	134.20	125.25	120.95	116.50	112.70	107.45
9.0	.3543	5/16	4	1	7	3465090	113.00	8.815 - 9.601	150.90	125.80	117.35	113.45	109.05	105.60	100.80
9.5	.3740	5/16	4	1	7	3465095	113.00	-	-	-	-	-	-	-	-
10.0	.3937	5/16	4	1	7	3465100	118.95	9.602 - 10.389	156.60	131.60	123.25	119.10	115.00	111.35	106.70
10.5	.4134	3/8	4	1	7	3465105	118.95	10.390 - 11.201	156.60	131.60	123.25	119.10	115.00	111.35	106.70
11.0	.4331	3/8	4	1	7	3465110	118.95	-	-	-	-	-	-	-	-
11.5	.4528	3/8	4	1	7	3465115	125.15	11.202 - 11.989	162.75	137.80	129.30	125.30	121.10	117.60	112.75
12.0	.4724	7/16	6	1	8	3465120	125.15	11.990 - 12.776	162.75	137.80	129.30	125.30	121.10	117.60	112.75
12.5	.4921	7/16	6	1	8	3465125	125.15	-	-	-	-	-	-	-	-
13.0	.5118	7/16	6	1	8	3465130	127.85	12.777 - 13.564	165.65	140.60	132.15	128.15	123.85	120.35	115.60
13.5	.5315	7/16	6	1	8	3465135	127.85	-	-	-	-	-	-	-	-
14.0	.5512	7/16	6	1 1/8	8	3465140	127.85	13.565 - 14.376	165.65	140.60	132.15	128.15	123.85	120.35	115.60
14.5	.5709	7/16	6	1 1/8	8	3465145	132.75	14.377 - 15.164	170.45	145.35	136.95	132.90	128.70	125.25	120.35
15.0	.5906	7/16	6	1 1/8	8	3465150	132.75	-	-	-	-	-	-	-	-
15.5	.6102	7/16	6	1 1/4	9	3465155	132.75	15.165 - 15.951	170.45	145.35	136.95	132.90	128.70	125.25	120.35
16.0	.6299	7/16	6	1 1/4	9	3465160	143.55	15.952 - 16.739	181.20	156.30	147.85	143.70	139.60	136.15	131.30
16.5	.6496	7/16	6	1 1/4	9	3465165	143.55	-	-	-	-	-	-	-	-
17.0	.6693	7/16	6	1 1/4	9	3465170	143.55	16.740 - 17.551	181.20	156.30	147.85	143.70	139.60	136.15	131.30
17.5	.6890	7/16	6	1 1/4	9	3465175	143.55	-	-	-	-	-	-	-	-
18.0	.7087	7/16	6	1 1/4	9	3465180	148.15	17.552 - 18.339	186.05	160.95	152.55	148.55	144.25	140.80	136.00
18.5	.7283	7/8	6	1 3/8	9 1/2	3465185	148.15	18.340 - 19.126	186.05	160.95	152.55	148.55	144.25	140.80	136.00
19.0	.7480	7/8	6	1 3/8	9 1/2	3465190	148.15	-	-	-	-	-	-	-	-
19.5	.7677	7/8	6	1 3/8	9 1/2	3465195	158.45	19.127 - 19.914	196.40	171.30	162.75	158.60	154.55	151.10	146.15
20.0	.7874	7/8	6	1 3/8	9 1/2	3465200	158.45	19.915 - 20.726	196.40	171.30	162.75	158.60	154.55	151.10	146.15
20.5	.8071	7/8	6	1 3/8	9 1/2	3465205	158.45	-	-	-	-	-	-	-	-
21.0	.8268	7/8	6	1 3/8	9 1/2	3465210	164.10	20.727 - 21.514	201.80	176.85	168.30	164.25	160.05	156.50	151.75
21.5	.8465	7/8	6	1 3/8	9 1/2	3465215	164.10	-	-	-	-	-	-	-	-
22.0	.8661	3/4	6	1 1/2	10	3465220	164.10	21.515 - 22.301	201.80	176.85	168.30	164.25	160.05	156.50	151.75
22.5	.8858	3/4	6	1 1/2	10	3465225	180.20	22.302 - 23.089	219.30	193.40	184.55	180.35	176.05	172.45	167.40
23.0	.9055	3/4	6	1 1/2	10	3465230	180.20	-	-	-	-	-	-	-	-
23.5	.9252	3/4	8	1 1/2	10	3465235	180.20	23.090 - 23.901	219.30	193.40	184.55	180.35	176.05	172.45	167.40
24.0	.9449	3/4	8	1 1/2	10	3465240	186.40	23.902 - 24.689	225.60	199.65	191.00	186.65	182.35	178.65	173.70
24.5	.9646	3/4	8	1 1/2	10	3465245	186.40	-	-	-	-	-	-	-	-
25.0	.9843	7/8	8	1 5/8	10 1/2	3465250	186.40	24.690 - 25.476	225.60	199.65	191.00	186.65	182.35	178.65	173.70
25.5	1.0039	7/8	8	1 5/8	10 1/2	3465255	202.75	25.477 - 27.076	241.90	215.90	207.10	202.90	198.60	194.90	189.95
26.0	1.0236	7/8	8	1 5/8	10 1/2	3465260	202.75	-	-	-	-	-	-	-	-
27.0	1.0630	7/8	8	1 5/8	10 1/2	3465270	202.75	-	-	-	-	-	-	-	-
28.0	1.1024	7/8	8	1 3/4	11	3465280	202.75	27.077 - 28.651	241.90	215.90	207.10	202.90	198.60	194.90	189.95
29.0	1.1417	1	8	1 3/4	11	3465290	219.60	28.652 - 30.239	258.75	232.80	224.10	219.75	215.45	211.95	206.80
30.0	1.1811	1	8	1 3/4	11	3465300	219.60	-	-	-	-	-	-	-	-
31.0	1.2205	1	8	1 7/8	11 1/2	3465310	219.60	30.240 - 31.826	258.75	232.80	224.10	219.75	215.45	211.95	206.80
32.0	1.2598	1	8	1 7/8	11 1/2	3465320	241.75	31.827 - 33.414	280.75	254.80	246.20	241.90	237.55	233.95	228.95
33.0	1.2992	1	8	1 7/8	11 1/2	3465330	241.75	-	-	-	-	-	-	-	-
34.0	1.3386	1	8	2	12	3465340	252.20	33.415 - 35.001	291.35	265.35	256.60	252.50	248.20	244.45	239.40
35.0	1.3780	1	8	2	12	3465350	252.20	-	-	-	-	-	-	-	-
36.0	1.4173	1 1/4	8	2	12	3465360	296.00	35.002 - 36.589	337.70	310.15	300.85	296.25	291.60	287.75	282.45
37.0	1.4567	1 1/4	8	2 1/8	12 1/2	3465370	304.20	36.590 - 38.176	346.00	318.35	309.05	304.40	299.85	295.95	290.65
38.0	1.4961	1 1/4	8	2 1/8	12 1/2	3465380	304.20	-	-	-	-	-	-	-	-
39.0	1.5354	1 1/4	8	2 1/8	12 1/2	3465390	393.60	38.177 - 39.776	435.45	407.70	398.35	393.90	389.15	385.25	380.05
40.0	1.5748	1 1/4	8	2 1/4	13	3465400	393.60	39.777 - 41.351	435.45	407.70	398.35	393.90	389.15	385.25	380.05
41.0	1.6142	1 1/4	8	2 1/4	13	3465410	393.60	-	-	-	-	-	-	-	-
42.0	1.6535	1 1/4	8	2 1/4	13	3465420	434.15	41.352 - 42.951	475.75	448.10	438.80	434.40	429.60	425.70	420.35
43.0	1.6929	1 1/4	10	2 3/8	13 1/2	3465430	434.15	42.952 - 44.526	475.75	448.10	438.80	434.40	429.60	425.70	420.35
44.0	1.7323	1 1/4	10	2 3/8	13 1/2	3465440	434.15	-	-	-	-	-	-	-	-

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

Made in U.S.A.

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 9/16" - 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	\$115.90	.2841 - .3150	\$169.45	\$142.55	\$133.70	\$129.30	\$124.85	\$121.20
.3438	11/32	1	4	1	6	346711	115.90	.3151 - .3470	169.45	142.55	133.70	129.30	124.85	121.20
.3750	3/8	1	4	1	7	346712	108.70	.3471 - .3780	158.90	133.70	125.30	121.35	117.05	113.65
.4062	13/32	1	4	1	7	346713	112.05	.3781 - .4090	162.20	136.95	128.60	124.65	120.25	116.90
.4375	7/16	1	4	1	7	346714	112.05	.4091 - .4410	162.20	136.95	128.60	124.65	120.25	116.90
.4688	15/32	1	4	1	7	346715	117.50	.4411 - .4720	167.70	142.55	134.15	130.15	125.80	122.40
.5000	1/2	1	6	1	8	346716	117.50	.4721 - .5030	167.70	142.55	134.15	130.15	125.80	122.40
.5312	17/32	1	6	1	8	346717	121.10	.5031 - .5340	171.30	146.10	137.75	133.70	129.30	125.95
.5625	9/16	1	6	1 1/8	8	346718	121.10	.5341 - .5660	171.30	146.10	137.75	133.70	129.30	125.95
.5938	19/32	1	6	1 1/8	8	346719	125.95	.5661 - .5970	176.15	151.10	142.70	138.65	134.45	131.00
.6250	5/8	2	6	1 1/4	9	346720	125.95	.5971 - .6280	176.15	151.10	142.70	138.65	134.45	131.00
.6562	21/32	2	6	1 1/4	9	346721	141.80	.6281 - .6590	192.00	166.70	158.35	154.45	150.10	146.80
.6875	11/16	2	6	1 1/4	9	346722	141.80	.6591 - .6910	192.00	166.70	158.35	154.45	150.10	146.80
.7188	23/32	2	6	1 1/4	9	346723	142.10	.6911 - .7220	192.40	167.35	158.90	154.90	150.45	147.15
.7500	3/4	2	6	1 3/8	9 1/2	346724	142.10	.7221 - .7530	192.40	167.35	158.90	154.90	150.45	147.15
.7812	25/32	2	6	1 3/8	9 1/2	346725	152.70	.7531 - .7840	202.90	177.65	169.40	165.40	160.95	157.65
.8125	13/16	2	6	1 3/8	9 1/2	346726	152.70	.7841 - .8160	202.90	177.65	169.40	165.40	160.95	157.65
.8438	27/32	2	6	1 3/8	9 1/2	346727	159.15	.8161 - .8470	209.25	184.10	175.70	171.60	167.40	163.95
.8750	7/8	2	6	1 1/2	10	346728	165.20	.8471 - .8780	217.05	191.15	182.35	178.20	173.70	170.10
.9062	29/32	2	6	1 1/2	10	346729	174.60	.8781 - .9090	226.65	200.60	191.80	187.65	183.20	179.75
.9375	15/16	3	8	1 1/2	10	346730	174.60	.9091 - .9410	226.65	200.60	191.80	187.65	183.20	179.75
.9688	31/32	3	8	1 1/2	10	346731	180.95	.9411 - .9720	232.85	206.80	198.05	193.90	189.55	185.95
1.0000	1	3	8	1 5/8	10 1/2	346732	180.95	.9721 - 1.0030	232.85	206.80	198.05	193.90	189.55	185.95
1.0312	1 1/32	3	8	1 5/8	10 1/2	346733	197.90	-	-	-	-	-	-	-
1.0625	1 1/16	3	8	1 5/8	10 1/2	346734	197.90	1.0031 - 1.0660	250.20	223.95	215.25	211.10	206.65	203.05
1.0938	1 3/32	3	8	1 3/4	11	346735	197.90	-	-	-	-	-	-	-
1.1250	1 1/8	3	8	1 3/4	11	346736	197.90	1.0661 - 1.1280	250.20	223.95	215.25	211.10	206.65	203.05
1.1875	1 3/16	3	8	1 3/4	11	346738	222.65	1.1281 - 1.1905	274.65	248.60	239.90	235.80	231.35	227.80
1.2500	1 1/4	4	8	1 7/8	11 1/2	346740	225.65	1.1906 - 1.2530	277.70	251.65	243.00	238.85	234.25	230.80
1.3125	1 5/16	4	8	1 7/8	11 1/2	346742	246.65	1.2531 - 1.3155	298.70	272.55	263.85	259.75	255.40	251.70
1.3750	1 3/8	4	8	2	12	346744	270.25	1.3156 - 1.3780	322.15	296.20	287.50	283.30	278.80	275.25
1.4375	1 7/16	4	8	2	12	346746	303.30	1.3781 - 1.4405	358.80	331.05	321.70	317.25	312.50	308.75
1.5000	1 1/2	4	8	2 1/8	12 1/2	346748	314.10	1.4406 - 1.5030	369.70	341.70	332.35	328.05	323.25	319.50
1.5625	1 9/16	4	8	2 1/8	12 1/2	346750	431.55	1.5031 - 1.5660	487.10	459.30	450.00	445.65	440.75	437.00
1.6250	1 5/8	4	8	2 1/4	13	346752	431.55	1.5661 - 1.6280	487.10	459.30	450.00	445.65	440.75	437.00
1.6875	1 11/16	4	8	2 1/4	13	346754	478.00	1.6281 - 1.6910	533.55	505.75	496.40	491.85	487.20	483.45
1.7500	1 3/4	4	10	2 3/8	13 1/2	346756	478.00	1.6911 - 1.7530	533.55	505.75	496.40	491.85	487.20	483.45
1.8125	1 13/16	4	10	2 3/8	13 1/2	346758	565.90	1.7531 - 1.8160	621.50	593.75	584.45	579.95	575.10	571.45
1.8750	1 7/8	4	10	2 1/2	14	346760	565.90	1.8161 - 1.8780	621.50	593.75	584.45	579.95	575.10	571.45
1.9375	1 15/16	4	10	2 1/2	14	346762	618.50	1.8781 - 1.9410	673.90	646.10	636.75	632.35	627.55	624.00
2.0000	2	4	12	2 1/2	14	346764	618.50	1.9411 - 2.0030	673.90	646.10	636.75	632.35	627.55	624.00
2.1250	2 1/8	5	12	2 3/4	14 1/2	346768	925.95	2.0031 - 2.1280	981.45	953.70	944.35	939.90	935.20	931.35
2.2500	2 1/4	5	12	2 3/4	14 1/2	346772	994.40	2.1281 - 2.2530	1049.95	1022.05	1012.85	1008.25	1003.60	999.90
2.3750	2 3/8	5	12	3	15	346776	1028.95	2.2531 - 2.3780	1084.35	1056.70	1047.25	1043.00	1038.15	1034.45
2.5000	2 1/2	5	12	3	15	346780	1028.95	2.3781 - 2.5030	1084.35	1056.70	1047.25	1043.00	1038.15	1034.45

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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	\$133.70	7.215 - 8.001	\$173.90	\$147.25	\$138.35	\$133.90	\$129.30	\$125.65	\$120.40
8.0	.3150	1	4	1	6	3467080	133.70	-	-	-	-	-	-	-	-
8.5	.3346	1	4	1	6	3467085	133.70	8.002 - 8.814	173.90	147.25	138.35	133.90	129.30	125.65	120.40
9.0	.3543	1	4	1	7	3467090	125.30	8.815 - 9.601	163.05	137.95	129.60	125.50	121.35	117.80	112.90
9.5	.3740	1	4	1	7	3467095	125.30	-	-	-	-	-	-	-	-
10.0	.3937	1	4	1	7	3467100	128.60	9.602 - 10.389	166.35	141.40	132.90	128.75	124.65	121.10	116.20
10.5	.4134	1	4	1	7	3467105	128.60	10.390 - 11.201	166.35	141.40	132.90	128.75	124.65	121.10	116.20
11.0	.4331	1	4	1	7	3467110	128.60	-	-	-	-	-	-	-	-
11.5	.4528	1	4	1	7	3467115	134.15	11.202 - 11.989	171.95	146.85	138.50	134.45	130.15	126.70	121.80
12.0	.4724	1	6	1	8	3467120	134.15	11.990 - 12.776	171.95	146.85	138.50	134.45	130.15	126.70	121.80
12.5	.4921	1	6	1	8	3467125	134.15	-	-	-	-	-	-	-	-
13.0	.5118	1	6	1	8	3467130	137.75	12.777 - 13.564	175.55	150.40	141.95	137.90	133.70	130.30	125.40
13.5	.5315	1	6	1	8	3467135	137.75	-	-	-	-	-	-	-	-
14.0	.5512	1	6	1 1/8	8	3467140	137.75	13.565 - 14.376	175.55	150.40	141.95	137.90	133.70	130.30	125.40
14.5	.5709	1	6	1 1/8	8	3467145	142.70	14.377 - 15.164	180.35	155.30	147.00	142.95	138.65	135.15	130.40
15.0	.5906	1	6	1 1/8	8	3467150	142.70	-	-	-	-	-	-	-	-
15.5	.6102	2	6	1 1/4	9	3467155	142.70	15.165 - 15.951	180.35	155.30	147.00	142.95	138.65	135.15	130.40
16.0	.6299	2	6	1 1/4	9	3467160	158.35	15.952 - 16.739	196.20	171.10	162.65	158.50	154.45	151.00	146.10
16.5	.6496	2	6	1 1/4	9	3467165	158.35	-	-	-	-	-	-	-	-
17.0	.6693	2	6	1 1/4	9	3467170	158.35	16.740 - 17.551	196.20	171.10	162.65	158.50	154.45	151.00	146.10
17.5	.6890	2	6	1 1/4	9	3467175	158.35	-	-	-	-	-	-	-	-
18.0	.7087	2	6	1 1/4	9	3467180	158.90	17.552 - 18.339	196.60	171.55	163.25	159.15	154.90	151.30	146.55
18.5	.7283	2	6	1 3/8	9 1/2	3467185	158.90	18.340 - 19.126	196.60	171.55	163.25	159.15	154.90	151.30	146.55
19.0	.7480	2	6	1 3/8	9 1/2	3467190	158.90	-	-	-	-	-	-	-	-
19.5	.7677	2	6	1 3/8	9 1/2	3467195	169.40	19.127 - 19.914	207.05	182.10	173.70	169.55	165.40	161.80	157.00
20.0	.7874	2	6	1 3/8	9 1/2	3467200	169.40	19.915 - 20.726	207.05	182.10	173.70	169.55	165.40	161.80	157.00
20.5	.8071	2	6	1 3/8	9 1/2	3467205	169.40	-	-	-	-	-	-	-	-
21.0	.8268	2	6	1 3/8	9 1/2	3467210	175.70	20.727 - 21.514	213.40	188.40	180.05	175.85	171.60	168.10	163.40
21.5	.8465	2	6	1 3/8	9 1/2	3467215	175.70	-	-	-	-	-	-	-	-
22.0	.8661	2	6	1 1/2	10	3467220	175.70	21.515 - 22.301	213.40	188.40	180.05	175.85	171.60	168.10	163.40
22.5	.8858	2	6	1 1/2	10	3467225	191.80	22.302 - 23.089	231.00	204.95	196.40	192.00	187.65	184.10	179.05
23.0	.9055	2	6	1 1/2	10	3467230	191.80	-	-	-	-	-	-	-	-
23.5	.9252	3	8	1 1/2	10	3467235	191.80	23.090 - 23.901	231.00	204.95	196.40	192.00	187.65	184.10	179.05
24.0	.9449	3	8	1 1/2	10	3467240	198.05	23.902 - 24.689	237.30	211.40	202.65	198.45	193.90	190.30	185.40
24.5	.9646	3	8	1 1/2	10	3467245	198.05	-	-	-	-	-	-	-	-
25.0	.9843	3	8	1 5/8	10 1/2	3467250	198.05	24.690 - 25.476	237.30	211.40	202.65	198.45	193.90	190.30	185.40
25.5	1.0039	3	8	1 5/8	10 1/2	3467255	215.25	25.477 - 27.076	254.50	228.40	219.70	215.45	211.10	207.65	202.50
26.0	1.0236	3	8	1 5/8	10 1/2	3467260	215.25	-	-	-	-	-	-	-	-
27.0	1.0630	3	8	1 5/8	10 1/2	3467270	215.25	-	-	-	-	-	-	-	-
28.0	1.1024	3	8	1 3/4	11	3467280	215.25	27.077 - 28.651	254.50	228.40	219.70	215.45	211.10	207.65	202.50
29.0	1.1417	3	8	1 3/4	11	3467290	239.90	28.652 - 30.239	279.00	253.10	244.35	240.05	235.80	232.10	227.05
30.0	1.1811	3	8	1 3/4	11	3467300	239.90	-	-	-	-	-	-	-	-
31.0	1.2205	4	8	1 7/8	11 1/2	3467310	243.00	30.240 - 31.826	282.15	256.15	247.35	243.15	238.85	235.15	230.10
32.0	1.2598	4	8	1 7/8	11 1/2	3467320	263.85	31.827 - 33.414	303.00	277.00	268.45	264.15	259.75	256.15	251.20
33.0	1.2992	4	8	1 7/8	11 1/2	3467330	263.85	-	-	-	-	-	-	-	-
34.0	1.3386	4	8	2	12	3467340	287.50	33.415 - 35.001	326.55	300.70	291.90	287.65	283.30	279.60	274.65
35.0	1.3780	4	8	2	12	3467350	287.50	-	-	-	-	-	-	-	-
36.0	1.4173	4	8	2	12	3467360	321.70	35.002 - 36.589	363.45	335.75	326.40	321.95	317.25	313.35	308.15
37.0	1.4567	4	8	2 1/8	12 1/2	3467370	332.35	36.590 - 38.176	374.30	346.55	337.35	332.80	328.05	324.25	318.85
38.0	1.4961	4	8	2 1/8	12 1/2	3467380	332.35	-	-	-	-	-	-	-	-
39.0	1.5354	4	8	2 1/8	12 1/2	3467390	450.00	38.177 - 39.776	491.70	464.05	454.85	450.15	445.65	441.75	436.35
40.0	1.5748	4	8	2 1/4	13	3467400	450.00	39.777 - 41.351	491.70	464.05	454.85	450.15	445.65	441.75	436.35
41.0	1.6142	4	8	2 1/4	13	3467410	450.00	-	-	-	-	-	-	-	-
42.0	1.6535	4	8	2 1/4	13	3467420	496.40	41.352 - 42.951	538.15	510.50	501.20	496.70	491.85	488.20	482.65
43.0	1.6929	4	10	2 3/8	13 1/2	3467430	496.40	42.952 - 44.526	538.15	510.50	501.20	496.70	491.85	488.20	482.65
44.0	1.7323	4	10	2 3/8	13 1/2	3467440	496.40	-	-	-	-	-	-	-	-

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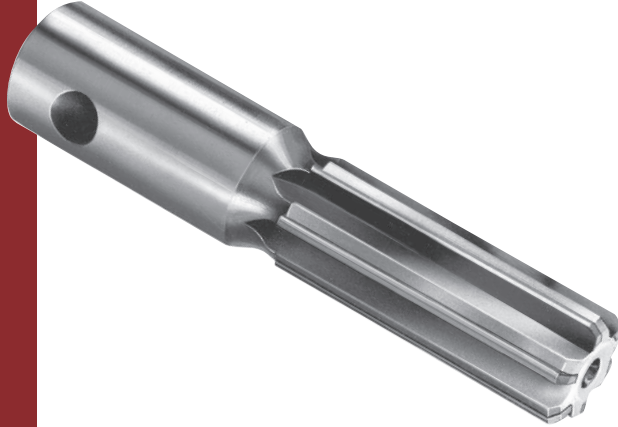
Diameters up to 63mm - call us for price & availability.

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CARBIDE TIPPED CNC STUB/SCREW MACHINE REAMERS

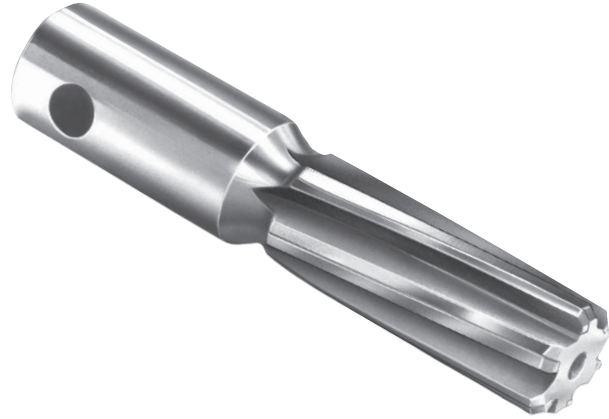
TYPE 3430 - STRAIGHT FLUTE LONG CARBIDE

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	\$72.80	.1770 - .2040	\$126.15	\$99.40	\$90.45	\$86.25	\$81.65	\$77.95
.2188	7/32	1/4	3/32	4	1*	2 1/4	343007	344007	72.80	.2041 - .2210	126.15	99.40	90.45	86.25	81.65	77.95
.2344	15/64	1/4	3/32	4	1*	2 1/4	34302344	34402344	72.80	.2211 - .2380	126.15	99.40	90.45	86.25	81.65	77.95
.2500	1/4	1/4	3/32	4	1*	2 1/4	343008	344008	72.80	.2381 - .2530	126.15	99.40	90.45	86.25	81.65	77.95
.2812	9/32	3/8	1/8	4	1*	2 1/4	343009	344009	72.80	.2531 - .2840	126.15	99.40	90.45	86.25	81.65	77.95
.3125	5/16	3/8	1/8	4	1	2 1/4	343010	344010	84.60	.2841 - .3150	137.95	111.15	102.35	98.05	93.35	89.85
.3438	11/32	3/8	1/8	4	1 1/4	2 1/2	343011	344011	85.25	.3151 - .3470	138.75	112.05	103.00	98.90	94.15	90.60
.3750	3/8	3/8	1/8	4	1 1/4	2 1/2	343012	344012	92.50	.3471 - .3780	146.00	119.25	110.30	105.95	101.35	97.75
.4062	13/32	1/2	3/16	4	1 1/4	2 1/2	343013	344013	93.90	.3781 - .4090	147.40	120.40	111.60	107.30	102.70	99.20
.4375	7/16	1/2	3/16	4	1 1/4	2 1/2	343014	344014	111.05	.4091 - .4410	164.65	137.80	128.75	124.65	120.05	116.50
.4688	15/32	1/2	3/16	4	1 1/4	2 1/2	343015	344015	111.05	.4411 - .4720	164.65	137.80	128.75	124.65	120.05	116.50
.5000	1/2	1/2	3/16	4	1 1/4	2 1/2	343016	344016	121.65	.4721 - .5030	176.60	149.10	139.90	135.50	130.70	127.10
.5312	17/32	5/8	1/4	6	1 1/2	3	343017	344017	121.65	.5031 - .5340	176.60	149.10	139.90	135.50	130.70	127.10
.5625	9/16	5/8	1/4	6	1 1/2	3	343018	344018	128.25	.5341 - .5660	182.95	155.50	146.25	141.95	137.20	133.45
.5938	19/32	5/8	1/4	6	1 1/2	3	343019	344019	128.25	.5661 - .5970	182.95	155.50	146.25	141.95	137.20	133.45
.6250	5/8	5/8	1/4	6	1 1/2	3	343020	344020	131.60	.5971 - .6280	186.55	159.05	149.75	145.35	140.65	136.95
.6562	21/32	5/8	1/4	6	1 1/2	3	343021	344021	131.60	.6281 - .6590	186.55	159.05	149.75	145.35	140.65	136.95
.6875	11/16	5/8	1/4	6	1 1/2	3	343022	344022	137.75	.6591 - .6910	192.55	165.10	156.00	151.45	146.80	143.10
.7188	23/32	3/4	5/16	6	1 1/2	3	343023	344023	137.75	.6911 - .7220	192.55	165.10	156.00	151.45	146.80	143.10
.7500	3/4	3/4	5/16	6	1 1/2	3	343024	344024	141.35	.7221 - .7530	196.00	168.65	159.35	155.00	150.30	146.65
.7812	25/32	3/4	5/16	6	1 1/2	3	343025	344025	141.35	.7531 - .7840	196.00	168.65	159.35	155.00	150.30	146.65
.8125	13/16	3/4	5/16	6	1 1/2	3	343026	344026	153.40	.7841 - .8160	208.25	180.90	171.55	167.25	162.50	158.90
.8438	27/32	3/4	5/16	6	1 1/2	3	343027	344027	153.40	.8161 - .8470	208.25	180.90	171.55	167.25	162.50	158.90
.8750	7/8	3/4	5/16	6	1 1/2	3	343028	344028	167.65	.8471 - .8780	224.65	195.90	186.40	181.90	177.05	173.15
.9062	29/32	3/4	5/16	6	1 1/2	3	343029	344029	167.65	.8781 - .9090	224.65	195.90	186.40	181.90	177.05	173.15
.9375	15/16	3/4	5/16	6	1 1/2	3	343030	344030	184.55	.9091 - .9410	241.50	213.10	203.50	198.90	194.10	190.25
.9688	31/32	3/4	5/16	8	1 1/2	3	343031	344031	184.55	.9411 - .9720	241.50	213.10	203.50	198.90	194.10	190.25
1.0000	1	3/4	5/16	8	1 1/2	3	343032	344032	193.60	.9721 - 1.0030	250.65	222.20	212.55	208.05	203.05	199.30
1.0625	1 1/16	3/4	5/16	8	1 1/2	3	343034	344034	193.60	1.0031 - 1.0660	250.65	222.20	212.55	208.05	203.05	199.30
1.1250	1 1/8	3/4	5/16	8	1 1/2	3	343036	344036	226.75	1.0661 - 1.1280	283.70	255.00	245.50	241.05	236.10	232.25
1.1875	1 3/16	3/4	5/16	8	1 1/2	3	343038	344038	236.30	1.1281 - 1.1905	293.40	264.85	255.15	250.65	245.80	241.90
1.2500	1 1/4	3/4	5/16	8	1 1/2	3	343040	344040	276.85	1.1906 - 1.2530	333.90	305.35	295.85	291.20	286.45	282.55
1.3125	1 5/16	3/4	5/16	8	1 1/2	3	343042	344042	276.85	1.2531 - 1.3155	333.90	305.35	295.85	291.20	286.45	282.55
1.3750	1 3/8	3/4	5/16	8	1 1/2	3	343044	344044	280.85	1.3156 - 1.3780	337.80	309.30	299.85	295.20	290.50	286.60
1.4375	1 7/16	3/4	5/16	8	1 1/2	3	343046	344046	327.35	1.3781 - 1.4405	384.50	355.80	346.40	341.70	336.90	333.10
1.5000	1 1/2	3/4	5/16	8	1 1/2	3	343048	344048	393.20	1.4406 - 1.5030	450.15	421.75	412.15	407.60	402.55	398.75

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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	\$90.45	4.494 - 5.182	\$130.60	\$103.95	\$95.05	\$90.70	\$86.25	\$82.50	\$77.40
5.0	.1969	1/4	3/32	4	1*	2 1/4	3430050	3440050	90.45	-	-	-	-	-	-	-	-
5.5	.2165	1/4	3/32	4	1*	2 1/4	3430055	3440055	90.45	5.183 - 5.613	130.60	103.95	95.05	90.70	86.25	82.50	77.40
6.0	.2362	1/4	3/32	4	1*	2 1/4	3430060	3440060	90.45	5.614 - 6.045	130.60	103.95	95.05	90.70	86.25	82.50	77.40
-	-	1/4	3/32	4	1*	2 1/4	3430063	3440063	-	6.046 - 6.426	130.60	103.95	95.05	90.70	86.25	82.50	77.40
6.5	.2559	3/8	1/8	4	1*	2 1/4	3430065	3440065	90.45	6.427 - 7.214	130.60	103.95	95.05	90.70	86.25	82.50	77.40
7.0	.2756	3/8	1/8	4	1*	2 1/4	3430070	3440070	90.45	-	-	-	-	-	-	-	-
7.5	.2953	3/8	1/8	4	1	2 1/4	3430075	3440075	102.35	7.215 - 8.001	142.50	115.80	106.85	102.50	98.05	94.20	89.15
8.0	.3150	3/8	1/8	4	1	2 1/4	3430080	3440080	102.35	-	-	-	-	-	-	-	-
8.5	.3346	3/8	1/8	4	1 1/4	2 1/2	3430085	3440085	103.00	8.002 - 8.814	143.25	116.65	107.60	103.25	98.90	95.05	89.90
9.0	.3543	3/8	1/8	4	1 1/4	2 1/2	3430090	3440090	110.30	8.815 - 9.601	150.45	123.85	114.90	110.55	105.95	102.35	97.20
9.5	.3740	3/8	1/8	4	1 1/4	2 1/2	3430095	3440095	110.30	-	-	-	-	-	-	-	-
10.0	.3937	1/2	3/16	4	1 1/4	2 1/2	3430100	3440100	111.60	9.602 - 10.389	151.85	125.15	116.05	111.90	107.30	103.65	98.35
10.5	.4134	1/2	3/16	4	1 1/4	2 1/2	3430105	3440105	128.75	10.390 - 11.201	169.25	142.35	133.35	129.10	124.65	120.95	115.75
11.0	.4331	1/2	3/16	4	1 1/4	2 1/2	3430110	3440110	128.75	-	-	-	-	-	-	-	-
11.5	.4528	1/2	3/16	4	1 1/4	2 1/2	3430115	3440115	128.75	11.202 - 11.989	169.25	142.35	133.35	129.10	124.65	120.95	115.75
12.0	.4724	1/2	3/16	4	1 1/4	2 1/2	3430120	3440120	139.90	11.990 - 12.776	181.10	153.60	144.55	140.05	135.50	131.60	126.40
12.5	.4921	1/2	3/16	4	1 1/4	2 1/2	3430125	3440125	139.90	-	-	-	-	-	-	-	-
13.0	.5118	5/8	1/4	6	1 1/2	3	3430130	3440130	139.90	12.777 - 13.564	181.10	153.60	144.55	140.05	135.50	131.60	126.40
13.5	.5315	5/8	1/4	6	1 1/2	3	3430135	3440135	139.90	-	-	-	-	-	-	-	-
14.0	.5512	5/8	1/4	6	1 1/2	3	3430140	3440140	146.25	13.565 - 14.376	187.65	160.30	151.10	146.65	141.95	138.05	132.85
14.5	.5709	5/8	1/4	6	1 1/2	3	3430145	3440145	146.25	14.377 - 15.164	187.65	160.30	151.10	146.65	141.95	138.05	132.85
15.0	.5906	5/8	1/4	6	1 1/2	3	3430150	3440150	146.25	-	-	-	-	-	-	-	-
15.5	.6102	5/8	1/4	6	1 1/2	3	3430155	3440155	149.75	15.165 - 15.951	191.15	163.80	154.55	150.00	145.35	141.65	136.35
16.0	.6299	5/8	1/4	6	1 1/2	3	3430160	3440160	149.75	15.952 - 16.739	191.15	163.80	154.55	150.00	145.35	141.65	136.35
16.5	.6496	5/8	1/4	6	1 1/2	3	3430165	3440165	149.75	-	-	-	-	-	-	-	-
17.0	.6693	5/8	1/4	6	1 1/2	3	3430170	3440170	156.00	16.740 - 17.551	197.20	169.80	160.60	156.15	151.45	147.70	142.35
17.5	.6890	5/8	1/4	6	1 1/2	3	3430175	3440175	156.00	-	-	-	-	-	-	-	-
18.0	.7087	3/4	5/16	6	1 1/2	3	3430180	3440180	156.00	17.552 - 18.339	197.20	169.80	160.60	156.15	151.45	147.70	142.35
18.5	.7283	3/4	5/16	6	1 1/2	3	3430185	3440185	159.35	18.340 - 19.126	200.65	173.15	164.10	159.60	155.00	151.15	145.95
19.0	.7480	3/4	5/16	6	1 1/2	3	3430190	3440190	159.35	-	-	-	-	-	-	-	-
19.5	.7677	3/4	5/16	6	1 1/2	3	3430195	3440195	159.35	19.127 - 19.914	200.65	173.15	164.10	159.60	155.00	151.15	145.95
20.0	.7874	3/4	5/16	6	1 1/2	3	3430200	3440200	171.55	19.915 - 20.726	213.00	185.55	176.35	171.95	167.25	163.40	158.15
20.5	.8071	3/4	5/16	6	1 1/2	3	3430205	3440205	171.55	-	-	-	-	-	-	-	-
21.0	.8268	3/4	5/16	6	1 1/2	3	3430210	3440210	171.55	20.727 - 21.514	213.00	185.55	176.35	171.95	167.25	163.40	158.15
21.5	.8465	3/4	5/16	6	1 1/2	3	3430215	3440215	171.55	-	-	-	-	-	-	-	-
22.0	.8661	3/4	5/16	6	1 1/2	3	3430220	3440220	179.75	21.515 - 22.301	221.05	193.60	184.35	179.95	175.30	171.45	166.25
22.5	.8858	3/4	5/16	6	1 1/2	3	3430225	3440225	186.40	22.302 - 23.089	229.35	200.90	191.40	186.65	181.90	178.05	172.55
23.0	.9055	3/4	5/16	6	1 1/2	3	3430230	3440230	186.40	-	-	-	-	-	-	-	-
23.5	.9252	3/4	5/16	6	1 1/2	3	3430235	3440235	203.50	23.090 - 23.901	246.35	217.90	208.40	203.75	198.90	194.90	189.55
24.0	.9449	3/4	5/16	8	1 1/2	3	3430240	3440240	203.50	23.902 - 24.689	246.35	217.90	208.40	203.75	198.90	194.90	189.55
24.5	.9646	3/4	5/16	8	1 1/2	3	3430245	3440245	203.50	-	-	-	-	-	-	-	-
25.0	.9843	3/4	5/16	8	1 1/2	3	3430250	3440250	212.55	24.690 - 25.476	255.55	226.95	217.55	212.95	208.05	204.10	198.70
25.5	1.0039	3/4	5/16	8	1 1/2	3	3430255	3440255	212.55	25.477 - 27.076	255.55	226.95	217.55	212.95	208.05	204.10	198.70
26.0	1.0236	3/4	5/16	8	1 1/2	3	3430260	3440260	212.55	-	-	-	-	-	-	-	-
27.0	1.0630	3/4	5/16	8	1 1/2	3	3430270	3440270	212.55	-	-	-	-	-	-	-	-
28.0	1.1024	3/4	5/16	8	1 1/2	3	3430280	3440280	245.50	27.077 - 28.651	288.50	260.05	250.40	245.80	241.05	237.10	231.65
29.0	1.1417	3/4	5/16	8	1 1/2	3	3430290	3440290	255.15	28.652 - 30.239	288.50	260.05	250.40	245.80	241.05	237.10	231.65
30.0	1.1811	3/4	5/16	8	1 1/2	3	3430300	3440300	255.15	-	-	-	-	-	-	-	-
31.0	1.2205	3/4	5/16	8	1 1/2	3	3430310	3440310	295.85	30.240 - 31.826	338.70	310.20	300.75	296.00	291.20	287.30	281.85
32.0	1.2598	3/4	5/16	8	1 1/2	3	3430320	3440320	295.85	31.827 - 33.414	338.70	310.20	300.75	296.00	291.20	287.30	281.85
33.0	1.2992	3/4	5/16	8	1 1/2	3	3430330	3440330	295.85	-	-	-	-	-	-	-	-
34.0	1.3386	3/4	5/16	8	1 1/2	3	3430340	3440340	299.85	33.415 - 35.001	342.65	314.20	304.60	300.00	295.20	291.20	285.75
35.0	1.3780	3/4	5/16	8	1 1/2	3	3430350	3440350	299.85	-	-	-	-	-	-	-	-
36.0	1.4173	3/4	5/16	8	1 1/2	3	3430360	3440360	346.40	35.002 - 36.589	389.15	360.80	351.20	346.55	341.70	337.70	332.30
37.0	1.4567	3/4	5/16	8	1 1/2	3	3430370	3440370	412.15	36.590 - 38.176	455.05	426.65	417.00	412.45	407.60	403.55	398.10
38.0	1.4961	3/4	5/16	8	1 1/2	3	3430380	3440380	412.15	-	-	-	-	-	-	-	-

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*1/2" carbide length.

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CARBIDE TIPPED NAS 897 CHUCKING REAMERS

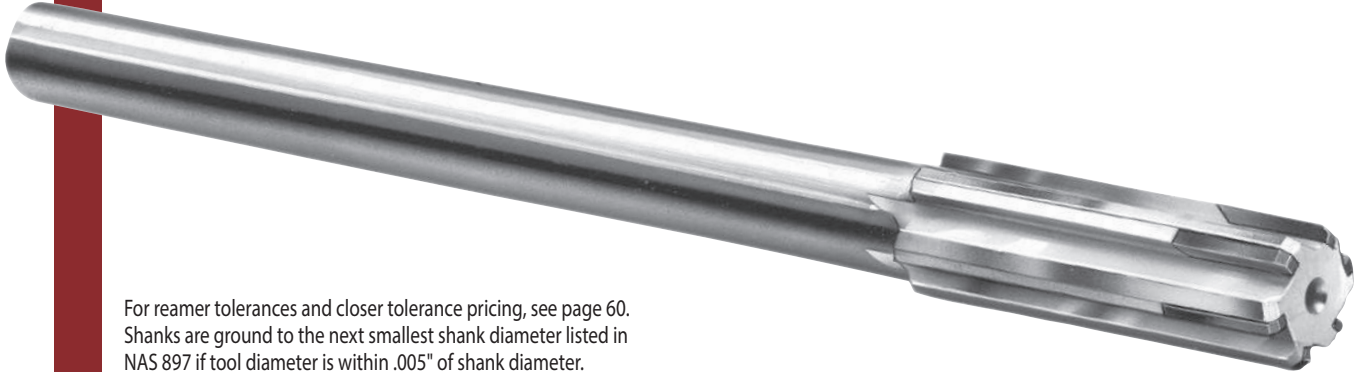
TYPE 3407 - STRAIGHT SHANK - STRAIGHT FLUTES - FOR NON-FERROUS

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	\$73.05	.1560 - .1769	\$126.55	\$99.55	\$90.70	\$86.45	\$81.80	\$78.20
.1875	3/16	.1805	4	1 1/8	1/2	4 1/2	340706	340806	340906	67.00	.1770 - .2040	119.05	93.00	84.25	80.00	75.60	72.05
.2188	7/32	.2075	4	1 1/4	1/2	5	340707	340807	340907	67.00	.2041 - .2210	119.05	93.00	84.25	80.00	75.60	72.05
.2344	15/64	.2265	4	1 1/2	1/2	6	34072344	34082344	34092344	71.15	.2211 - .2380	123.10	97.05	88.20	84.15	79.55	76.10
.2500	1/4	.2405	4	1 1/2	1/2	6	340708	340808	340908	67.40	.2381 - .2530	119.40	93.35	84.70	80.50	75.95	72.50
.2812	9/32	.2485	4	1 1/2	1/2	6	340709	340809	340909	68.70	.2531 - .2840	120.90	94.75	86.10	81.80	77.40	73.75
.3125	5/16	.2792	4	1 1/2	1/2	6	340710	340810	340910	68.70	.2841 - .3150	120.90	94.75	86.10	81.80	77.40	73.75
.3125	5/16	.2792	6	1 1/2	1/2	6	340790	340890	340990	75.60	.2841 - .3150	127.55	101.50	92.75	88.70	84.25	80.70
.3438	11/32	.2792	4	1 1/2	5/8	6	340711	340811	340911	71.35	.3151 - .3470	123.35	97.35	88.60	84.45	79.95	76.50
.3438	11/32	.2792	6	1 1/2	5/8	6	340791	340891	340991	78.35	.3151 - .3470	130.40	104.30	95.60	91.45	86.90	83.45
.3750	3/8	.3105	4	1 3/4	5/8	7	340712	340812	340912	65.45	.3471 - .3780	113.15	89.20	81.35	77.50	73.35	70.15
.3750	3/8	.3105	6	1 3/4	5/8	7	340792	340892	340992	71.80	.3471 - .3780	119.65	95.65	87.75	83.95	79.80	76.55
.4062	13/32	.3105	4	1 3/4	5/8	7	340713	340813	340913	74.75	.3781 - .4090	126.85	100.70	92.05	87.85	83.25	79.85
.4062	13/32	.3105	6	1 3/4	5/8	7	340793	340893	340993	79.65	.3781 - .4090	131.75	105.60	97.05	92.75	88.30	84.85
.4375	7/16	.3730	6	1 3/4	5/8	7	340714	340814	340914	79.65	.4091 - .4410	131.75	105.60	97.05	92.75	88.30	84.85
.4688	15/32	.3730	6	1 3/4	5/8	7	340715	340815	340915	80.85	.4411 - .4720	132.90	106.85	98.10	93.95	89.60	86.10
.5000	1/2	.4355	6	2	5/8	8	340716	340816	340916	95.60	.4721 - .5030	153.00	124.15	114.60	110.05	105.15	101.25
.5312	17/32	.4355	6	2	5/8	8	340717	340817	340917	104.10	.5031 - .5340	161.35	132.60	123.10	118.40	113.65	109.70
.5625	9/16	.4355	6	2	5/8	8	340718	340818	340918	104.10	.5341 - .5660	161.35	132.60	123.10	118.40	113.65	109.70
.5938	19/32	.4355	6	2	5/8	8	340719	340819	340919	108.40	.5661 - .5970	165.65	136.90	127.25	122.70	117.80	113.90
.6250	5/8	.5615	6	2 1/4	5/8	9	340720	340820	340920	108.40	.5971 - .6280	165.65	136.90	127.25	122.70	117.80	113.90
.6562	21/32	.5615	6	2 1/4	5/8	9	340721	340821	340921	110.15	.6281 - .6590	167.55	138.75	129.10	124.65	119.65	115.80
.6875	11/16	.5615	6	2 1/4	5/8	9	340722	340822	340922	110.15	.6591 - .6910	167.55	138.75	129.10	124.65	119.65	115.80
.7188	23/32	.5615	6	2 1/4	5/8	9	340723	340823	340923	115.45	.6911 - .7220	172.70	143.85	134.35	129.70	124.85	120.95
.7500	3/4	.6245	6	2 1/2	3/4	9 1/2	340724	340824	340924	115.45	.7221 - .7530	172.70	143.85	134.35	129.70	124.85	120.95
.7812	25/32	.6245	6	2 1/2	3/4	9 1/2	340725	340825	340925	119.05	.7531 - .7840	176.35	147.70	138.05	133.45	128.55	124.80
.8125	13/16	.6245	6	2 1/2	3/4	9 1/2	340726	340826	340926	119.05	.7841 - .8160	176.35	147.70	138.05	133.45	128.55	124.80
.8438	27/32	.6245	6	2 1/2	3/4	9 1/2	340727	340827	340927	123.85	.8161 - .8470	181.10	152.45	142.95	138.35	133.35	129.55
.8750	7/8	.7495	6	2 5/8	3/4	10	340728	340828	340928	128.55	.8471 - .8780	188.00	158.20	148.15	143.55	138.50	134.45
.9062	29/32	.7495	6	2 5/8	3/4	10	340729	340829	340929	149.70	.8781 - .9090	209.20	179.35	169.45	164.70	159.50	155.45
.9375	15/16	.7495	8	2 5/8	3/4	10	340730	340830	340930	149.70	.9091 - .9410	209.20	179.35	169.45	164.70	159.50	155.45
.9688	31/32	.7495	8	2 5/8	3/4	10	340731	340831	340931	156.85	.9411 - .9720	216.25	186.40	176.50	171.60	166.55	162.50
1.0000	1	.8745	8	2 3/4	3/4	10 1/2	340732	340832	340932	156.85	.9721 - 1.0030	216.25	186.40	176.50	171.60	166.55	162.50
1.0625	1 1/16	.8745	8	2 3/4	3/4	10 1/2	340734	340834	340934	162.35	1.0031 - 1.0660	219.30	190.85	181.20	176.70	171.70	167.95
1.1250	1 1/8	.8745	8	2 7/8	7/8	11	340736	340836	340936	175.55	1.0661 - 1.1280	232.50	203.90	194.45	189.80	184.95	181.10
1.1875	1 3/16	.9995	8	2 7/8	7/8	11	340738	340838	340938	184.40	1.1281 - 1.1905	241.45	213.00	203.45	198.85	193.90	190.15
1.2500	1 1/4	.9995	8	3	7/8	11 1/2	340740	340840	340940	194.90	1.1906 - 1.2530	252.05	223.50	213.85	209.35	204.50	200.60
1.3125	1 5/16	.9995	8	3	7/8	11 1/2	340742	340842	340942	205.20	1.2531 - 1.3155	262.20	233.80	224.10	219.60	214.60	210.80
1.3750	1 3/8	.9995	8	3 1/4	7/8	12	340744	340844	340944	217.70	1.3156 - 1.3780	274.80	246.20	236.55	232.10	227.05	223.30
1.4375	1 7/16	.9995	8	3 1/4	7/8	12	340746	340846	340946	242.60	1.3781 - 1.4405	299.80	271.05	261.60	257.10	252.10	248.35
1.5000	1 1/2	1.2495	8	3 1/2	7/8	12 1/2	340748	340848	340948	256.45	1.4406 - 1.5030	313.50	285.00	275.35	270.90	265.90	262.05

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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	\$90.70	3.962-4.493	\$131.00	\$104.25	\$95.35	\$90.90	\$86.45	\$82.80	\$77.55
4.5	.1772	.1704	4	1 ⅛	½	4 ½	3407045	3408045	3409045	84.25	4.494-4.696	123.35	97.40	88.70	84.45	80.00	76.50	71.45
5.0	.1969	.1805	4	1 ⅛	½	4 ½	3407050	3408050	3409050	84.25	4.697-5.182	123.35	97.40	88.70	84.45	80.00	76.50	71.45
5.5	.2165	.2075	4	1 ¼	½	5	3407055	3408055	3409055	84.25	5.183-5.613	123.35	97.40	88.70	84.45	80.00	76.50	71.45
6.0	.2362	.2265	4	1 ½	½	6	3407060	3408060	3409060	88.20	5.614-6.045	127.40	101.40	92.65	88.40	84.15	80.50	75.50
-	-	.2405	4	1 ½	½	6	3407063	3408063	3409063	-	6.046-6.426	123.85	97.90	89.05	84.85	80.50	76.90	71.80
6.5	.2559	.2485	4	1 ½	½	6	3407065	3408065	3409065	86.10	6.427-7.214	125.25	99.25	90.45	86.25	81.80	78.20	73.30
7.0	.2756	.2485	4	1 ½	½	6	3407070	3408070	3409070	86.10	-	-	-	-	-	-	-	-
7.5	.2953	.2792	4	1 ½	½	6	3407075	3408075	3409075	86.10	7.215-8.001	125.25	99.25	90.45	86.25	81.80	78.20	73.30
7.5	.2953	.2792	6	1 ½	½	6	3407078	3408078	3409078	92.75	7.215-8.001	132.05	106.15	97.35	93.05	88.70	85.00	80.00
8.0	.3150	.2792	4	1 ½	½	6	3407080	3408080	3409080	86.10	-	-	-	-	-	-	-	-
8.0	.3150	.2792	6	1 ½	½	6	3407083	3408083	3409083	92.75	-	-	-	-	-	-	-	-
8.5	.3346	.2792	4	1 ½	⅝	6	3407085	3408085	3409085	88.60	8.002-8.814	127.60	101.80	93.05	88.85	84.45	80.80	75.80
8.5	.3346	.2792	6	1 ½	⅝	6	3407088	3408088	3409088	95.60	8.002-8.814	134.75	108.75	100.05	95.90	91.45	87.85	82.85
9.0	.3543	.3105	4	1 ¾	⅝	7	3407090	3408090	3409090	81.35	8.815-9.601	117.20	93.35	85.25	81.50	77.50	74.20	69.60
9.0	.3543	.3105	6	1 ¾	⅝	7	3407093	3408093	3409093	87.75	8.815-9.601	123.70	99.70	91.85	87.90	83.95	80.55	75.95
9.5	.3740	.3105	4	1 ¾	⅝	7	3407095	3408095	3409095	81.35	-	-	-	-	-	-	-	-
9.5	.3740	.3105	6	1 ¾	⅝	7	3407098	3408098	3409098	87.75	-	-	-	-	-	-	-	-
10.0	.3937	.3105	4	1 ¾	⅝	7	3407100	3408100	3409100	92.05	9.602-10.389	131.20	105.25	96.45	92.20	87.85	84.25	79.25
10.0	.3937	.3105	6	1 ¾	⅝	7	3407103	3408103	3409103	97.05	9.602-10.389	136.20	110.15	101.40	97.20	92.75	89.15	84.25
10.5	.4134	.3730	6	1 ¾	⅝	7	3407105	3408105	3409105	97.05	10.390-11.201	136.20	110.15	101.40	97.20	92.75	89.15	84.25
11.0	.4331	.3730	6	1 ¾	⅝	7	3407110	3408110	3409110	97.05	-	-	-	-	-	-	-	-
11.5	.4528	.3730	6	1 ¾	⅝	7	3407115	3408115	3409115	98.10	11.202-11.989	137.30	111.30	102.65	98.25	93.95	90.30	85.25
12.0	.4724	.4355	6	2	⅝	8	3407120	3408120	3409120	114.60	11.990-12.776	157.75	129.10	119.55	114.90	110.05	106.15	100.65
12.5	.4921	.4355	6	2	⅝	8	3407125	3408125	3409125	114.60	-	-	-	-	-	-	-	-
13.0	.5118	.4355	6	2	⅝	8	3407130	3408130	3409130	123.10	12.777-13.564	166.25	137.65	127.95	123.25	118.40	114.45	109.00
13.5	.5315	.4355	6	2	⅝	8	3407135	3408135	3409135	123.10	-	-	-	-	-	-	-	-
14.0	.5512	.4355	6	2	⅝	8	3407140	3408140	3409140	123.10	13.565-14.376	166.25	137.65	127.95	123.25	118.40	114.45	109.00
14.5	.5709	.4355	6	2	⅝	8	3407145	3408145	3409145	127.25	14.377-15.164	170.45	141.80	132.20	127.45	122.70	118.75	113.15
15.0	.5906	.4355	6	2	⅝	8	3407150	3408150	3409150	127.25	-	-	-	-	-	-	-	-
15.5	.6102	.5615	6	2 ¼	⅝	9	3407155	3408155	3409155	127.25	15.165-15.951	170.45	141.80	132.20	127.45	122.70	118.75	113.15
16.0	.6299	.5615	6	2 ¼	⅝	9	3407160	3408160	3409160	129.10	15.952-16.739	172.40	143.65	134.15	129.30	124.65	120.50	115.05
16.5	.6496	.5615	6	2 ¼	⅝	9	3407165	3408165	3409165	129.10	-	-	-	-	-	-	-	-
17.0	.6693	.5615	6	2 ¼	⅝	9	3407170	3408170	3409170	129.10	16.740-17.551	172.40	143.65	134.15	129.30	124.65	120.50	115.05
17.5	.6890	.5615	6	2 ¼	⅝	9	3407175	3408175	3409175	129.10	-	-	-	-	-	-	-	-
18.0	.7087	.5615	6	2 ¼	⅝	9	3407180	3408180	3409180	134.35	17.552-18.339	177.35	148.85	139.35	134.60	129.70	125.80	120.20
19.0	.7480	.6245	6	2 ½	¾	9 ½	3407190	3408190	3409190	134.35	18.340-19.126	177.35	148.85	139.35	134.60	129.70	125.80	120.20
19.5	.7677	.6245	6	2 ½	¾	9 ½	3407195	3408195	3409195	138.05	19.127-19.914	181.10	152.55	143.05	138.35	133.45	129.55	124.00
20.0	.7874	.6245	6	2 ½	¾	9 ½	3407200	3408200	3409200	138.05	19.915-20.726	181.10	152.55	143.05	138.35	133.45	129.55	124.00
21.0	.8268	.6245	6	2 ½	¾	9 ½	3407210	3408210	3409210	142.95	20.727-21.514	185.95	157.45	147.80	143.10	138.35	134.35	128.75
22.0	.8661	.7495	6	2 ⅝	¾	10	3407220	3408220	3409220	142.95	21.515-22.301	185.95	157.45	147.80	143.10	138.35	134.35	128.75
23.0	.9055	.7495	6	2 ⅝	¾	10	3407230	3408230	3409230	169.45	22.302-23.089	214.10	184.40	174.55	169.65	164.70	160.50	154.90
23.5	.9252	.7495	8	2 ⅝	¾	10	3407235	3408235	3409235	169.45	23.090-23.901	214.10	184.40	174.55	169.65	164.70	160.50	154.90
24.0	.9449	.7495	8	2 ⅝	¾	10	3407240	3408240	3409240	176.50	23.902-24.689	221.20	191.55	181.65	176.75	171.60	167.65	161.90
25.0	.9843	.8745	8	2 ¾	¾	10 ½	3407250	3408250	3409250	176.50	24.690-25.476	221.20	191.55	181.65	176.75	171.60	167.65	161.90
26.0	1.0236	.8745	8	2 ¾	¾	10 ½	3407260	3408260	3409260	181.20	25.477-27.076	224.10	195.70	186.20	181.45	176.70	172.70	167.25
27.0	1.0630	.8745	8	2 ¾	¾	10 ½	3407270	3408270	3409270	181.20	-	-	-	-	-	-	-	-
28.0	1.1024	.8745	8	2 ⅞	⅞	11	3407280	3408280	3409280	194.45	27.077-28.651	237.25	208.85	199.30	194.60	189.80	185.90	180.35
29.0	1.1417	.9995	8	2 ⅞	⅞	11	3407290	3408290	3409290	203.45	28.652-30.239	246.30	217.75	208.20	203.60	198.85	194.85	189.50
30.0	1.1811	.9995	8	2 ⅞	⅞	11	3407300	3408300	3409300	203.45	-	-	-	-	-	-	-	-
31.0	1.2205	.9995	8	3	⅞	11 ½	3407310	3408310	3409310	213.85	30.240-31.826	256.60	228.35	218.90	214.10	209.35	205.25	199.85
32.0	1.2598	.9995	8	3	⅞	11 ½	3407320	3408320	3409320	224.10	31.827-33.414	267.05	238.45	229.05	224.35	219.60	215.60	210.10
33.0	1.2992	.9995	8	3	⅞	11 ½	3407330	3408330	3409330	224.10	-	-	-	-	-	-	-	-
34.0	1.3386	.9995	8	3 ¼	⅞	12	3407340	3408340	3409340	236.55	33.415-35.001	279.55	251.10	241.45	236.95	232.10	228.10	222.60
35.0	1.3780	.9995	8	3 ¼	⅞	12	3407350	3408350	3409350	236.55	-	-	-	-	-	-	-	-
36.0	1.4173	.9995	8	3 ¼	⅞	12	3407360	3408360	3409360	261.60	35.002-36.589	304.40	276.00	266.50	261.75	257.10	253.10	247.50
37.0	1.4567	1.2495	8	3 ½	⅞	12 ½	3407370	3408370	3409370	275.35	36.590-38.176	318.40	289.80	280.40	275.70	270.90	266.95	261.45

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	\$80.00	.1770 - .2040	\$133.50	\$106.75	\$97.75	\$93.50	\$89.00	\$85.25
.2188	7/32	.2075	4	1 1/4	5	345707	345807	345907	80.00	.2041 - .2210	133.50	106.75	97.75	93.50	89.00	85.25
.2344	15/64	.2265	4	1 1/2	6	34572344	34582344	34592344	80.00	.2211 - .2380	133.50	106.75	97.75	93.50	89.00	85.25
.2500	1/4	.2405	4	1 1/2	6	345708	345808	345908	80.00	.2381 - .2530	133.50	106.75	97.75	93.50	89.00	85.25
.2812	9/32	.2485	4	1 1/2	6	345709	345809	345909	81.80	.2531 - .2840	135.20	108.55	99.50	95.35	90.70	87.15
.3125	5/16	.2792	4	1 1/2	6	345710	345810	345910	81.80	.2841 - .3150	135.20	108.55	99.50	95.35	90.70	87.15
.3438	11/32	.2792	4	1 1/2	6	345711	345811	345911	84.75	.3151 - .3470	138.35	111.35	102.50	98.20	93.75	90.05
.3750	3/8	.3105	4	1 3/4	7	345712	345812	345912	84.75	.3471 - .3780	138.35	111.35	102.50	98.20	93.75	90.05
.4062	13/32	.3105	4	1 3/4	7	345713	345813	345913	89.00	.3781 - .4090	142.35	115.65	106.70	102.40	97.75	94.15
.4375	7/16	.3730	6	1 3/4	7	345714	345814	345914	96.25	.4091 - .4410	149.70	123.00	114.00	109.70	105.15	101.40
.4688	15/32	.3730	6	1 3/4	7	345715	345815	345915	103.95	.4411 - .4720	157.60	130.60	121.80	117.50	112.85	109.30
.5000	1/2	.4355	6	2	8	345716	345816	345916	111.35	.4721 - .5030	168.80	140.05	130.45	125.85	120.95	117.10
.5312	17/32	.4355	6	2	8	345717	345817	345917	114.60	.5031 - .5340	171.95	143.20	133.50	129.00	124.10	120.20
.5625	9/16	.4355	6	2	8	345718	345818	345918	114.60	.5341 - .5660	171.95	143.20	133.50	129.00	124.10	120.20
.5938	19/32	.4355	6	2	8	345719	345819	345919	118.95	.5661 - .5970	176.30	147.65	137.90	133.35	128.45	124.65
.6250	5/8	.5615	6	2 1/4	9	345720	345820	345920	118.95	.5971 - .6280	176.30	147.65	137.90	133.35	128.45	124.65
.6562	21/32	.5615	6	2 1/4	9	345721	345821	345921	121.20	.6281 - .6590	178.60	149.75	140.10	135.60	130.60	126.85
.6875	11/16	.5615	6	2 1/4	9	345722	345822	345922	121.20	.6591 - .6910	178.60	149.75	140.10	135.60	130.60	126.85
.7188	23/32	.5615	6	2 1/4	9	345723	345823	345923	126.70	.6911 - .7220	184.05	155.20	145.80	141.20	136.20	132.30
.7500	3/4	.6245	6	2 1/2	9 1/2	345724	345824	345924	126.70	.7221 - .7530	184.05	155.20	145.80	141.20	136.20	132.30
.7812	25/32	.6245	6	2 1/2	9 1/2	345725	345825	345925	131.15	.7531 - .7840	188.35	159.60	150.00	145.35	140.50	136.60
.8125	13/16	.6245	6	2 1/2	9 1/2	345726	345826	345926	131.15	.7841 - .8160	188.35	159.60	150.00	145.35	140.50	136.60
.8438	27/32	.6245	6	2 1/2	9 1/2	345727	345827	345927	136.35	.8161 - .8470	193.55	164.80	155.20	150.75	145.85	141.90
.8750	7/8	.7495	6	2 5/8	10	345728	345828	345928	141.55	.8471 - .8780	200.80	171.10	161.10	156.35	151.25	147.25
.9062	29/32	.7495	6	2 5/8	10	345729	345829	345929	164.70	.8781 - .9090	224.20	194.45	184.35	179.60	174.55	170.45
.9375	15/16	.7495	8	2 5/8	10	345730	345830	345930	164.70	.9091 - .9410	224.20	194.45	184.35	179.60	174.55	170.45
.9688	31/32	.7495	8	2 5/8	10	345731	345831	345931	172.60	.9411 - .9720	232.10	202.35	192.25	187.50	182.45	178.35
1.0000	1	.8745	8	2 3/4	10 1/2	345732	345832	345932	172.60	.9721 - 1.0030	232.10	202.35	192.25	187.50	182.45	178.35
1.0625	1 1/16	.8745	8	2 3/4	10 1/2	345734	345834	345934	178.45	1.0031 - 1.0660	235.45	206.80	197.35	192.75	187.85	184.10
1.1250	1 1/8	.8745	8	2 7/8	11	345736	345836	345936	193.30	1.0661 - 1.1280	250.25	221.65	212.10	207.65	202.75	198.85
1.1875	1 3/16	.9995	8	2 7/8	11	345738	345838	345938	202.05	1.1281 - 1.1905	259.10	230.55	221.00	216.55	211.55	207.70
1.2500	1 1/4	.9995	8	3	11 1/2	345740	345840	345940	218.30	1.1906 - 1.2530	275.35	246.95	237.25	232.80	227.90	223.95
1.3125	1 5/16	.9995	8	3	11 1/2	345742	345842	345942	224.45	1.2531 - 1.3155	281.45	252.95	243.30	238.85	233.95	230.05
1.3750	1 3/8	.9995	8	3 1/4	12	345744	345844	345944	239.40	1.3156 - 1.3780	296.35	267.80	258.30	253.80	248.75	245.05
1.4375	1 7/16	.9995	8	3 1/4	12	345746	345846	345946	259.30	1.3781 - 1.4405	316.25	287.65	278.10	273.50	268.75	264.85
1.5000	1 1/2	1.2495	8	3 1/2	12 1/2	345748	345848	345948	266.75	1.4406 - 1.5030	323.75	295.20	285.65	281.15	276.30	272.40
1.5625	1 5/8	1.2495	8	3 1/2	12 1/2	345750	345850	345950	419.05	1.5031 - 1.5660	476.15	447.65	438.05	433.45	428.55	424.65
1.6250	1 3/4	1.2495	8	3 1/2	13	345752	345852	345952	433.40	1.5661 - 1.6280	490.50	461.95	452.40	447.85	442.90	439.05
1.6875	1 7/8	1.2495	8	3 1/2	13	345754	345854	345954	475.85	1.6281 - 1.6910	532.95	504.50	494.85	490.35	485.35	481.50
1.7500	1 3/4	1.2495	10	3 1/2	13 1/2	345756	345856	345956	475.85	1.6911 - 1.7530	532.95	504.50	494.85	490.35	485.35	481.50
1.8125	1 13/16	1.4995	10	3 1/2	13 1/2	345758	345858	345958	486.95	1.7531 - 1.8160	544.05	515.55	505.95	501.45	496.40	492.65
1.8750	1 7/8	1.4995	10	3 1/2	14	345760	345860	345960	510.70	1.8161 - 1.8780	567.80	539.30	529.65	525.20	520.20	516.40
1.9375	1 15/16	1.4995	10	3 1/2	14	345762	345862	345962	541.40	1.8781 - 1.9410	598.50	569.95	560.40	555.85	550.90	547.15
2.0000	2	1.4995	12	3 1/2	14	345764	345864	345964	540.60	1.9411 - 2.0030	597.80	569.20	559.70	555.10	550.20	546.35
2.1250	2 1/8	1.4995	12	3 1/2	14 1/2	345768	345868	345968	1004.50	2.0031 - 2.1280	1061.60	1033.00	1023.45	1019.00	1013.95	1010.15
2.2500	2 1/4	1.7495	12	3 1/2	14 1/2	345772	345872	345972	1078.85	2.1281 - 2.2530	1135.95	1107.35	1097.85	1093.35	1088.35	1084.60
2.3750	2 3/8	1.7495	12	3 1/2	15	345776	345876	345976	1116.35	2.2531 - 2.3780	1173.45	1144.85	1135.25	1130.80	1125.85	1122.00
2.5000	2 1/2	1.7495	12	3 1/2	15	345780	345880	345980	1116.35	2.3781 - 2.5030	1173.45	1144.85	1135.25	1130.80	1125.85	1122.00

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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	\$97.75	4.494 - 4.696	\$137.95	\$111.30	\$102.40	\$98.05	\$93.50	\$89.85	\$84.70
5.0	.1969	.1805	4	1 1/8	4 1/2	3457050	3458050	3459050	97.75	4.697 - 5.182	137.95	111.30	102.40	98.05	93.50	89.85	84.70
5.5	.2165	.2075	4	1 1/4	5	3457055	3458055	3459055	97.75	5.183 - 5.613	137.95	111.30	102.40	98.05	93.50	89.85	84.70
6.0	.2362	.2265	4	1 1/2	6	3457060	3458060	3459060	97.75	5.614 - 6.045	137.95	111.30	102.40	98.05	93.50	89.85	84.70
-	-	.2405	4	1 1/2	6	3457063	3458063	3459063	-	6.046 - 6.426	137.95	111.30	102.40	98.05	93.50	89.85	84.70
6.5	.2559	.2485	4	1 1/2	6	3457065	3458065	3459065	99.50	6.427 - 7.214	139.80	113.00	104.10	99.65	95.35	91.50	86.45
7.0	.2756	.2485	4	1 1/2	6	3457070	3458070	3459070	99.50	-	-	-	-	-	-	-	-
7.5	.2953	.2792	4	1 1/2	6	3457075	3458075	3459075	99.50	7.215 - 8.001	139.80	113.00	104.10	99.65	95.35	91.50	86.45
8.0	.3150	.2792	4	1 1/2	6	3457080	3458080	3459080	99.50	-	-	-	-	-	-	-	-
8.5	.3346	.2792	4	1 1/2	6	3457085	3458085	3459085	102.50	8.002 - 8.814	142.90	115.95	107.00	102.70	98.20	94.50	89.30
9.0	.3543	.3105	4	1 3/4	7	3457090	3458090	3459090	102.50	8.815 - 9.601	142.90	115.95	107.00	102.70	98.20	94.50	89.30
9.5	.3740	.3105	4	1 3/4	7	3457095	3458095	3459095	102.50	-	-	-	-	-	-	-	-
10.0	.3937	.3105	4	1 3/4	7	3457100	3458100	3459100	106.70	9.602 - 10.389	146.85	120.20	111.15	106.85	102.40	98.65	93.50
10.5	.4134	.3730	6	1 3/4	7	3457105	3458105	3459105	114.00	10.390 - 11.201	154.20	127.45	118.60	114.15	109.70	105.95	100.95
11.0	.4331	.3730	6	1 3/4	7	3457110	3458110	3459110	114.00	-	-	-	-	-	-	-	-
11.5	.4528	.3730	6	1 3/4	7	3457115	3458115	3459115	121.80	11.202 - 11.989	162.10	135.20	126.40	121.95	117.50	113.85	108.60
12.0	.4724	.4355	6	2	8	3457120	3458120	3459120	130.45	11.990 - 12.776	173.60	144.95	135.35	130.60	125.85	121.85	116.50
12.5	.4921	.4355	6	2	8	3457125	3458125	3459125	130.45	-	-	-	-	-	-	-	-
13.0	.5118	.4355	6	2	8	3457130	3458130	3459130	133.50	12.777 - 13.564	176.85	148.10	138.50	133.75	129.00	125.00	119.55
13.5	.5315	.4355	6	2	8	3457135	3458135	3459135	133.50	-	-	-	-	-	-	-	-
14.0	.5512	.4355	6	2	8	3457140	3458140	3459140	133.50	13.565 - 14.376	176.85	148.10	138.50	133.75	129.00	125.00	119.55
14.5	.5709	.4355	6	2	8	3457145	3458145	3459145	137.90	14.377 - 15.164	181.05	152.45	142.95	138.30	133.35	129.30	123.85
15.0	.5906	.4355	6	2	8	3457150	3458150	3459150	137.90	-	-	-	-	-	-	-	-
15.5	.6102	.5615	6	2 1/4	9	3457155	3458155	3459155	137.90	15.165 - 15.951	181.05	152.45	142.95	138.30	133.35	129.30	123.85
16.0	.6299	.5615	6	2 1/4	9	3457160	3458160	3459160	140.10	15.952 - 16.739	183.35	154.75	145.10	140.40	135.60	131.60	126.00
16.5	.6496	.5615	6	2 1/4	9	3457165	3458165	3459165	140.10	-	-	-	-	-	-	-	-
17.0	.6693	.5615	6	2 1/4	9	3457170	3458170	3459170	140.10	16.740 - 17.551	183.35	154.75	145.10	140.40	135.60	131.60	126.00
17.5	.6890	.5615	6	2 1/4	9	3457175	3458175	3459175	140.10	-	-	-	-	-	-	-	-
18.0	.7087	.5615	6	2 1/4	9	3457180	3458180	3459180	145.80	17.552 - 18.339	188.70	160.10	150.70	145.95	141.20	137.05	131.60
18.5	.7283	.6245	6	2 1/2	9 1/2	3457185	3458185	3459185	145.80	18.340 - 19.126	188.70	160.10	150.70	145.95	141.20	137.05	131.60
19.0	.7480	.6245	6	2 1/2	9 1/2	3457190	3458190	3459190	145.80	-	-	-	-	-	-	-	-
19.5	.7677	.6245	6	2 1/2	9 1/2	3457195	3458195	3459195	150.00	19.127 - 19.914	193.25	164.55	154.90	150.25	145.35	141.50	136.00
20.0	.7874	.6245	6	2 1/2	9 1/2	3457200	3458200	3459200	150.00	19.915 - 20.726	193.25	164.55	154.90	150.25	145.35	141.50	136.00
20.5	.8071	.6245	6	2 1/2	9 1/2	3457205	3458205	3459205	150.00	-	-	-	-	-	-	-	-
21.0	.8268	.6245	6	2 1/2	9 1/2	3457210	3458210	3459210	155.20	20.727 - 21.514	198.50	169.80	160.10	155.45	150.75	146.70	141.35
21.5	.8465	.6245	6	2 1/2	9 1/2	3457215	3458215	3459215	155.20	-	-	-	-	-	-	-	-
22.0	.8661	.7495	6	2 5/8	10	3457220	3458220	3459220	155.20	21.515 - 22.301	198.50	169.80	160.10	155.45	150.75	146.70	141.35
22.5	.8858	.7495	6	2 5/8	10	3457225	3458225	3459225	184.35	22.302 - 23.089	229.10	199.45	189.55	184.55	179.60	175.55	169.70
23.0	.9055	.7495	6	2 5/8	10	3457230	3458230	3459230	184.35	-	-	-	-	-	-	-	-
23.5	.9252	.7495	8	2 5/8	10	3457235	3458235	3459235	184.35	23.090 - 23.901	229.10	199.45	189.55	184.55	179.60	175.55	169.70
24.0	.9449	.7495	8	2 5/8	10	3457240	3458240	3459240	192.25	23.902 - 24.689	237.10	207.40	197.45	192.55	187.50	183.40	177.60
24.5	.9646	.7495	8	2 5/8	10	3457245	3458245	3459245	192.25	-	-	-	-	-	-	-	-
25.0	.9843	.8745	8	2 3/4	10 1/2	3457250	3458250	3459250	192.25	24.690 - 25.476	237.10	207.40	197.45	192.55	187.50	183.40	177.60
25.5	1.0039	.8745	8	2 3/4	10 1/2	3457255	3458255	3459255	197.35	25.477 - 27.076	240.15	211.85	202.15	197.55	192.75	188.70	183.35
26.0	1.0236	.8745	8	2 3/4	10 1/2	3457260	3458260	3459260	197.35	-	-	-	-	-	-	-	-
27.0	1.0630	.8745	8	2 3/4	10 1/2	3457270	3458270	3459270	197.35	-	-	-	-	-	-	-	-
28.0	1.1024	.8745	8	2 7/8	11	3457280	3458280	3459280	212.10	27.077 - 28.651	254.95	226.65	217.00	212.25	207.65	203.60	198.05
29.0	1.1417	.9995	8	2 7/8	11	3457290	3458290	3459290	221.00	28.652 - 30.239	263.85	235.45	225.95	221.20	216.55	212.40	206.90
30.0	1.1811	.9995	8	2 7/8	11	3457300	3458300	3459300	221.00	-	-	-	-	-	-	-	-
31.0	1.2205	.9995	8	3	11 1/2	3457310	3458310	3459310	237.25	30.240 - 31.826	280.30	251.70	242.20	237.55	232.80	228.70	223.30
32.0	1.2598	.9995	8	3	11 1/2	3457320	3458320	3459320	243.30	31.827 - 33.414	286.20	257.75	248.35	243.60	238.85	234.85	229.35
33.0	1.2992	.9995	8	3	11 1/2	3457330	3458330	3459330	243.30	-	-	-	-	-	-	-	-
34.0	1.3386	.9995	8	3 1/4	12	3457340	3458340	3459340	258.30	33.415 - 35.001	301.15	272.70	263.20	258.55	253.80	249.75	244.30
35.0	1.3780	.9995	8	3 1/4	12	3457350	3458350	3459350	258.30	-	-	-	-	-	-	-	-
36.0	1.4173	.9995	8	3 1/4	12	3457360	3458360	3459360	278.10	35.002 - 36.589	320.95	292.55	282.90	278.30	273.50	269.50	264.15
37.0	1.4567	1.2495	8	3 1/2	12 1/2	3457370	3458370	3459370	285.65	36.590 - 38.176	328.60	300.10	290.65	285.85	281.15	277.10	271.70
38.0	1.4961	1.2495	8	3 1/2	12 1/2	3457380	3458380	3459380	285.65	-	-	-	-	-	-	-	-

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	\$77.20	.2381 - .2530	\$129.15	\$103.15	\$94.45	\$90.20	\$85.90	\$82.40
.2812	9/32	1	4	1 1/2	1/2	6	347209	347309	347409	78.50	.2531 - .2840	130.45	104.40	95.65	91.50	87.15	83.55
.3125	5/16	1	4	1 1/2	1/2	6	347210	347310	347410	78.50	.2841 - .3150	130.45	104.40	95.65	91.50	87.15	83.55
.3438	11/32	1	4	1 1/2	5/8	6	347211	347311	347411	80.85	.3151 - .3470	132.90	106.85	98.10	93.95	89.60	86.10
.3750	3/8	1	4	1 3/4	5/8	7	347212	347312	347412	74.75	.3471 - .3780	122.40	98.55	90.60	86.70	82.70	79.40
.4062	13/32	1	4	1 3/4	5/8	7	347213	347313	347413	85.45	.3781 - .4090	137.50	111.35	102.70	98.55	94.15	90.70
.4375	7/16	1	6	1 3/4	5/8	7	347214	347314	347414	91.00	.4091 - .4410	143.10	117.05	108.40	104.10	99.55	96.10
.4688	15/32	1	6	1 3/4	5/8	7	347215	347315	347415	93.45	.4411 - .4720	145.50	119.40	110.75	106.55	102.10	98.55
.5000	1/2	1	6	2	5/8	8	347216	347316	347416	107.00	.4721 - .5030	164.25	135.60	125.95	121.40	116.60	112.60
.5312	17/32	1	6	2	5/8	8	347217	347317	347417	113.75	.5031 - .5340	171.00	142.20	132.60	128.25	123.20	119.35
.5625	9/16	1	6	2	5/8	8	347218	347318	347418	113.75	.5341 - .5660	171.00	142.20	132.60	128.25	123.20	119.35
.5938	19/32	1	6	2	5/8	8	347219	347319	347419	120.95	.5661 - .5970	178.20	149.45	139.95	135.35	130.45	126.65
.6250	5/8	2	6	2 1/4	5/8	9	347220	347320	347420	120.95	.5971 - .6280	178.20	149.45	139.95	135.35	130.45	126.65
.6562	21/32	2	6	2 1/4	5/8	9	347221	347321	347421	123.00	.6281 - .6590	180.30	151.55	141.90	137.30	132.45	128.55
.6875	11/16	2	6	2 1/4	5/8	9	347222	347322	347422	123.00	.6591 - .6910	180.30	151.55	141.90	137.30	132.45	128.55
.7188	23/32	2	6	2 1/4	5/8	9	347223	347323	347423	127.85	.6911 - .7220	185.20	156.45	146.85	142.20	137.30	133.45
.7500	3/4	2	6	2 1/2	3/4	9 1/2	347224	347324	347424	127.85	.7221 - .7530	185.20	156.45	146.85	142.20	137.30	133.45
.7812	25/32	2	6	2 1/2	3/4	9 1/2	347225	347325	347425	130.75	.7531 - .7840	188.25	159.50	149.85	145.25	140.40	136.50
.8125	13/16	2	6	2 1/2	3/4	9 1/2	347226	347326	347426	130.75	.7841 - .8160	188.25	159.50	149.85	145.25	140.40	136.50
.8438	27/32	2	6	2 1/2	3/4	9 1/2	347227	347327	347427	137.20	.8161 - .8470	194.60	165.80	156.30	151.70	146.70	142.95
.8750	7/8	2	6	2 5/8	3/4	10	347228	347328	347428	142.40	.8471 - .8780	201.90	172.10	162.20	157.35	152.25	148.15
.9062	29/32	2	6	2 5/8	3/4	10	347229	347329	347429	173.40	.8781 - .9090	232.80	202.95	192.95	188.35	183.10	179.20
.9375	15/16	3	8	2 5/8	3/4	10	347230	347330	347430	173.40	.9091 - .9410	232.80	202.95	192.95	188.35	183.10	179.20
.9688	31/32	3	8	2 5/8	3/4	10	347231	347331	347431	178.35	.9411 - .9720	237.90	208.05	198.05	193.40	188.35	184.25
1.0000	1	3	8	2 3/4	3/4	10 1/2	347232	347332	347432	178.35	.9721 - 1.0030	237.90	208.05	198.05	193.40	188.35	184.25
1.0625	1 1/16	3	8	2 3/4	3/4	10 1/2	347234	347334	347434	220.35	1.0031 - 1.0660	277.30	248.65	239.20	234.55	229.80	225.95
1.1250	1 1/8	3	8	2 7/8	7/8	11	347236	347336	347436	233.95	1.0661 - 1.1280	290.90	262.35	252.70	248.35	243.30	239.45
1.1875	1 3/16	3	8	2 7/8	7/8	11	347238	347338	347438	255.70	1.1281 - 1.1905	312.75	284.15	274.55	270.20	265.15	261.40
1.2500	1 1/4	4	8	3	7/8	11 1/2	347240	347340	347440	277.70	1.1906 - 1.2530	334.80	306.15	296.70	292.05	287.20	283.45
1.3125	1 5/16	4	8	3	7/8	11 1/2	347242	347342	347442	293.40	1.2531 - 1.3155	350.45	321.80	312.20	307.65	302.85	298.95
1.3750	1 3/8	4	8	3 1/4	7/8	12	347244	347344	347444	309.05	1.3156 - 1.3780	366.00	337.40	327.85	323.25	318.50	314.55
1.4375	1 7/16	4	8	3 1/4	7/8	12	347246	347346	347446	326.60	1.3781 - 1.4405	383.70	355.10	345.60	341.10	336.20	332.30
1.5000	1 1/2	4	8	3 1/2	7/8	12 1/2	347248	347348	347448	344.25	1.4406 - 1.5030	401.20	372.65	363.00	358.50	353.65	349.75
1.5625	1 5/8	4	8	3 1/2	7/8	12 1/2	347250	347350	347450	403.70	1.5031 - 1.5660	460.75	432.10	422.55	418.15	413.20	409.40
1.6250	1 5/8	4	8	3 3/4	7/8	13	347252	347352	347452	417.80	1.5661 - 1.6280	474.75	446.10	436.70	431.90	427.15	423.35
1.6875	1 11/16	4	8	3 3/4	7/8	13	347254	347354	347454	469.85	1.6281 - 1.6910	526.80	498.30	488.65	484.20	479.30	475.40
1.7500	1 3/4	4	10	4	7/8	13 1/2	347256	347356	347456	469.85	1.6911 - 1.7530	526.80	498.30	488.65	484.20	479.30	475.40
1.8125	1 13/16	4	10	4	7/8	13 1/2	347258	347358	347458	469.85	1.7531 - 1.8160	526.80	498.30	488.65	484.20	479.30	475.40
1.8750	1 7/8	4	10	4 1/4	7/8	14	347260	347360	347460	492.25	1.8161 - 1.8780	549.25	520.70	511.05	506.60	501.65	497.75
1.9375	1 15/16	4	10	4 1/4	7/8	14	347262	347362	347462	492.25	1.8781 - 1.9410	549.25	520.70	511.05	506.60	501.65	497.75
2.0000	2	4	12	4 1/4	7/8	14	347264	347364	347464	492.25	1.9411 - 2.0030	549.25	520.70	511.05	506.60	501.65	497.75

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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	\$92.15	.2381 - .2530	\$145.65	\$118.75	\$109.75	\$105.55	\$101.00	\$97.40
.2812	9/32	1	4	1 1/2	6	345309	345409	345509	93.50	.2531 - .2840	147.00	120.20	111.15	106.95	102.40	98.90
.3125	5/16	1	4	1 1/2	6	345310	345410	345510	93.50	.2841 - .3150	147.00	120.20	111.15	106.95	102.40	98.90
.3438	11/32	1	4	1 1/2	6	345311	345411	345511	95.60	.3151 - .3470	149.15	122.25	113.45	109.05	104.45	100.95
.3750	3/8	1	4	1 3/4	7	345312	345412	345512	96.60	.3471 - .3780	150.25	123.35	114.45	110.15	105.55	102.00
.4062	13/32	1	4	1 3/4	7	345313	345413	345513	101.80	.3781 - .4090	155.15	128.45	119.40	115.15	110.60	106.95
.4375	7/16	1	6	1 3/4	7	345314	345414	345514	108.45	.4091 - .4410	161.90	135.00	126.00	121.85	117.25	113.75
.4688	15/32	1	6	1 3/4	7	345315	345415	345515	110.70	.4411 - .4720	164.20	137.45	128.45	124.10	119.55	115.90
.5000	1/2	1	6	2	8	345316	345416	345516	119.10	.4721 - .5030	176.50	147.80	138.30	133.50	128.70	124.85
.5312	17/32	1	6	2	8	345317	345417	345517	130.60	.5031 - .5340	188.00	159.30	149.60	145.10	140.10	136.35
.5625	9/16	1	6	2	8	345318	345418	345518	130.60	.5341 - .5660	188.00	159.30	149.60	145.10	140.10	136.35
.5938	19/32	1	6	2	8	345319	345419	345519	136.65	.5661 - .5970	194.10	165.40	155.90	151.15	146.25	142.35
.6250	5/8	2	6	2 1/4	9	345320	345420	345520	136.65	.5971 - .6280	194.10	165.40	155.90	151.15	146.25	142.35
.6562	21/32	2	6	2 1/4	9	345321	345421	345521	139.35	.6281 - .6590	196.55	167.80	158.20	153.55	148.80	144.85
.6875	11/16	2	6	2 1/4	9	345322	345422	345522	139.35	.6591 - .6910	196.55	167.80	158.20	153.55	148.80	144.85
.7188	23/32	2	6	2 1/4	9	345323	345423	345523	141.20	.6911 - .7220	198.50	169.70	160.05	155.45	150.70	146.70
.7500	3/4	2	6	2 1/2	9 1/2	345324	345424	345524	145.80	.7221 - .7530	202.95	174.25	164.65	160.05	155.15	151.25
.7812	25/32	2	6	2 1/2	9 1/2	345325	345425	345525	146.85	.7531 - .7840	204.10	175.45	165.80	161.25	156.35	152.45
.8125	13/16	2	6	2 1/2	9 1/2	345326	345426	345526	150.10	.7841 - .8160	207.40	178.75	169.25	164.55	159.60	155.90
.8438	27/32	2	6	2 1/2	9 1/2	345327	345427	345527	156.60	.8161 - .8470	213.95	185.35	175.70	171.10	166.25	162.35
.8750	7/8	2	6	2 5/8	10	345328	345428	345528	162.50	.8471 - .8780	222.05	192.25	182.35	177.50	172.55	168.40
.9062	29/32	2	6	2 5/8	10	345329	345429	345529	191.00	.8781 - .9090	250.40	220.70	210.65	205.95	200.75	196.85
.9375	15/16	3	8	2 5/8	10	345330	345430	345530	191.00	.9091 - .9410	250.40	220.70	210.65	205.95	200.75	196.85
.9688	31/32	3	8	2 5/8	10	345331	345431	345531	198.70	.9411 - .9720	258.00	228.25	218.20	213.55	208.55	204.50
1.0000	1	3	8	2 3/4	10 1/2	345332	345432	345532	198.70	.9721 - 1.0030	258.00	228.25	218.20	213.55	208.55	204.50
1.0625	1 1/16	3	8	2 3/4	10 1/2	345334	345434	345534	253.25	1.0031 - 1.0660	310.20	281.75	272.20	267.60	262.75	258.75
1.1250	1 1/8	3	8	2 7/8	11	345336	345436	345536	269.05	1.0661 - 1.1280	326.15	297.70	287.95	283.55	278.45	274.80
1.1875	1 3/16	3	8	2 7/8	11	345338	345438	345538	294.20	1.1281 - 1.1905	351.20	322.60	313.10	308.45	303.75	299.85
1.2500	1 1/4	4	8	3	11 1/2	345340	345440	345540	319.15	1.1906 - 1.2530	376.20	347.70	338.20	333.50	328.70	324.85
1.3125	1 5/16	4	8	3	11 1/2	345342	345442	345542	337.35	1.2531 - 1.3155	394.30	365.70	356.05	351.65	346.70	342.80
1.3750	1 3/8	4	8	3 1/4	12	345344	345444	345544	356.80	1.3156 - 1.3780	413.70	385.15	375.65	371.15	366.15	362.30
1.4375	1 7/16	4	8	3 1/4	12	345346	345446	345546	375.60	1.3781 - 1.4405	432.60	403.95	394.45	390.00	384.95	381.10
1.5000	1 1/2	4	8	3 1/2	12 1/2	345348	345448	345548	395.90	1.4406 - 1.5030	452.90	424.25	414.75	410.25	405.35	401.50

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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 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	\$101.85	.2841 - .3150	\$151.90	\$126.95	\$118.40	\$114.45	\$110.15	\$106.75
.3438	11/32	.2792	4	1 1/2	6	344211	344311	344411	112.20	.3151 - .3470	162.35	137.20	128.75	124.85	120.40	117.10
.3750	3/8	.3105	4	1 3/4	7	344212	344312	344412	113.15	.3471 - .3780	163.40	138.30	129.75	125.80	121.50	118.20
.4062	13/32	.3105	4	1 3/4	7	344213	344313	344413	118.25	.3781 - .4090	168.30	143.25	134.85	130.75	126.65	123.20
.4375	7/16	.3730	6	1 3/4	7	344214	344314	344414	122.85	.4091 - .4410	172.90	147.85	139.50	135.50	131.20	127.60
.4688	15/32	.3730	6	1 3/4	7	344215	344315	344415	130.60	.4411 - .4720	180.80	155.60	147.25	143.25	138.90	135.60
.5000	1/2	.4355	6	2	8	344216	344316	344416	140.90	.4721 - .5030	194.30	167.65	158.50	154.35	149.70	146.10
.5312	17/32	.4355	6	2	8	344217	344317	344417	144.95	.5031 - .5340	198.50	171.55	162.55	158.35	153.90	150.25
.5625	9/16	.4355	6	2	8	344218	344318	344418	144.95	.5341 - .5660	198.50	171.55	162.55	158.35	153.90	150.25
.5938	19/32	.4355	6	2	8	344219	344319	344419	149.25	.5661 - .5970	202.75	175.85	166.95	162.55	158.05	154.45
.6250	5/8	.5615	6	2 1/4	9	344220	344320	344420	149.25	.5971 - .6280	202.75	175.85	166.95	162.55	158.05	154.45
.6562	21/32	.5615	6	2 1/4	9	344221	344321	344421	154.00	.6281 - .6590	207.40	180.50	171.55	167.40	162.75	159.20
.6875	11/16	.5615	6	2 1/4	9	344222	344322	344422	163.40	.6591 - .6910	216.90	190.15	181.10	176.90	172.40	168.70
.7188	23/32	.5615	6	2 1/4	9	344223	344323	344423	165.85	.6911 - .7220	219.45	192.55	183.75	179.35	174.85	171.15
.7500	3/4	.6245	6	2 1/2	9 1/2	344224	344324	344424	168.40	.7221 - .7530	221.85	195.15	186.10	181.95	177.30	173.75
.7812	25/32	.6245	6	2 1/2	9 1/2	344225	344325	344425	172.90	.7531 - .7840	226.40	199.65	190.55	186.25	181.80	178.15
.8125	13/16	.6245	6	2 1/2	9 1/2	344226	344326	344426	172.90	.7841 - .8160	226.40	199.65	190.55	186.25	181.80	178.15
.8438	27/32	.6245	6	2 1/2	9 1/2	344227	344327	344427	182.25	.8161 - .8470	235.80	208.85	199.90	195.70	191.15	187.50
.8750	7/8	.7495	6	2 5/8	10	344228	344328	344428	189.15	.8471 - .8780	244.60	216.85	207.55	203.05	198.45	194.60
.9062	29/32	.7495	6	2 5/8	10	344229	344329	344429	220.35	.8781 - .9090	275.95	248.10	238.70	234.25	229.65	225.80
.9375	15/16	.7495	8	2 5/8	10	344230	344330	344430	220.35	.9091 - .9410	275.95	248.10	238.70	234.25	229.65	225.80
.9688	31/32	.7495	8	2 5/8	10	344231	344331	344431	231.00	.9411 - .9720	286.65	258.75	249.50	245.15	240.20	236.55
1.0000	1	.8745	8	2 3/4	10 1/2	344232	344332	344432	231.00	.9721 - 1.0030	286.65	258.75	249.50	245.15	240.20	236.55
1.0625	1 1/16	.8745	8	2 3/4	10 1/2	344234	344334	344434	271.55	1.0031 - 1.0660	327.20	299.25	289.95	285.60	280.75	277.00
1.1250	1 1/8	.8745	8	2 7/8	11	344236	344336	344436	280.00	1.0661 - 1.1280	335.50	307.65	298.30	294.05	289.30	285.50
1.1875	1 3/16	.9995	8	2 7/8	11	344238	344338	344438	294.25	1.1281 - 1.1905	349.85	322.00	312.80	308.30	303.55	299.85
1.2500	1 1/4	.9995	8	3	11 1/2	344240	344340	344440	311.45	1.1906 - 1.2530	367.00	339.25	329.90	325.55	320.65	316.95
1.3125	1 5/16	.9995	8	3	11 1/2	344242	344342	344442	344.60	1.2531 - 1.3155	400.20	372.35	363.00	358.65	353.80	350.00
1.3750	1 3/8	.9995	8	3 1/4	12	344244	344344	344444	377.60	1.3156 - 1.3780	433.00	405.25	396.05	391.45	386.80	383.00
1.4375	1 7/16	.9995	8	3 1/4	12	344246	344346	344446	400.10	1.3781 - 1.4405	455.45	427.65	418.35	414.05	409.30	405.50
1.5000	1 1/2	1.2495	8	3 1/2	12 1/2	344248	344348	344448	422.55	1.4406 - 1.5030	478.05	450.25	440.90	436.70	431.70	428.10

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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	FRACTIONAL			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	\$108.60	.2841 - .3150	\$162.20	\$135.20	\$126.40	\$122.05	\$117.50	\$113.90
.3438	11/32	.2792	4	1 1/2	6	348211	348311	348411	119.65	.3151 - .3470	173.10	146.30	137.45	133.15	128.55	124.95
.3750	3/8	.3105	4	1 3/4	7	348212	348312	348412	120.80	.3471 - .3780	174.25	147.55	138.50	134.20	129.60	125.95
.4062	13/32	.3105	4	1 3/4	7	348213	348313	348413	126.00	.3781 - .4090	179.60	152.90	143.80	139.60	134.90	131.40
.4375	7/16	.3730	6	1 3/4	7	348214	348314	348414	131.15	.4091 - .4410	184.40	157.75	148.80	144.55	139.90	136.35
.4688	15/32	.3730	6	1 3/4	7	348215	348315	348415	139.45	.4411 - .4720	192.95	166.00	157.00	152.90	148.15	144.65
.5000	1/2	.4355	6	2	8	348216	348316	348416	144.65	.4721 - .5030	199.65	172.10	162.80	158.45	153.60	150.00
.5312	17/32	.4355	6	2	8	348217	348317	348417	148.85	.5031 - .5340	203.75	176.15	167.00	162.55	158.00	154.20
.5625	9/16	.4355	6	2	8	348218	348318	348418	148.85	.5341 - .5660	203.75	176.15	167.00	162.55	158.00	154.20
.5938	19/32	.4355	6	2	8	348219	348319	348419	153.20	.5661 - .5970	208.10	180.50	171.40	167.00	162.35	158.50
.6250	5/8	.5615	6	2 1/4	9	348220	348320	348420	153.20	.5971 - .6280	208.10	180.50	171.40	167.00	162.35	158.50
.6562	21/32	.5615	6	2 1/4	9	348221	348321	348421	158.05	.6281 - .6590	213.00	185.50	176.15	171.95	167.15	163.40
.6875	11/16	.5615	6	2 1/4	9	348222	348322	348422	167.80	.6591 - .6910	222.65	195.25	185.95	181.75	176.90	173.10
.7188	23/32	.5615	6	2 1/4	9	348223	348323	348423	170.45	.6911 - .7220	225.25	197.70	188.55	184.20	179.45	175.75
.7500	3/4	.6245	6	2 1/2	9 1/2	348224	348324	348424	172.90	.7221 - .7530	227.90	200.45	191.15	186.70	182.10	178.35
.7812	25/32	.6245	6	2 1/2	9 1/2	348225	348325	348425	177.50	.7531 - .7840	232.50	204.95	195.70	191.45	186.65	182.90
.8125	13/16	.6245	6	2 1/2	9 1/2	348226	348326	348426	177.50	.7841 - .8160	232.50	204.95	195.70	191.45	186.65	182.90
.8438	27/32	.6245	6	2 1/2	9 1/2	348227	348327	348427	187.20	.8161 - .8470	242.00	214.45	205.20	200.80	196.20	192.45
.8750	7/8	.7495	6	2 5/8	10	348228	348328	348428	194.25	.8471 - .8780	251.20	222.60	213.10	208.55	203.60	199.75
.9062	29/32	.7495	6	2 5/8	10	348229	348329	348429	226.25	.8781 - .9090	283.20	254.65	245.15	240.70	235.70	231.85
.9375	15/16	.7495	8	2 5/8	10	348230	348330	348430	226.25	.9091 - .9410	283.20	254.65	245.15	240.70	235.70	231.85
.9688	31/32	.7495	8	2 5/8	10	348231	348331	348431	237.25	.9411 - .9720	294.25	265.75	256.25	251.65	246.75	243.00
1.0000	1	.8745	8	2 3/4	10 1/2	348232	348332	348432	237.25	.9721 - 1.0030	294.25	265.75	256.25	251.65	246.75	243.00
1.0625	1 1/16	.8745	8	2 3/4	10 1/2	348234	348334	348434	278.95	1.0031 - 1.0660	335.90	307.35	297.85	293.10	288.35	284.50
1.1250	1 1/8	.8745	8	2 7/8	11	348236	348336	348436	287.60	1.0661 - 1.1280	344.55	316.05	306.30	301.85	296.95	293.05
1.1875	1 3/16	.9995	8	2 7/8	11	348238	348338	348438	302.25	1.1281 - 1.1905	359.20	330.65	321.10	316.50	311.60	307.75
1.2500	1 1/4	.9995	8	3	11 1/2	348240	348340	348440	319.95	1.1906 - 1.2530	376.80	348.30	338.70	334.10	329.30	325.55
1.3125	1 5/16	.9995	8	3	11 1/2	348242	348342	348442	353.80	1.2531 - 1.3155	410.85	382.20	372.75	368.25	363.30	359.50
1.3750	1 3/8	.9995	8	3 1/4	12	348244	348344	348444	387.70	1.3156 - 1.3780	444.65	416.20	406.55	401.95	397.20	393.20
1.4375	1 7/16	.9995	8	3 1/4	12	348246	348346	348446	410.75	1.3781 - 1.4405	467.70	439.05	429.60	425.10	420.20	416.35
1.5000	1 1/2	1.2495	8	3 1/2	12 1/2	348248	348348	348448	433.85	1.4406 - 1.5030	490.85	462.35	452.90	448.15	443.35	439.65

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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 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	\$84.70	.1770 - .2040	\$134.85	\$109.75	\$101.25	\$97.35	\$93.00	\$89.70
.2188	7/32	.2075	4	1 1/4	1/2	5	343207	343607	343807	84.70	.2041 - .2210	134.85	109.75	101.25	97.35	93.00	89.70
.2344	15/64	.2265	4	1 1/2	1/2	6	34322344	34362344	34382344	84.70	.2211 - .2380	134.85	109.75	101.25	97.35	93.00	89.70
.2500	1/4	.2405	4	1 1/2	1/2	6	343208	343608	343808	84.70	.2381 - .2530	134.85	109.75	101.25	97.35	93.00	89.70
.2812	9/32	.2485	4	1 1/2	1/2	6	343209	343609	343809	84.85	.2531 - .2840	135.00	110.00	101.50	97.60	93.20	89.85
.3125	5/16	.2792	4	1 1/2	1/2	6	343210	343610	343810	84.85	.2841 - .3150	135.00	110.00	101.50	97.60	93.20	89.85
.3438	11/32	.2792	4	1 1/2	5/8	6	343211	343611	343811	93.50	.3151 - .3470	143.65	118.60	110.15	106.25	101.85	98.35
.3750	3/8	.3105	4	1 3/4	5/8	7	343212	343612	343812	94.35	.3471 - .3780	144.50	119.35	110.90	106.95	102.65	99.25
.4062	13/32	.3105	4	1 3/4	5/8	7	343213	343613	343813	98.55	.3781 - .4090	148.70	123.50	115.15	111.05	106.85	103.50
.4375	7/16	.3730	6	1 3/4	5/8	7	343214	343614	343814	102.40	.4091 - .4410	152.45	127.30	118.95	115.00	110.70	107.25
.4688	15/32	.3730	6	1 3/4	5/8	7	343215	343615	343815	108.85	.4411 - .4720	159.15	133.90	125.50	121.50	117.20	113.90
.5000	1/2	.4355	6	2	5/8	8	343216	343616	343816	117.25	.4721 - .5030	170.80	143.85	134.90	130.60	126.00	122.40
.5312	17/32	.4355	6	2	5/8	8	343217	343617	343817	120.80	.5031 - .5340	174.25	147.55	138.50	134.20	129.60	125.95
.5625	9/16	.4355	6	2	5/8	8	343218	343618	343818	120.80	.5341 - .5660	174.25	147.55	138.50	134.20	129.60	125.95
.5938	19/32	.4355	6	2	5/8	8	343219	343619	343819	124.55	.5661 - .5970	178.00	151.15	142.10	137.90	133.30	129.70
.6250	5/8	.5615	6	2 1/4	5/8	9	343220	343620	343820	124.55	.5971 - .6280	178.00	151.15	142.10	137.90	133.30	129.70
.6562	21/32	.5615	6	2 1/4	5/8	9	343221	343621	343821	128.30	.6281 - .6590	181.75	154.90	145.95	141.65	136.95	133.35
.6875	11/16	.5615	6	2 1/4	5/8	9	343222	343622	343822	136.35	.6591 - .6910	189.80	162.90	154.05	149.70	145.10	141.55
.7188	23/32	.5615	6	2 1/4	5/8	9	343223	343623	343823	138.45	.6911 - .7220	191.80	165.10	156.15	151.85	147.25	143.65
.7500	3/4	.6245	6	2 1/2	3/4	9 1/2	343224	343624	343824	140.35	.7221 - .7530	193.85	167.00	158.05	153.90	149.25	145.65
.7812	25/32	.6245	6	2 1/2	3/4	9 1/2	343225	343625	343825	144.20	.7531 - .7840	197.60	170.85	161.90	157.65	153.05	149.40
.8125	13/16	.6245	6	2 1/2	3/4	9 1/2	343226	343626	343826	144.20	.7841 - .8160	197.60	170.85	161.90	157.65	153.05	149.40
.8438	27/32	.6245	6	2 1/2	3/4	9 1/2	343227	343627	343827	151.85	.8161 - .8470	205.20	178.60	169.55	165.35	160.65	157.00
.8750	7/8	.7495	6	2 5/8	3/4	10	343228	343628	343828	157.60	.8471 - .8780	213.10	185.35	176.00	171.45	166.70	162.90
.9062	29/32	.7495	6	2 5/8	3/4	10	343229	343629	343829	183.60	.8781 - .9090	239.05	211.15	201.90	197.55	192.75	189.10
.9375	15/16	.7495	8	2 5/8	3/4	10	343230	343630	343830	183.60	.9091 - .9410	239.05	211.15	201.90	197.55	192.75	189.10
.9688	31/32	.7495	8	2 5/8	3/4	10	343231	343631	343831	192.55	.9411 - .9720	248.10	220.30	210.85	206.50	201.65	197.85
1.0000	1	.8745	8	2 3/4	3/4	10 1/2	343232	343632	343832	192.55	.9721 - 1.0030	248.10	220.30	210.85	206.50	201.65	197.85
1.0625	1 1/16	.8745	8	2 3/4	3/4	10 1/2	343234	343634	343834	206.55	1.0031 - 1.0660	262.05	234.25	224.95	220.60	215.85	212.00
1.1250	1 1/8	.8745	8	2 7/8	7/8	11	343236	343636	343836	213.00	1.0661 - 1.1280	268.60	240.70	231.40	226.90	222.20	218.30
1.1875	1 3/16	.9995	8	2 7/8	7/8	11	343238	343638	343838	223.75	1.1281 - 1.1905	279.25	251.40	242.15	237.75	232.85	229.10
1.2500	1 1/4	.9995	8	3	7/8	11 1/2	343240	343640	343840	236.95	1.1906 - 1.2530	292.50	264.65	255.40	250.70	246.10	242.35
1.3125	1 5/16	.9995	8	3	7/8	11 1/2	343242	343642	343842	262.05	1.2531 - 1.3155	317.55	289.75	280.55	276.10	271.35	267.60
1.3750	1 3/8	.9995	8	3 1/4	7/8	12	343244	343644	343844	287.00	1.3156 - 1.3780	342.55	314.80	305.45	301.00	296.25	292.55
1.4375	1 7/16	.9995	8	3 1/4	7/8	12	343246	343646	343846	304.20	1.3781 - 1.4405	359.70	331.90	322.60	318.25	313.35	309.60
1.5000	1 1/2	1.2495	8	3 1/2	7/8	12 1/2	343248	343648	343848	321.40	1.4406 - 1.5030	376.80	349.00	339.65	335.25	330.45	326.70

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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	\$90.30	.1770 - .2040	\$143.80	\$117.05	\$108.10	\$103.80	\$99.25	\$95.60
.2188	7/32	.2075	4	1 1/4	1/2	5	343307	343707	343907	90.30	.2041 - .2210	143.80	117.05	108.10	103.80	99.25	95.60
.2344	15/64	.2265	4	1 1/2	1/2	6	34332344	34372344	34392344	90.30	.2211 - .2380	143.80	117.05	108.10	103.80	99.25	95.60
.2500	1/4	.2405	4	1 1/2	1/2	6	343308	343708	343908	90.30	.2381 - .2530	143.80	117.05	108.10	103.80	99.25	95.60
.2812	9/32	.2485	4	1 1/2	1/2	6	343309	343709	343909	90.60	.2531 - .2840	144.10	117.25	108.40	103.95	99.40	95.90
.3125	5/16	.2792	4	1 1/2	1/2	6	343310	343710	343910	90.60	.2841 - .3150	144.10	117.25	108.40	103.95	99.40	95.90
.3438	11/32	.2792	4	1 1/2	5/8	6	343311	343711	343911	99.65	.3151 - .3470	153.20	126.55	117.50	113.15	108.60	105.10
.3750	3/8	.3105	4	1 3/4	5/8	7	343312	343712	343912	100.65	.3471 - .3780	154.15	127.30	118.35	114.05	109.45	105.80
.4062	13/32	.3105	4	1 3/4	5/8	7	343313	343713	343913	105.15	.3781 - .4090	158.50	131.85	122.85	118.60	114.00	110.40
.4375	7/16	.3730	6	1 3/4	5/8	7	343314	343714	343914	109.25	.4091 - .4410	162.55	135.80	126.95	122.70	117.95	114.45
.4688	15/32	.3730	6	1 3/4	5/8	7	343315	343715	343915	116.05	.4411 - .4720	169.65	142.95	133.90	129.60	125.00	121.40
.5000	1/2	.4355	6	2	5/8	8	343316	343716	343916	120.35	.4721 - .5030	175.30	147.80	138.60	134.20	129.55	125.80
.5312	17/32	.4355	6	2	5/8	8	343317	343717	343917	124.00	.5031 - .5340	178.90	151.30	142.10	137.80	133.15	129.30
.5625	9/16	.4355	6	2	5/8	8	343318	343718	343918	124.00	.5341 - .5660	178.90	151.30	142.10	137.80	133.15	129.30
.5938	19/32	.4355	6	2	5/8	8	343319	343719	343919	127.85	.5661 - .5970	182.75	155.15	146.00	141.65	136.90	133.20
.6250	5/8	.5615	6	2 1/4	5/8	9	343320	343720	343920	127.85	.5971 - .6280	182.75	155.15	146.00	141.65	136.90	133.20
.6562	21/32	.5615	6	2 1/4	5/8	9	343321	343721	343921	131.60	.6281 - .6590	186.55	159.05	149.75	145.35	140.65	136.95
.6875	11/16	.5615	6	2 1/4	5/8	9	343322	343722	343922	139.95	.6591 - .6910	194.85	167.40	158.15	153.60	149.10	145.25
.7188	23/32	.5615	6	2 1/4	5/8	9	343323	343723	343923	142.05	.6911 - .7220	197.00	169.45	160.30	156.00	151.15	147.55
.7500	3/4	.6245	6	2 1/2	3/4	9 1/2	343324	343724	343924	144.10	.7221 - .7530	199.00	171.45	162.35	158.00	153.20	149.45
.7812	25/32	.6245	6	2 1/2	3/4	9 1/2	343325	343725	343925	148.00	.7531 - .7840	202.95	175.45	166.25	161.80	157.15	153.40
.8125	13/16	.6245	6	2 1/2	3/4	9 1/2	343326	343726	343926	148.00	.7841 - .8160	202.95	175.45	166.25	161.80	157.15	153.40
.8438	27/32	.6245	6	2 1/2	3/4	9 1/2	343327	343727	343927	156.00	.8161 - .8470	210.85	183.35	174.00	169.70	164.95	161.25
.8750	7/8	.7495	6	2 5/8	3/4	10	343328	343728	343928	161.80	.8471 - .8780	218.90	190.25	180.50	176.15	171.15	167.35
.9062	29/32	.7495	6	2 5/8	3/4	10	343329	343729	343929	188.50	.8781 - .9090	245.45	216.90	207.40	202.80	197.85	194.10
.9375	15/16	.7495	8	2 5/8	3/4	10	343330	343730	343930	188.50	.9091 - .9410	245.45	216.90	207.40	202.80	197.85	194.10
.9688	31/32	.7495	8	2 5/8	3/4	10	343331	343731	343931	197.60	.9411 - .9720	254.65	226.20	216.60	212.00	207.10	203.30
1.0000	1	.8745	8	2 3/4	3/4	10 1/2	343332	343732	343932	197.60	.9721 - 1.0030	254.65	226.20	216.60	212.00	207.10	203.30
1.0625	1 1/16	.8745	8	2 3/4	3/4	10 1/2	343334	343734	343934	212.10	1.0031 - 1.0660	269.05	240.70	230.95	226.40	221.50	217.70
1.1250	1 1/8	.8745	8	2 5/8	7/8	11	343336	343736	343936	218.70	1.0661 - 1.1280	275.70	247.10	237.55	232.95	228.10	224.30
1.1875	1 3/16	.9995	8	2 7/8	7/8	11	343338	343738	343938	229.80	1.1281 - 1.1905	286.75	258.25	248.60	244.05	239.20	235.30
1.2500	1 1/4	.9995	8	3	7/8	11 1/2	343340	343740	343940	243.20	1.1906 - 1.2530	300.15	271.70	262.05	257.60	252.65	248.75
1.3125	1 5/16	.9995	8	3	7/8	11 1/2	343342	343742	343942	269.05	1.2531 - 1.3155	326.15	297.70	287.95	283.55	278.45	274.80
1.3750	1 3/8	.9995	8	3 1/4	7/8	12	343344	343744	343944	294.80	1.3156 - 1.3780	351.80	323.15	313.60	309.15	304.20	300.30
1.4375	1 7/16	.9995	8	3 1/4	7/8	12	343346	343746	343946	312.45	1.3781 - 1.4405	369.20	340.80	331.30	326.60	321.80	317.95
1.5000	1 1/2	1.2495	8	3 1/2	7/8	12 1/2	343348	343748	343948	330.05	1.4406 - 1.5030	387.00	358.35	348.85	344.30	339.40	335.50

CARBIDE TIPPED NAS 897 EXPANSION CHUCKING REAMERS

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

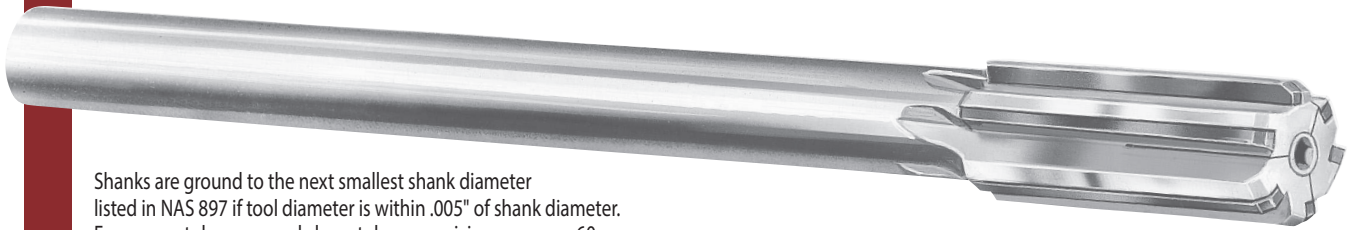
TYPE 3466 - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR CAST IRON

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	\$123.40	.2841 - .3150	\$177.00	\$150.25	\$141.35	\$136.90	\$132.30	\$128.70
.3438	11/32	.2792	4	1	6	346411	346611	346811	123.40	.3151 - .3470	177.00	150.25	141.35	136.90	132.30	128.70
.3750	3/8	.3105	4	1	7	346412	346612	346812	116.65	.3471 - .3780	166.65	141.65	133.20	129.15	124.95	121.50
.4062	13/32	.3105	4	1	7	346413	346613	346813	122.85	.3781 - .4090	172.90	147.85	139.50	135.50	131.20	127.60
.4375	7/16	.3730	6	1	7	346414	346614	346814	122.85	.4091 - .4410	172.90	147.85	139.50	135.50	131.20	127.60
.4688	15/32	.3730	6	1	7	346415	346615	346815	130.15	.4411 - .4720	180.30	155.15	146.80	142.90	138.50	135.00
.5000	1/2	.4355	6	1	8	346416	346616	346816	130.15	.4721 - .5030	180.30	155.15	146.80	142.90	138.50	135.00
.5312	17/32	.4355	6	1	8	346417	346617	346817	133.45	.5031 - .5340	183.80	158.45	150.10	146.10	141.80	138.50
.5625	9/16	.4355	6	1 1/8	8	346418	346618	346818	133.45	.5341 - .5660	183.80	158.45	150.10	146.10	141.80	138.50
.5938	19/32	.4355	6	1 1/8	8	346419	346619	346819	139.35	.5661 - .5970	189.35	164.25	156.00	151.85	147.65	144.20
.6250	5/8	.5615	6	1 1/4	9	346420	346620	346820	139.35	.5971 - .6280	189.35	164.25	156.00	151.85	147.65	144.20
.6562	21/32	.5615	6	1 1/4	9	346421	346621	346821	152.30	.6281 - .6590	202.45	177.20	168.85	164.80	160.60	157.30
.6875	11/16	.5615	6	1 1/4	9	346422	346622	346822	152.30	.6591 - .6910	202.45	177.20	168.85	164.80	160.60	157.30
.7188	23/32	.5615	6	1 1/4	9	346423	346623	346823	158.05	.6911 - .7220	208.20	182.95	174.60	170.70	166.35	162.80
.7500	3/4	.6245	6	1 3/8	9 1/2	346424	346624	346824	158.05	.7221 - .7530	208.20	182.95	174.60	170.70	166.35	162.80
.7812	25/32	.6245	6	1 3/8	9 1/2	346425	346625	346825	170.30	.7531 - .7840	220.50	195.40	186.95	182.90	178.65	175.20
.8125	13/16	.6245	6	1 3/8	9 1/2	346426	346626	346826	170.30	.7841 - .8160	220.50	195.40	186.95	182.90	178.65	175.20
.8438	27/32	.6245	6	1 3/8	9 1/2	346427	346627	346827	177.00	.8161 - .8470	227.20	201.95	193.55	189.55	185.35	181.95
.8750	7/8	.7495	6	1 1/2	10	346428	346628	346828	183.75	.8471 - .8780	235.80	209.65	200.80	196.75	192.25	188.70
.9062	29/32	.7495	6	1 1/2	10	346429	346629	346829	195.55	.8781 - .9090	247.45	221.45	212.70	208.65	204.10	200.60
.9375	15/16	.7495	8	1 1/2	10	346430	346630	346830	195.55	.9091 - .9410	247.45	221.45	212.70	208.65	204.10	200.60
.9688	31/32	.7495	8	1 1/2	10	346431	346631	346831	202.95	.9411 - .9720	255.00	229.05	220.35	216.15	211.70	208.10
1.0000	1	.8745	8	1 5/8	10 1/2	346432	346632	346832	202.95	.9721 - 1.0030	255.00	229.05	220.35	216.15	211.70	208.10
1.0312	1 1/32	.8745	8	1 5/8	10 1/2	346433	346633	346833	222.60	-	-	-	-	-	-	-
1.0625	1 1/16	.8745	8	1 5/8	10 1/2	346434	346634	346834	222.60	1.0031 - 1.0660	274.55	248.50	239.85	235.70	231.10	227.75
1.0938	1 1/32	.8745	8	1 3/4	11	346435	346635	346835	222.60	-	-	-	-	-	-	-
1.1250	1 1/8	.8745	8	1 3/4	11	346436	346636	346836	222.60	1.0661 - 1.1280	274.55	248.50	239.85	235.70	231.10	227.75
1.1875	1 3/16	.9995	8	1 3/4	11	346438	346638	346838	243.00	1.1281 - 1.1905	295.05	268.90	260.15	256.00	251.50	248.20
1.2500	1 1/4	.9995	8	1 7/8	11 1/2	346440	346640	346840	243.00	1.1906 - 1.2530	295.05	268.90	260.15	256.00	251.50	248.20
1.3125	1 5/16	.9995	8	1 7/8	11 1/2	346442	346642	346842	268.30	1.2531 - 1.3155	320.30	294.20	285.50	281.40	276.85	273.35
1.3750	1 3/8	.9995	8	2	12	346444	346644	346844	281.90	1.3156 - 1.3780	334.05	308.05	299.25	295.10	290.75	287.05
1.4375	1 7/16	.9995	8	2	12	346446	346646	346846	332.20	1.3781 - 1.4405	387.75	359.95	350.65	346.30	341.40	337.65
1.5000	1 1/2	1.2495	8	2 1/8	12 1/2	346448	346648	346848	341.65	1.4406 - 1.5030	397.30	369.20	360.05	355.65	350.85	347.05
1.5625	1 5/8	1.2495	8	2 1/8	12 1/2	346450	346650	346850	448.85	1.5031 - 1.5660	504.35	476.60	467.25	462.75	458.05	454.25
1.6250	1 5/8	1.2495	8	2 1/4	13	346452	346652	346852	448.85	1.5661 - 1.6280	504.35	476.60	467.25	462.75	458.05	454.25
1.6875	1 11/16	1.2495	8	2 1/4	13	346454	346654	346854	497.00	1.6281 - 1.6910	552.55	524.80	515.55	510.95	506.20	502.60
1.7500	1 3/4	1.2495	10	2 3/8	13 1/2	346456	346656	346856	497.00	1.6911 - 1.7530	552.55	524.80	515.55	510.95	506.20	502.60
1.8125	1 13/16	1.4995	10	2 3/8	13 1/2	346458	346658	346858	588.50	1.7531 - 1.8160	644.00	616.10	607.00	602.55	597.80	593.95
1.8750	1 7/8	1.4995	10	2 1/2	14	346460	346660	346860	588.50	1.8161 - 1.8780	644.00	616.10	607.00	602.55	597.80	593.95
1.9375	1 15/16	1.4995	10	2 1/2	14	346462	346662	346862	643.15	1.8781 - 1.9410	698.50	670.75	661.40	657.05	652.30	648.55
2.0000	2	1.4995	12	2 1/2	14	346464	346664	346864	643.15	1.9411 - 2.0030	698.50	670.75	661.40	657.05	652.30	648.55

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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	\$130.45	.3471 - .3780	\$180.50	\$155.45	\$147.10	\$143.10	\$138.75	\$135.35
.4062	13/32	1	4	1	7	346113	346213	346313	132.45	.3781 - .4090	182.50	157.45	149.10	145.00	140.65	137.30
.4375	7/16	1	6	1	7	346114	346214	346314	134.45	.4091 - .4410	184.40	159.35	151.00	147.00	142.70	139.35
.4688	15/32	1	6	1	7	346115	346215	346315	140.10	.4411 - .4720	190.30	165.35	156.65	152.75	148.55	145.10
.5000	1/2	1	6	1	8	346116	346216	346316	141.05	.4721 - .5030	191.15	166.00	157.65	153.55	149.30	145.95
.5312	17/32	1	6	1	8	346117	346217	346317	145.35	.5031 - .5340	195.55	170.45	162.10	158.05	153.60	150.30
.5625	9/16	1	6	1 1/8	8	346118	346218	346318	145.35	.5341 - .5660	195.55	170.45	162.10	158.05	153.60	150.30
.5938	19/32	1	6	1 1/8	8	346119	346219	346319	150.90	.5661 - .5970	200.90	175.85	167.55	163.50	159.20	155.90
.6250	5/8	2	6	1 1/4	9	346120	346220	346320	151.25	.5971 - .6280	201.45	176.30	167.85	163.90	159.60	156.20
.6562	21/32	2	6	1 1/4	9	346121	346221	346321	164.25	.6281 - .6590	214.45	189.25	180.90	176.90	172.60	169.25
.6875	11/16	2	6	1 1/4	9	346122	346222	346322	164.70	.6591 - .6910	215.00	189.95	181.30	177.30	173.00	169.70
.7188	23/32	2	6	1 1/4	9	346123	346223	346323	170.80	.6911 - .7220	221.00	195.70	187.35	183.35	179.00	175.70
.7500	3/4	2	6	1 3/8	9 1/2	346124	346224	346324	170.80	.7221 - .7530	221.00	195.70	187.35	183.35	179.00	175.70
.7812	25/32	2	6	1 3/8	9 1/2	346125	346225	346325	183.20	.7531 - .7840	233.50	208.25	199.85	195.85	191.55	188.25
.8125	13/16	2	6	1 3/8	9 1/2	346126	346226	346326	183.20	.7841 - .8160	233.50	208.25	199.85	195.85	191.55	188.25
.8438	27/32	2	6	1 3/8	9 1/2	346127	346227	346327	190.85	.8161 - .8470	241.05	215.90	207.40	203.45	199.05	195.70
.8750	7/8	2	6	1 1/2	10	346128	346228	346328	197.90	.8471 - .8780	250.20	223.95	215.25	211.10	206.65	203.05
.9062	29/32	2	6	1 1/2	10	346129	346229	346329	208.65	.8781 - .9090	260.55	234.45	225.80	221.65	217.25	213.60
.9375	15/16	3	8	1 1/2	10	346130	346230	346330	209.65	.9091 - .9410	261.70	235.70	226.90	222.75	218.20	214.85
.9688	31/32	3	8	1 1/2	10	346131	346231	346331	217.05	.9411 - .9720	269.05	243.05	234.25	230.10	225.65	222.20
1.0000	1	3	8	1 5/8	10 1/2	346132	346232	346332	217.05	.9721 - 1.0030	269.05	243.05	234.25	230.10	225.65	222.20
1.0312	1 1/32	3	8	1 5/8	10 1/2	346133	346233	346333	230.85	-	-	-	-	-	-	-
1.0625	1 1/16	3	8	1 5/8	10 1/2	346134	346234	346334	230.85	1.0031 - 1.0660	282.90	256.85	248.25	244.05	239.60	236.00
1.0938	1 3/32	3	8	1 3/4	11	346135	346235	346335	237.75	-	-	-	-	-	-	-
1.1250	1 1/8	3	8	1 3/4	11	346136	346236	346336	237.75	1.0661 - 1.1280	289.65	263.60	254.80	250.65	246.30	242.75
1.1875	1 3/16	3	8	1 3/4	11	346138	346238	346338	253.55	1.1281 - 1.1905	305.70	279.55	270.80	266.65	262.15	258.70
1.2500	1 1/4	4	8	1 7/8	11 1/2	346140	346240	346340	270.80	1.1906 - 1.2530	322.95	296.80	287.95	283.85	279.45	276.00
1.3125	1 5/16	4	8	1 7/8	11 1/2	346142	346242	346342	281.00	1.2531 - 1.3155	333.10	307.05	298.25	294.10	289.65	286.05
1.3750	1 3/8	4	8	2	12	346144	346244	346344	311.60	1.3156 - 1.3780	363.80	337.65	329.05	324.85	320.30	316.85
1.4375	1 7/16	4	8	2	12	346146	346246	346346	345.40	1.3781 - 1.4405	401.05	373.00	363.85	359.40	354.60	350.85
1.5000	1 1/2	4	8	2 1/8	12 1/2	346148	346248	346348	355.80	1.4406 - 1.5030	411.40	383.50	374.30	369.85	365.10	361.35
1.5625	1 9/16	4	8	2 1/8	12 1/2	346150	346250	346350	498.60	1.5031 - 1.5660	554.20	526.30	516.75	512.50	507.80	504.05
1.6250	1 5/8	4	8	2 1/4	13	346152	346252	346352	498.60	1.5661 - 1.6280	554.20	526.30	516.75	512.50	507.80	504.05
1.6875	1 11/16	4	8	2 1/4	13	346154	346254	346354	552.40	1.6281 - 1.6910	608.00	580.10	570.75	566.30	561.60	557.80
1.7500	1 3/4	4	10	2 3/8	13 1/2	346156	346256	346356	552.40	1.6911 - 1.7530	608.00	580.10	570.75	566.30	561.60	557.80
1.8125	1 13/16	4	10	2 3/8	13 1/2	346158	346258	346358	654.00	1.7531 - 1.8160	709.55	681.80	672.45	668.00	663.20	659.50
1.8750	1 7/8	4	10	2 1/2	14	346160	346260	346360	654.00	1.8161 - 1.8780	709.55	681.80	672.45	668.00	663.20	659.50
1.9375	1 15/16	4	10	2 1/2	14	346162	346262	346362	714.20	1.8781 - 1.9410	769.70	741.90	732.60	728.25	723.50	719.75
2.0000	2	4	12	2 1/2	14	346164	346264	346364	714.20	1.9411 - 2.0030	769.70	741.90	732.60	728.25	723.50	719.75

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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	\$333.35	\$297.35	\$285.45	\$279.60	\$273.40	\$268.75
.3781 - .4090	.3125	4	1 3/4	5	341413h6	342413h6	343413h6	334.05	298.30	286.35	280.55	274.50	269.40
.4091 - .4410	.3750	6	1 3/4	5	341414h6	342414h6	343414h6	336.90	300.95	288.90	283.30	276.95	272.25
.4411 - .4720	.3750	6	1 3/4	5	341415h6	342415h6	343415h6	339.20	303.25	291.20	285.50	279.30	274.55
.4721 - .5030	.4375	6	2	6	341416h6	342416h6	343416h6	342.25	306.30	294.35	288.65	282.45	277.65
.5031 - .5340	.4375	6	2	6	341417h6	342417h6	343417h6	348.15	312.20	300.30	294.65	288.50	283.60
.5341 - .5660	.4375	6	2	6	341418h6	342418h6	343418h6	352.20	316.35	304.30	298.65	292.50	287.60
.5661 - .5970	.4375	6	2	6	341419h6	342419h6	343419h6	358.05	322.10	310.05	304.45	298.30	293.50
.5971 - .6280	.5625	6	2 1/4	6	341420h6	342420h6	343420h6	363.45	327.60	315.55	309.80	303.75	298.85
.6281 - .6590	.5625	6	2 1/4	6	341421h6	342421h6	343421h6	394.65	358.80	346.70	341.15	334.95	330.15
.6591 - .6910	.5625	6	2 1/4	6	341422h6	342422h6	343422h6	401.25	365.40	353.45	347.75	341.40	336.65
.6911 - .7220	.5625	6	2 1/4	6	341423h6	342423h6	343423h6	415.35	379.65	367.60	361.85	355.75	350.85
.7221 - .7530	.6250	6	2 1/2	6	341424h6	342424h6	343424h6	415.35	379.65	367.60	361.85	355.75	350.85
.7531 - .7840	.6250	6	2 1/2	6	341425h6	342425h6	343425h6	425.65	389.85	377.75	372.05	365.95	361.00
.7841 - .8160	.6250	6	2 1/2	6	341426h6	342426h6	343426h6	425.65	389.85	377.75	372.05	365.95	361.00
.8161 - .8470	.6250	6	2 1/2	6	341427h6	342427h6	343427h6	437.75	401.80	389.90	384.10	377.90	373.00
.8471 - .8780	.7500	6	2 3/8	6	341428h6	342428h6	343428h6	451.95	416.00	403.95	398.25	392.15	387.25
.8781 - .9090	.7500	6	2 3/8	6	341429h6	342429h6	343429h6	493.95	458.05	446.05	440.35	434.20	429.30
.9091 - .9410	.7500	8	2 3/8	6	341430h6	342430h6	343430h6	493.95	458.05	446.05	440.35	434.20	429.30
.9411 - .9720	.7500	8	2 3/8	6	341431h6	342431h6	343431h6	495.55	459.50	447.65	441.90	435.70	430.85
.9721 - 1.0030	.8750	8	2 3/4	6	341432h6	342432h6	343432h6	495.55	459.50	447.65	441.90	435.70	430.85

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	\$339.35	\$303.55	\$291.50	\$285.60	\$279.60	\$274.65
9.602 - 10.389	8	4	45	127	3414100h6	3424100h6	3434100h6	340.15	304.45	292.50	286.60	280.55	275.50
10.390 - 11.201	10	6	45	127	3414110h6	3424110h6	3434110h6	342.70	307.15	295.10	289.30	283.30	278.25
11.202 - 12.000	10	6	45	127	3414120h6	3424120h6	3434120h6	345.15	309.45	297.35	291.50	285.50	280.55
12.001 - 12.875	10	6	51	153	3414125h6	3424125h6	3434125h6	348.15	312.65	300.40	294.65	288.65	283.60
12.876 - 13.565	12	6	51	153	3414135h6	3424135h6	3434135h6	354.20	318.65	306.45	300.70	294.65	289.60
13.566 - 14.376	12	6	51	153	3414140h6	3424140h6	3434140h6	358.20	322.40	310.45	304.55	298.65	293.55
14.377 - 15.164	12	6	51	153	3414150h6	3424150h6	3434150h6	364.10	328.20	316.35	310.45	304.45	299.40
15.165 - 16.100	14	6	57	153	3414160h6	3424160h6	3434160h6	369.45	333.80	321.70	315.80	309.80	304.85
16.101 - 16.740	14	6	57	153	3414165h6	3424165h6	3434165h6	400.65	364.85	352.90	347.05	341.15	336.10
16.741 - 17.551	14	6	57	153	3414175h6	3424175h6	3434175h6	407.25	371.60	359.65	353.75	347.75	342.65
17.552 - 18.340	14	6	57	153	3414180h6	3424180h6	3434180h6	421.40	385.85	373.75	368.00	361.85	356.90
18.341 - 19.250	16	6	64	153	3414190h6	3424190h6	3434190h6	421.40	385.85	373.75	368.00	361.85	356.90
19.251 - 20.126	16	6	64	153	3414200h6	3424200h6	3434200h6	424.95	388.90	376.95	371.20	365.10	360.10
20.127 - 21.127	16	6	64	153	3414210h6	3424210h6	3434210h6	436.90	401.05	389.00	383.25	377.10	372.30
21.128 - 22.127	20	6	64	153	3414220h6	3424220h6	3434220h6	436.90	401.05	389.00	383.25	377.10	372.30
22.128 - 23.127	20	6	67	153	3414230h6	3424230h6	3434230h6	492.95	457.00	445.05	439.20	433.15	428.25
23.128 - 24.127	20	8	67	153	3414240h6	3424240h6	3434240h6	494.55	458.65	446.65	440.90	434.75	429.85
24.128 - 25.127	20	8	70	153	3414250h6	3424250h6	3434250h6	494.55	458.65	446.65	440.90	434.75	429.85

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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	\$335.55	\$299.80	\$287.75	\$282.05	\$276.00	\$270.95
.3781 - .4090	.3125	4	1 3/4	5	341613h6	342613h6	343513h6	342.25	306.30	294.35	288.65	282.45	277.65
.4091 - .4410	.3750	6	1 3/4	5	341614h6	342614h6	343514h6	348.70	312.90	300.95	295.20	289.10	284.20
.4411 - .4720	.3750	6	1 3/4	5	341615h6	342615h6	343515h6	348.70	312.90	300.95	295.20	289.10	284.20
.4721 - .5030	.4375	6	2	6	341616h6	342616h6	343516h6	348.70	312.90	300.95	295.20	289.10	284.20
.5031 - .5340	.4375	6	2	6	341617h6	342617h6	343517h6	364.70	328.90	316.95	311.30	305.05	300.25
.5341 - .5660	.4375	6	2	6	341618h6	342618h6	343518h6	368.85	333.10	320.95	315.25	309.15	304.30
.5661 - .5970	.4375	6	2	6	341619h6	342619h6	343519h6	371.70	335.75	323.75	317.95	311.80	307.15
.5971 - .6280	.5625	6	2 1/4	6	341620h6	342620h6	343520h6	371.70	335.75	323.75	317.95	311.80	307.15
.6281 - .6590	.5625	6	2 1/4	6	341621h6	342621h6	343521h6	404.25	368.40	356.20	350.60	344.40	339.55
.6591 - .6910	.5625	6	2 1/4	6	341622h6	342622h6	343522h6	404.25	368.40	356.20	350.60	344.40	339.55
.6911 - .7220	.5625	6	2 1/4	6	341623h6	342623h6	343523h6	427.10	391.05	379.10	373.50	367.15	362.50
.7221 - .7530	.6250	6	2 1/2	6	341624h6	342624h6	343524h6	427.10	391.05	379.10	373.50	367.15	362.50
.7531 - .7840	.6250	6	2 1/2	6	341625h6	342625h6	343525h6	428.55	392.50	380.65	374.80	368.70	363.85
.7841 - .8160	.6250	6	2 1/2	6	341626h6	342626h6	343526h6	428.55	392.50	380.65	374.80	368.70	363.85
.8161 - .8470	.6250	6	2 1/2	6	341627h6	342627h6	343527h6	439.15	403.35	391.30	385.65	379.40	374.50
.8471 - .8780	.7500	6	2 5/8	6	341628h6	342628h6	343528h6	453.40	417.45	405.50	399.75	393.60	388.75
.8781 - .9090	.7500	6	2 5/8	6	341629h6	342629h6	343529h6	500.45	464.50	452.45	446.70	440.60	435.70
.9091 - .9410	.7500	8	2 5/8	6	341630h6	342630h6	343530h6	510.25	474.25	462.35	456.60	450.40	445.65
.9411 - .9720	.7500	8	2 5/8	6	341631h6	342631h6	343531h6	510.25	474.25	462.35	456.60	450.40	445.65
.9721 - 1.0030	.8750	8	2 3/4	6	341632h6	342632h6	343532h6	510.25	474.25	462.35	456.60	450.40	445.65

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	\$341.65	\$305.90	\$293.80	\$287.95	\$282.05	\$276.95
9.602 - 10.389	8	4	45	127	3416100h6	3426100h6	3435100h6	348.15	312.65	300.40	294.65	288.65	283.60
10.390 - 11.201	10	6	45	127	3416110h6	3426110h6	3435110h6	354.75	319.10	307.15	301.15	295.20	290.20
11.202 - 12.000	10	6	45	127	3416120h6	3426120h6	3435120h6	354.75	319.10	307.15	301.15	295.20	290.20
12.001 - 12.875	10	6	51	153	3416125h6	3426125h6	3435125h6	354.75	319.10	307.15	301.15	295.20	290.20
12.876 - 13.565	12	6	51	153	3416135h6	3426135h6	3435135h6	370.70	335.05	323.00	317.25	311.30	306.15
13.566 - 14.376	12	6	51	153	3416140h6	3426140h6	3435140h6	374.80	339.20	327.20	321.40	315.25	310.35
14.377 - 15.164	12	6	51	153	3416150h6	3426150h6	3435150h6	377.75	341.95	329.90	324.00	317.95	313.10
15.165 - 16.100	14	6	57	153	3416160h6	3426160h6	3435160h6	377.75	341.95	329.90	324.00	317.95	313.10
16.101 - 16.740	14	6	57	153	3416165h6	3426165h6	3435165h6	410.40	374.45	362.50	356.65	350.60	345.60
16.741 - 17.551	14	6	57	153	3416175h6	3426175h6	3435175h6	410.40	374.45	362.50	356.65	350.60	345.60
17.552 - 18.340	14	6	57	153	3416180h6	3426180h6	3435180h6	433.00	397.30	385.15	379.40	373.50	368.45
18.341 - 19.250	16	6	64	153	3416190h6	3426190h6	3435190h6	433.00	397.30	385.15	379.40	373.50	368.45
19.251 - 20.126	16	6	64	153	3416200h6	3426200h6	3435200h6	427.80	391.90	379.90	374.20	368.05	363.10
20.127 - 21.127	16	6	64	153	3416210h6	3426210h6	3435210h6	438.45	402.40	390.45	384.80	378.55	373.75
21.128 - 22.127	20	6	64	153	3416220h6	3426220h6	3435220h6	438.45	402.40	390.45	384.80	378.55	373.75
22.128 - 23.127	20	6	67	153	3416230h6	3426230h6	3435230h6	499.55	463.60	451.55	445.85	439.75	434.75
23.128 - 24.127	20	8	67	153	3416240h6	3426240h6	3435240h6	509.35	473.55	461.50	455.75	449.55	444.70
24.128 - 25.127	20	8	70	153	3416250h6	3426250h6	3435250h6	509.35	473.55	461.50	455.75	449.55	444.70

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*Quantities of 15 or more: call for pricing.

Made in U.S.A.

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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	\$339.85	\$304.05	\$292.05	\$286.35	\$280.25	\$275.25
.3781 .4090	.3125	4	1 ¾	5	341113h6	341313h6	341513h6	340.70	304.70	292.80	287.05	280.85	276.10
.4091 .4410	.3750	6	1 ¾	5	341114h6	341314h6	341514h6	343.45	307.50	295.55	289.80	283.70	278.80
.4411 .4720	.3750	6	1 ¾	5	341115h6	341315h6	341515h6	346.00	310.05	298.10	292.40	286.20	281.30
.4721 .5030	.4375	6	2	6	341116h6	341316h6	341516h6	356.80	320.80	308.80	303.05	296.95	292.05
.5031 .5340	.4375	6	2	6	341117h6	341317h6	341517h6	367.15	331.30	319.15	313.50	307.35	302.45
.5341 .5660	.4375	6	2	6	341118h6	341318h6	341518h6	367.15	331.30	319.15	313.50	307.35	302.45
.5661 .5970	.4375	6	2	6	341119h6	341319h6	341519h6	378.90	342.85	330.95	325.15	319.00	314.20
.5971 .6280	.5625	6	2 ¼	6	341120h6	341320h6	341520h6	378.90	342.85	330.95	325.15	319.00	314.20
.6281 .6590	.5625	6	2 ¼	6	341121h6	341321h6	341521h6	418.75	382.85	370.85	365.15	358.95	354.05
.6591 .6910	.5625	6	2 ¼	6	341122h6	341322h6	341522h6	418.75	382.85	370.85	365.15	358.95	354.05
.6911 .7220	.5625	6	2 ¼	6	341123h6	341323h6	341523h6	433.75	397.80	385.85	380.10	374.00	369.05
.7221 .7530	.6250	6	2 ½	6	341124h6	341324h6	341524h6	411.40	375.50	363.45	357.80	351.60	346.70
.7531 .7840	.6250	6	2 ½	6	341125h6	341325h6	341525h6	461.90	425.95	414.00	408.30	402.10	397.30
.7841 .8160	.6250	6	2 ½	6	341126h6	341326h6	341526h6	466.80	430.95	418.90	413.20	407.00	402.20
.8161 .8470	.6250	6	2 ½	6	341127h6	341327h6	341527h6	474.15	438.35	426.25	420.60	414.35	409.55
.8471 .8780	.7500	6	2 ¾	6	341128h6	341328h6	341528h6	496.25	460.35	448.35	442.65	436.45	431.55
.8781 .9090	.7500	6	2 ¾	6	341129h6	341329h6	341529h6	521.55	485.60	473.60	467.85	461.75	456.75
.9091 .9410	.7500	8	2 ¾	6	341130h6	341330h6	341530h6	542.90	506.95	494.95	489.35	483.05	478.20
.9411 .9720	.7500	8	2 ¾	6	341131h6	341331h6	341531h6	544.30	508.40	496.40	490.70	484.50	479.70
.9721 1.0030	.8750	8	2 ¾	6	341132h6	341332h6	341532h6	545.15	509.10	497.15	491.50	485.25	480.45

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	\$339.85	\$304.05	\$292.05	\$286.35	\$280.25	\$275.25
9.602 - 10.389	8	4	45	127	3411100h6	3413100h6	3415100h6	340.70	304.70	292.80	287.05	280.85	276.10
10.390 - 11.201	10	6	45	127	3411110h6	3413110h6	3415110h6	343.45	307.50	295.55	289.80	283.70	278.80
11.202 - 12.000	10	6	45	127	3411120h6	3413120h6	3415120h6	356.80	320.80	308.80	303.05	296.95	292.05
12.001 - 12.875	10	6	51	153	3411125h6	3413125h6	3415125h6	367.15	331.30	319.15	313.50	307.35	302.45
12.876 - 13.565	12	6	51	153	3411135h6	3413135h6	3415135h6	367.15	331.30	319.15	313.50	307.35	302.45
13.566 - 14.376	12	6	51	153	3411140h6	3413140h6	3415140h6	367.15	331.30	319.15	313.50	307.35	302.45
14.377 - 15.164	12	6	51	153	3411150h6	3413150h6	3415150h6	378.90	342.85	330.95	325.15	319.00	314.20
15.165 - 16.100	14	6	57	153	3411160h6	3413160h6	3415160h6	418.75	382.85	370.85	365.15	358.95	354.05
16.101 - 16.740	14	6	57	153	3411165h6	3413165h6	3415165h6	418.75	382.85	370.85	365.15	358.95	354.05
16.741 - 17.551	14	6	57	153	3411175h6	3413175h6	3415175h6	418.75	382.85	370.85	365.15	358.95	354.05
17.552 - 18.340	14	6	57	153	3411180h6	3413180h6	3415180h6	433.75	397.80	385.85	380.10	374.00	369.05
18.341 - 19.250	16	6	64	153	3411190h6	3413190h6	3415190h6	461.90	425.95	414.00	408.30	402.10	397.30
19.251 - 20.126	16	6	64	153	3411200h6	3413200h6	3415200h6	466.80	430.95	418.90	413.20	407.00	402.20
20.127 - 21.127	16	6	64	153	3411210h6	3413210h6	3415210h6	474.15	438.35	426.25	420.60	414.35	409.55
21.128 - 22.127	20	6	64	153	3411220h6	3413220h6	3415220h6	496.25	460.35	448.35	442.65	436.45	431.55
22.128 - 23.127	20	6	67	153	3411230h6	3413230h6	3415230h6	542.90	506.95	494.95	489.35	483.05	478.20
23.128 - 24.127	20	8	67	153	3411240h6	3413240h6	3415240h6	544.30	508.40	496.40	490.70	484.50	479.70
24.128 - 25.127	20	8	70	153	3411250h6	3413250h6	3415250h6	545.15	509.10	497.15	491.50	485.25	480.45

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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	\$404.55	\$368.55	\$356.65	\$350.85	\$344.70	\$339.70
.3781 - .4090	.3125	4	1 ¾	5	342713h6	342813h6	342913h6	405.80	370.00	357.95	352.20	346.05	341.15
.4091 - .4410	.3750	6	1 ¾	5	342714h6	342814h6	342914h6	408.95	372.90	361.00	355.25	349.05	344.25
.4411 - .4720	.3750	6	1 ¾	5	342715h6	342815h6	342915h6	412.00	375.95	364.10	358.25	352.15	347.20
.4721 - .5030	.4375	6	2	6	342716h6	342816h6	342916h6	416.30	380.35	368.40	362.65	356.40	351.60
.5031 - .5340	.4375	6	2	6	342717h6	342817h6	342917h6	423.50	387.45	375.60	369.85	363.65	358.80
.5341 - .5660	.4375	6	2	6	342718h6	342818h6	342918h6	428.65	392.75	380.70	374.95	368.75	364.00
.5661 - .5970	.4375	6	2	6	342719h6	342819h6	342919h6	436.05	400.20	388.15	382.55	376.25	371.45
.5971 - .6280	.5625	6	2 ¼	6	342720h6	342820h6	342920h6	442.80	406.85	394.90	389.15	383.00	378.10
.6281 - .6590	.5625	6	2 ¼	6	342721h6	342821h6	342921h6	482.60	446.65	434.70	429.00	422.80	417.95
.6591 - .6910	.5625	6	2 ¼	6	342722h6	342822h6	342922h6	491.10	455.15	443.10	437.45	431.30	426.40
.6911 - .7220	.5625	6	2 ¼	6	342723h6	342823h6	342923h6	499.90	463.95	452.00	446.25	440.10	435.30
.7221 - .7530	.6250	6	2 ½	6	342724h6	342824h6	342924h6	509.05	473.15	461.15	455.40	449.25	444.35
.7531 - .7840	.6250	6	2 ½	6	342725h6	342825h6	342925h6	516.45	480.60	468.55	462.90	456.70	451.85
.7841 - .8160	.6250	6	2 ½	6	342726h6	342826h6	342926h6	521.90	486.05	474.00	468.35	462.20	457.30
.8161 - .8470	.6250	6	2 ½	6	342727h6	342827h6	342927h6	530.05	494.15	482.20	476.45	470.25	465.40
.8471 - .8780	.7500	6	2 ¾	6	342728h6	342828h6	342928h6	555.25	519.30	507.25	501.60	495.45	490.50
.8781 - .9090	.7500	6	2 ¾	6	342729h6	342829h6	342929h6	583.75	547.80	535.85	530.20	523.90	519.15
.9091 - .9410	.7500	8	2 ¾	6	342730h6	342830h6	342930h6	608.60	572.80	560.70	554.95	548.80	544.00
.9411 - .9720	.7500	8	2 ¾	6	342731h6	342831h6	342931h6	609.90	574.10	562.00	556.35	550.20	545.30
.9721 - 1.0030	.8750	8	2 ¾	6	342732h6	342832h6	342932h6	610.65	574.70	562.75	557.00	550.90	546.00

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	\$404.55	\$368.55	\$356.65	\$350.85	\$344.70	\$339.70
9.602 10.389	8	4	45	127	3427100h6	3428100h6	3429100h6	405.80	370.00	357.95	352.20	346.05	341.15
10.390 11.201	10	6	45	127	3427110h6	3428110h6	3429110h6	408.95	372.90	361.00	355.25	349.05	344.25
11.202 12.000	10	6	45	127	3427120h6	3428120h6	3429120h6	416.30	380.35	368.40	362.65	356.40	351.60
12.001 12.875	10	6	51	153	3427125h6	3428125h6	3429125h6	423.50	387.45	375.60	369.85	363.65	358.80
12.876 13.565	12	6	51	153	3427135h6	3428135h6	3429135h6	428.65	392.75	380.70	374.95	368.75	364.00
13.566 14.376	12	6	51	153	3427140h6	3428140h6	3429140h6	428.65	392.75	380.70	374.95	368.75	364.00
14.377 15.164	12	6	51	153	3427150h6	3428150h6	3429150h6	436.05	400.20	388.15	382.55	376.25	371.45
15.165 16.100	14	6	57	153	3427160h6	3428160h6	3429160h6	482.60	446.65	434.70	429.00	422.80	417.95
16.101 16.740	14	6	57	153	3427165h6	3428165h6	3429165h6	491.10	455.15	443.10	437.45	431.30	426.40
16.741 17.551	14	6	57	153	3427175h6	3428175h6	3429175h6	491.10	455.15	443.10	437.45	431.30	426.40
17.552 18.340	14	6	57	153	3427180h6	3428180h6	3429180h6	499.90	463.95	452.00	446.25	440.10	435.30
18.341 19.250	16	6	64	153	3427190h6	3428190h6	3429190h6	516.45	480.60	468.55	462.90	456.70	451.85
19.251 20.126	16	6	64	153	3427200h6	3428200h6	3429200h6	521.90	486.05	474.00	468.35	462.20	457.30
20.127 21.127	16	6	64	153	3427210h6	3428210h6	3429210h6	530.05	494.15	482.20	476.45	470.25	465.40
21.128 22.127	20	6	64	153	3427220h6	3428220h6	3429220h6	555.25	519.30	507.25	501.60	495.45	490.50
22.128 23.127	20	6	67	153	3427230h6	3428230h6	3429230h6	608.60	572.80	560.70	554.95	548.80	544.00
23.128 24.127	20	8	67	153	3427240h6	3428240h6	3429240h6	609.90	574.10	562.00	556.35	550.20	545.30
24.128 25.127	20	8	70	153	3427250h6	3428250h6	3429250h6	610.65	574.70	562.75	557.00	550.90	546.00

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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	\$190.30	.1770 - .2040	\$247.60	\$219.05	\$209.35	\$204.75	\$199.85	\$195.85
.2031	13/64	.1805	4	1 1/4*	5	34162031	34262031	34352031	190.30	-	-	-	-	-	-	-
.2188	7/32	.2075	4	1 1/4*	5	341607	342607	343507	190.30	.2041 - .2210	247.60	219.05	209.35	204.75	199.85	195.85
.2344	15/64	.2265	4	1 1/2*	6	34162344	34262344	34352344	190.30	.2211 - .2380	247.60	219.05	209.35	204.75	199.85	195.85
.2500	1/4	.2405	4	1 1/2*	6	341608	342608	343508	190.30	.2381 - .2530	247.60	219.05	209.35	204.75	199.85	195.85
.2656	17/64	.2485	4	1 1/2*	6	34162656	34262656	34352656	194.70	-	-	-	-	-	-	-
.2812	9/32	.2485	4	1 1/2*	6	341609	342609	343509	194.70	.2531 - .2840	252.05	223.30	213.60	209.00	204.10	200.35
.2969	19/64	.2792	4	1 1/2	6	34162969	34262969	34352969	211.15	-	-	-	-	-	-	-
.3125	5/16	.2792	4	1 1/2	6	341610	342610	343510	211.15	.2841 - .3150	268.60	239.75	230.10	225.60	220.75	216.85
.3281	21/64	.2792	4	1 1/2	6	34163281	34263281	34353281	211.15	-	-	-	-	-	-	-
.3438	11/32	.2792	4	1 1/2	6	341611	342611	343511	211.15	.3151 - .3470	268.60	239.75	230.10	225.60	220.75	216.85
.3594	23/64	.3105	4	1 3/4	7	34163594	34263594	34353594	211.15	-	-	-	-	-	-	-
.3750	3/8	.3105	4	1 3/4	7	341612	342612	343512	211.15	.3471 - .3780	268.60	239.75	230.10	225.60	220.75	216.85
.3906	25/64	.3105	4	1 3/4	7	34163906	34263906	34353906	216.40	-	-	-	-	-	-	-
.4062	13/32	.3105	4	1 3/4	7	341613	342613	343513	216.40	.3781 - .4090	273.80	245.15	235.55	230.85	226.05	222.05
.4219	27/64	.3730	6	1 3/4	7	34164219	34264219	34354219	221.65	-	-	-	-	-	-	-
.4375	7/16	.3730	6	1 3/4	7	341614	342614	343514	221.65	.4091 - .4410	279.00	250.35	240.85	236.10	231.35	227.35
.4531	29/64	.3730	6	1 3/4	7	34164531	34264531	34354531	221.65	-	-	-	-	-	-	-
.4688	15/32	.3730	6	1 3/4	7	341615	342615	343515	221.65	.4411 - .4720	279.00	250.35	240.85	236.10	231.35	227.35
.4844	31/64	.4355	6	2	8	34164844	34264844	34354844	221.65	-	-	-	-	-	-	-
.5000	1/2	.4355	6	2	8	341616	342616	343516	221.65	.4721 - .5030	279.00	250.35	240.85	236.10	231.35	227.35
.5156	33/64	.4355	6	2	8	34165156	34265156	34355156	234.45	-	-	-	-	-	-	-
.5312	17/32	.4355	6	2	8	341617	342617	343517	234.45	.5031 - .5340	291.75	263.15	253.55	248.95	244.00	240.15
.5625	9/16	.4355	6	2	8	341618	342618	343518	237.85	.5341 - .5660	295.10	266.50	256.80	252.20	247.25	243.35
.5938	19/32	.4355	6	2	8	341619	342619	343519	240.00	.5661 - .5970	297.25	268.65	259.00	254.40	249.50	245.60
.6250	5/8	.5615	6	2 1/4	9	341620	342620	343520	240.00	.5971 - .6280	297.25	268.65	259.00	254.40	249.50	245.60
.6562	21/32	.5615	6	2 1/4	9	341621	342621	343521	266.00	.6281 - .6590	323.45	294.65	285.00	280.45	275.50	271.70
.6875	11/16	.5615	6	2 1/4	9	341622	342622	343522	266.00	.6591 - .6910	323.45	294.65	285.00	280.45	275.50	271.70
.7188	23/32	.5615	6	2 1/4	9	341623	342623	343523	284.30	.6911 - .7220	341.65	312.90	303.30	298.80	293.70	289.90
.7500	3/4	.6245	6	2 1/2	9 1/2	341624	342624	343524	284.30	.7221 - .7530	341.65	312.90	303.30	298.80	293.70	289.90
.7812	25/32	.6245	6	2 1/2	9 1/2	341625	342625	343525	284.30	.7531 - .7840	341.65	312.90	303.30	298.80	293.70	289.90
.8125	13/16	.6245	6	2 1/2	9 1/2	341626	342626	343526	284.30	.7841 - .8160	341.65	312.90	303.30	298.80	293.70	289.90
.8438	27/32	.6245	6	2 1/2	9 1/2	341627	342627	343527	292.90	.8161 - .8470	350.15	321.55	311.80	307.30	302.40	298.40
.8750	7/8	.7495	6	2 5/8	10	341628	342628	343528	304.00	.8471 - .8780	363.45	333.60	323.60	318.85	313.80	309.75
.9062	29/32	.7495	6	2 5/8	10	341629	342629	343529	341.25	.8781 - .9090	400.65	370.90	361.00	356.20	351.00	347.05
.9375	15/16	.7495	8	2 5/8	10	341630	342630	343530	349.30	.9091 - .9410	408.60	378.90	368.85	364.15	358.95	355.05
.9688	31/32	.7495	8	2 5/8	10	341631	342631	343531	349.30	.9411 - .9720	408.60	378.90	368.85	364.15	358.95	355.05
1.0000	1	.8745	8	2 3/4	10 1/2	341632	342632	343532	349.30	.9721 - 1.0030	408.60	378.90	368.85	364.15	358.95	355.05
1.0625	1 1/16	.8745	8	2 3/4	10 1/2	341634	342634	343534	369.20	1.0031 - 1.0660	428.80	399.10	389.10	384.30	379.20	375.30
1.1250	1 1/8	.8745	8	2 7/8	11	341636	342636	343536	370.85	1.0661 - 1.1280	430.40	400.50	390.45	385.80	380.70	376.65
1.1875	1 3/16	.9995	8	2 7/8	11	341638	342638	343538	386.15	1.1281 - 1.1905	445.70	415.85	405.70	401.20	396.05	392.05
1.2500	1 1/4	.9995	8	3	11 1/2	341640	342640	343540	391.15	1.1906 - 1.2530	450.80	420.90	410.90	406.25	401.20	397.20
1.3125	1 5/16	.9995	8	3	11 1/2	341642	342642	343542	402.40	1.2531 - 1.3155	461.95	432.10	422.20	417.30	412.30	408.30
1.3750	1 3/8	.9995	8	3 1/4	12	341644	342644	343544	418.75	1.3156 - 1.3780	478.20	448.35	438.50	433.70	428.65	424.50
1.4375	1 7/16	.9995	8	3 1/4	12	341646	342646	343546	431.75	1.3781 - 1.4405	491.40	461.50	451.60	446.85	441.75	437.75
1.5000	1 1/2	1.2495	8	3 1/2	12 1/2	341648	342648	343548	446.25	1.4406 - 1.5030	505.80	476.00	466.05	461.30	456.20	452.15
1.5625	1 5/8	1.2495	8	3 1/2	12 1/2	341650	342650	343550	501.75	1.5031 - 1.5660	558.45	530.05	520.55	516.10	511.10	507.35
1.6250	1 5/8	1.2495	8	3 1/2	13	341652	342652	343552	551.65	1.5661 - 1.6280	608.35	580.10	570.45	566.00	561.10	557.30
1.6875	1 11/16	1.2495	8	3 1/2	13	341654	342654	343554	561.25	1.6281 - 1.6910	617.95	589.60	580.10	575.55	570.60	566.90
1.7500	1 3/4	1.2495	10	3 1/2	13 1/2	341656	342656	343556	613.35	1.6911 - 1.7530	670.05	641.70	632.15	627.70	622.80	618.95
1.8125	1 13/16	1.4995	10	3 1/2	13 1/2	341658	342658	343558	638.65	1.7531 - 1.8160	695.30	667.00	657.45	652.90	648.00	644.30
1.8750	1 7/8	1.4995	10	3 1/2	14	341660	342660	343560	672.45	1.8161 - 1.8780	729.15	700.75	691.25	686.80	681.80	678.05
1.9375	1 15/16	1.4995	10	3 1/2	14	341662	342662	343562	715.30	1.8781 - 1.9410	772.00	743.75	734.10	729.65	724.75	720.95
2.0000	2	1.4995	12	3 1/2	14	341664	342664	343564	741.30	1.9411 - 2.0030	798.00	769.65	760.15	755.60	750.65	746.95

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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	\$209.35	4.494 - 4.696	\$252.50	\$223.90	\$214.30	\$209.65	\$204.75	\$200.75	\$195.25
5.0	.1969	.1805	4	1 1/4*	5	3416050	3426050	3435050	209.35	4.697 - 5.182	252.50	223.90	214.30	209.65	204.75	200.75	195.25
5.5	.2165	.2075	4	1 1/4*	5	3416055	3426055	3435055	209.35	5.183 - 5.613	252.50	223.90	214.30	209.65	204.75	200.75	195.25
6.0	.2362	.2265	4	1 1/2*	6	3416060	3426060	3435060	209.35	5.614 - 6.045	252.50	223.90	214.30	209.65	204.75	200.75	195.25
-	-	.2405	4	1 1/2*	6	3416063	3426063	3435063	-	6.046 - 6.426	252.50	223.90	214.30	209.65	204.75	200.75	195.25
6.5	.2559	.2485	4	1 1/2*	6	3416065	3426065	3435065	213.60	6.427 - 7.214	256.80	228.10	218.55	213.85	209.00	205.05	199.65
7.0	.2756	.2485	4	1 1/2*	6	3416070	3426070	3435070	213.60	-	-	-	-	-	-	-	-
7.5	.2953	.2792	4	1 1/2	6	3416075	3426075	3435075	230.10	7.215 - 8.001	273.25	244.65	235.10	230.50	225.60	221.50	216.15
8.0	.3150	.2792	4	1 1/2	6	3416080	3426080	3435080	230.10	-	-	-	-	-	-	-	-
8.5	.3346	.2792	4	1 1/2	6	3416085	3426085	3435085	230.10	8.002 - 8.814	273.25	244.65	235.10	230.50	225.60	221.50	216.15
9.0	.3543	.3105	4	1 3/4	7	3416090	3426090	3435090	230.10	8.815 - 9.601	273.25	244.65	235.10	230.50	225.60	221.50	216.15
9.5	.3740	.3105	4	1 3/4	7	3416095	3426095	3435095	230.10	-	-	-	-	-	-	-	-
10.0	.3937	.3105	4	1 3/4	7	3416100	3426100	3435100	235.55	9.602 - 10.389	278.45	250.10	240.30	235.70	230.85	226.80	221.35
10.5	.4134	.3730	6	1 3/4	7	3416105	3426105	3435105	240.85	10.390 - 11.201	283.75	255.40	245.60	241.00	236.10	232.15	226.65
11.0	.4331	.3730	6	1 3/4	7	3416110	3426110	3435110	240.85	-	-	-	-	-	-	-	-
11.5	.4528	.3730	6	1 3/4	7	3416115	3426115	3435115	240.85	11.202 - 11.989	283.75	255.40	245.60	241.00	236.10	232.15	226.65
12.0	.4724	.4355	6	2	8	3416120	3426120	3435120	240.85	11.990 - 12.776	283.75	255.40	245.60	241.00	236.10	232.15	226.65
12.5	.4921	.4355	6	2	8	3416125	3426125	3435125	240.85	-	-	-	-	-	-	-	-
13.0	.5118	.4355	6	2	8	3416130	3426130	3435130	253.55	12.777 - 13.564	296.65	267.95	258.45	253.80	248.95	244.90	239.45
13.5	.5315	.4355	6	2	8	3416135	3426135	3435135	253.55	-	-	-	-	-	-	-	-
14.0	.5512	.4355	6	2	8	3416140	3426140	3435140	256.80	13.565 - 14.376	299.95	271.35	261.75	257.10	252.20	248.35	242.75
14.5	.5709	.4355	6	2	8	3416145	3426145	3435145	259.00	14.377 - 15.164	302.25	273.50	263.85	259.15	254.40	250.40	244.90
15.0	.5906	.4355	6	2	8	3416150	3426150	3435150	259.00	-	-	-	-	-	-	-	-
15.5	.6102	.5615	6	2 1/4	9	3416155	3426155	3435155	259.00	15.165 - 15.951	302.25	273.50	263.85	259.15	254.40	250.40	244.90
16.0	.6299	.5615	6	2 1/4	9	3416160	3426160	3435160	285.00	15.952 - 16.739	328.15	299.60	289.90	285.30	280.45	276.50	270.90
16.5	.6496	.5615	6	2 1/4	9	3416165	3426165	3435165	285.00	-	-	-	-	-	-	-	-
17.0	.6693	.5615	6	2 1/4	9	3416170	3426170	3435170	285.00	16.740 - 17.551	328.15	299.60	289.90	285.30	280.45	276.50	270.90
17.5	.6890	.5615	6	2 1/4	9	3416175	3426175	3435175	285.00	-	-	-	-	-	-	-	-
18.0	.7087	.6245	6	2 1/2	9 1/2	3416180	3426180	3435180	303.30	17.552 - 18.339	346.45	317.70	308.20	303.55	298.80	294.80	289.35
18.5	.7283	.6245	6	2 1/2	9 1/2	3416185	3426185	3435185	303.30	18.340 - 19.126	346.45	317.70	308.20	303.55	298.80	294.80	289.35
19.0	.7480	.6245	6	2 1/2	9 1/2	3416190	3426190	3435190	303.30	-	-	-	-	-	-	-	-
19.5	.7677	.6245	6	2 1/2	9 1/2	3416195	3426195	3435195	303.30	19.127 - 19.914	346.45	317.70	308.20	303.55	298.80	294.80	289.35
20.0	.7874	.6245	6	2 1/2	9 1/2	3416200	3426200	3435200	303.30	19.915 - 20.726	346.45	317.70	308.20	303.55	298.80	294.80	289.35
20.5	.8071	.6245	6	2 1/2	9 1/2	3416205	3426205	3435205	303.30	-	-	-	-	-	-	-	-
21.0	.8268	.6245	6	2 1/2	9 1/2	3416210	3426210	3435210	311.80	20.727 - 21.514	355.05	326.40	316.85	312.10	307.30	303.30	297.85
21.5	.8465	.6245	6	2 1/2	9 1/2	3416215	3426215	3435215	311.80	-	-	-	-	-	-	-	-
22.0	.8661	.7495	6	2 5/8	10	3416220	3426220	3435220	311.80	21.515 - 22.301	355.05	326.40	316.85	312.10	307.30	303.30	297.85
22.5	.8858	.7495	6	2 5/8	10	3416225	3426225	3435225	361.00	22.302 - 23.089	405.65	375.95	366.10	361.15	356.20	352.05	346.45
23.0	.9055	.7495	6	2 5/8	10	3416230	3426230	3435230	361.00	-	-	-	-	-	-	-	-
23.5	.9252	.7495	8	2 5/8	10	3416235	3426235	3435235	368.85	23.090 - 23.901	413.60	383.95	374.00	369.05	364.15	359.95	354.30
24.0	.9449	.7495	8	2 5/8	10	3416240	3426240	3435240	368.85	23.902 - 24.689	413.60	383.95	374.00	369.05	364.15	359.95	354.30
24.5	.9646	.7495	8	2 5/8	10	3416245	3426245	3435245	368.85	-	-	-	-	-	-	-	-
25.0	.9843	.8745	8	2 3/4	10 1/2	3416250	3426250	3435250	368.85	24.690 - 25.476	413.60	383.95	374.00	369.05	364.15	359.95	354.30
25.5	1.0039	.8745	8	2 3/4	10 1/2	3416255	3426255	3435255	389.10	25.477 - 27.076	433.75	404.20	394.20	389.25	384.30	380.10	374.45
26.0	1.0236	.8745	8	2 3/4	10 1/2	3416260	3426260	3435260	389.10	-	-	-	-	-	-	-	-
27.0	1.0630	.8745	8	2 3/4	10 1/2	3416270	3426270	3435270	389.10	-	-	-	-	-	-	-	-
28.0	1.1024	.8745	8	2 7/8	11	3416280	3426280	3435280	390.55	27.077 - 28.651	435.30	405.55	395.65	390.85	385.80	381.70	375.90
29.0	1.1417	.9995	8	2 7/8	11	3416290	3426290	3435290	405.70	28.652 - 30.239	450.70	420.90	410.90	406.10	401.20	396.95	391.15
30.0	1.1811	.9995	8	2 7/8	11	3416300	3426300	3435300	405.70	-	-	-	-	-	-	-	-
31.0	1.2205	.9995	8	3	11 1/2	3416310	3426310	3435310	410.90	30.240 - 31.826	455.70	426.00	416.15	411.15	406.25	402.10	396.35
32.0	1.2598	.9995	8	3	11 1/2	3416320	3426320	3435320	422.20	31.827 - 33.414	466.90	437.15	427.30	422.40	417.30	413.30	407.55
33.0	1.2992	.9995	8	3	11 1/2	3416330	3426330	3435330	422.20	-	-	-	-	-	-	-	-
34.0	1.3386	.9995	8	3 1/4	12	3416340	3426340	3435340	438.50	33.415 - 35.001	483.20	453.45	443.55	438.65	433.70	429.55	423.85
35.0	1.3780	.9995	8	3 1/4	12	3416350	3426350	3435350	438.50	-	-	-	-	-	-	-	-
36.0	1.4173	.9995	8	3 1/4	12	3416360	3426360	3435360	451.60	35.002 - 36.589	496.30	466.55	456.70	451.85	446.85	442.75	437.00
37.0	1.4567	1.2495	8	3 1/2	12 1/2	3416370	3426370	3435370	466.05	36.590 - 38.176	510.80	481.15	471.15	466.35	461.30	457.20	451.40
38.0	1.4961	1.2495	8	3 1/2	12 1/2	3416380	3426380	3435380	466.05	-	-	-	-	-	-	-	-

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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	\$183.40	.1770 - .2040	\$240.85	\$212.00	\$202.35	\$197.85	\$192.95	\$189.10
.2031	13/64	.1805	4	1 1/4*	5	34142031	34242031	34342031	183.40	-	-	-	-	-	-	-
.2188	7/32	.2075	4	1 1/4*	5	341407	342407	343407	183.40	.2041 - .2210	240.85	212.00	202.35	197.85	192.95	189.10
.2344	15/64	.2265	4	1 1/2*	6	34142344	34242344	34342344	183.40	.2211 - .2380	240.85	212.00	202.35	197.85	192.95	189.10
.2500	1/4	.2405	4	1 1/2*	6	341408	342408	343408	183.40	.2381 - .2530	240.85	212.00	202.35	197.85	192.95	189.10
.2656	17/64	.2485	4	1 1/2*	6	34142656	34242656	34342656	194.70	-	-	-	-	-	-	-
.2812	9/32	.2485	4	1 1/2*	6	341409	342409	343409	194.70	.2531 - .2840	252.05	223.30	213.60	209.00	204.10	200.35
.2969	19/64	.2792	4	1 1/2	6	34142969	34242969	34342969	205.65	-	-	-	-	-	-	-
.3125	5/16	.2792	4	1 1/2	6	341410	342410	343410	205.65	.2841 - .3150	263.00	234.15	224.60	219.85	215.10	211.15
.3281	21/64	.2792	4	1 1/2	6	34143281	34243281	34343281	207.20	-	-	-	-	-	-	-
.3438	11/32	.2792	4	1 1/2	6	341411	342411	343411	207.20	.3151 - .3470	264.50	235.80	226.25	221.50	216.70	212.95
.3594	23/64	.3105	4	1 3/4	7	34143594	34243594	34343594	209.35	-	-	-	-	-	-	-
.3750	3/8	.3105	4	1 3/4	7	341412	342412	343412	209.35	.3471 - .3780	266.65	237.90	228.35	223.65	218.75	215.00
.3906	25/64	.3105	4	1 3/4	7	34143906	34243906	34343906	210.00	-	-	-	-	-	-	-
.4062	13/32	.3105	4	1 3/4	7	341413	342413	343413	210.00	.3781 - .4090	267.30	238.70	229.05	224.45	219.55	215.55
.4219	27/64	.3730	6	1 3/4	7	34144219	34244219	34344219	212.10	-	-	-	-	-	-	-
.4375	7/16	.3730	6	1 3/4	7	341414	342414	343414	212.10	.4091 - .4410	269.40	240.85	231.00	226.60	221.50	217.75
.4531	29/64	.3730	6	1 3/4	7	34144531	34244531	34344531	213.95	-	-	-	-	-	-	-
.4688	15/32	.3730	6	1 3/4	7	341415	342415	343415	213.95	.4411 - .4720	271.35	242.60	232.95	228.40	223.45	219.60
.4844	31/64	.4355	6	2	8	34144844	34244844	34344844	216.40	-	-	-	-	-	-	-
.5000	1/2	.4355	6	2	8	341416	342416	343416	216.40	.4721 - .5030	273.80	245.15	235.55	230.85	226.05	222.05
.5156	33/64	.4355	6	2	8	34145156	34245156	34345156	221.30	-	-	-	-	-	-	-
.5312	17/32	.4355	6	2	8	341417	342417	343417	221.30	.5031 - .5340	278.45	249.80	240.20	235.70	230.80	226.80
.5625	9/16	.4355	6	2	8	341418	342418	343418	224.45	.5341 - .5660	281.75	252.95	243.35	238.90	233.95	230.05
.5938	19/32	.4355	6	2	8	341419	342419	343419	229.10	.5661 - .5970	286.45	257.70	248.10	243.60	238.70	234.80
.6250	5/8	.5615	6	2 1/4	9	341420	342420	343420	233.50	.5971 - .6280	290.80	262.00	252.50	247.75	243.00	239.05
.6562	21/32	.5615	6	2 1/4	9	341421	342421	343421	258.45	.6281 - .6590	315.70	287.00	277.30	272.95	267.90	264.05
.6875	11/16	.5615	6	2 1/4	9	341422	342422	343422	263.70	.6591 - .6910	320.95	292.40	282.60	278.15	273.20	269.25
.7188	23/32	.5615	6	2 1/4	9	341423	342423	343423	275.00	.6911 - .7220	332.30	303.75	294.10	289.50	284.60	280.60
.7500	3/4	.6245	6	2 1/2	9 1/2	341424	342424	343424	275.00	.7221 - .7530	332.30	303.75	294.10	289.50	284.60	280.60
.7812	25/32	.6245	6	2 1/2	9 1/2	341425	342425	343425	283.20	.7531 - .7840	340.50	311.75	302.25	297.70	292.65	288.75
.8125	13/16	.6245	6	2 1/2	9 1/2	341426	342426	343426	283.20	.7841 - .8160	340.50	311.75	302.25	297.70	292.65	288.75
.8438	27/32	.6245	6	2 1/2	9 1/2	341427	342427	343427	292.90	.8161 - .8470	350.15	321.55	311.80	307.30	302.40	298.40
.8750	7/8	.7495	6	2 5/8	10	341428	342428	343428	304.00	.8471 - .8780	363.45	333.60	323.60	318.85	313.80	309.75
.9062	29/32	.7495	6	2 5/8	10	341429	342429	343429	337.50	.8781 - .9090	396.95	367.15	357.10	352.50	347.30	343.40
.9375	15/16	.7495	8	2 5/8	10	341430	342430	343430	337.50	.9091 - .9410	396.95	367.15	357.10	352.50	347.30	343.40
.9688	31/32	.7495	8	2 5/8	10	341431	342431	343431	338.80	.9411 - .9720	398.25	368.55	358.65	353.80	348.60	344.70
1.0000	1	.8745	8	2 3/4	10 1/2	341432	342432	343432	338.80	.9721 - 1.0030	398.25	368.55	358.65	353.80	348.60	344.70
1.0625	1 1/16	.8745	8	2 3/4	10 1/2	341434	342434	343434	348.45	1.0031 - 1.0660	407.95	378.10	368.15	363.45	358.20	354.30
1.1250	1 1/8	.8745	8	2 7/8	11	341436	342436	343436	360.55	1.0661 - 1.1280	419.95	390.25	380.10	375.45	370.30	366.25
1.1875	1 3/16	.9995	8	2 7/8	11	341438	342438	343438	386.15	1.1281 - 1.1905	445.70	415.85	405.70	401.20	396.05	392.05
1.2500	1 1/4	.9995	8	3	11 1/2	341440	342440	343440	391.15	1.1906 - 1.2530	450.80	420.90	410.90	406.25	401.20	397.20
1.3125	1 3/16	.9995	8	3	11 1/2	341442	342442	343442	402.40	1.2531 - 1.3155	461.95	432.10	422.20	417.30	412.30	408.30
1.3750	1 3/8	.9995	8	3 1/4	12	341444	342444	343444	418.75	1.3156 - 1.3780	478.20	448.35	438.50	433.70	428.65	424.50
1.4375	1 7/16	.9995	8	3 1/4	12	341446	342446	343446	431.75	1.3781 - 1.4405	491.40	461.50	451.60	446.85	441.75	437.75
1.5000	1 1/2	1.2495	8	3 1/2	12 1/2	341448	342448	343448	446.25	1.4406 - 1.5030	505.80	476.00	466.05	461.30	456.20	452.15
1.5625	1 5/8	1.2495	8	3 1/2	12 1/2	341450	342450	343450	475.15	1.5031 - 1.5660	531.85	503.50	494.00	489.50	484.50	480.85
1.6250	1 5/8	1.2495	8	3 1/2	13	341452	342452	343452	520.20	1.5661 - 1.6280	576.80	548.50	539.10	534.40	529.55	525.80
1.6875	1 11/16	1.2495	8	3 1/2	13	341454	342454	343454	531.20	1.6281 - 1.6910	587.90	559.60	550.10	545.50	540.60	536.85
1.7500	1 3/4	1.2495	10	3 1/2	13 1/2	341456	342456	343456	581.75	1.6911 - 1.7530	638.50	610.15	600.65	596.10	591.10	587.45
1.8125	1 13/16	1.4995	10	3 1/2	13 1/2	341458	342458	343458	605.55	1.7531 - 1.8160	662.25	633.90	624.40	619.85	614.90	611.20
1.8750	1 7/8	1.4995	10	3 1/2	14	341460	342460	343460	639.25	1.8161 - 1.8780	696.00	667.55	658.10	653.60	648.70	644.85
1.9375	1 15/16	1.4995	10	3 1/2	14	341462	342462	343462	677.75	1.8781 - 1.9410	734.45	706.10	696.60	692.05	687.15	683.35
2.0000	2	1.4995	12	3 1/2	14	341464	342464	343464	703.80	1.9411 - 2.0030	760.50	732.25	722.65	718.15	713.25	709.45

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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	\$202.35	4.494 - 4.696	\$245.50	\$216.90	\$207.25	\$202.75	\$197.85	\$193.85	\$188.35
5.0	.1969	.1805	4	1 1/4*	5	3414050	3424050	3434050	202.35	4.697 - 5.182	245.50	216.90	207.25	202.75	197.85	193.85	188.35
5.5	.2165	.2075	4	1 1/4*	5	3414055	3424055	3434055	202.35	5.183 - 5.613	245.50	216.90	207.25	202.75	197.85	193.85	188.35
6.0	.2362	.2265	4	1 1/2*	6	3414060	3424060	3434060	202.35	5.614 - 6.045	245.50	216.90	207.25	202.75	197.85	193.85	188.35
-	-	.2405	4	1 1/2*	6	3414063	3424063	3434063	-	6.046 - 6.426	245.50	216.90	207.25	202.75	197.85	193.85	188.35
6.5	.2559	.2485	4	1 1/2*	6	3414065	3424065	3434065	213.60	6.427 - 7.214	256.80	228.10	218.55	213.85	209.00	205.05	199.65
7.0	.2756	.2485	4	1 1/2*	6	3414070	3424070	3434070	213.60	-	-	-	-	-	-	-	-
7.5	.2953	.2792	4	1 1/2	6	3414075	3424075	3434075	224.60	7.215 - 8.001	267.65	239.05	229.55	224.80	219.85	216.10	210.40
8.0	.3150	.2792	4	1 1/2	6	3414080	3424080	3434080	224.60	-	-	-	-	-	-	-	-
8.5	.3346	.2792	4	1 1/2	6	3414085	3424085	3434085	226.25	8.002 - 8.814	269.25	240.85	231.00	226.40	221.50	217.60	212.10
9.0	.3543	.3105	4	1 3/4	7	3414090	3424090	3434090	228.35	8.815 - 9.601	271.40	242.85	233.15	228.50	223.65	219.70	214.30
9.5	.3740	.3105	4	1 3/4	7	3414095	3424095	3434095	228.35	-	-	-	-	-	-	-	-
10.0	.3937	.3105	4	1 3/4	7	3414100	3424100	3434100	229.05	9.602 - 10.389	272.10	243.60	233.95	229.25	224.45	220.45	215.00
10.5	.4134	.3730	6	1 3/4	7	3414105	3424105	3434105	231.00	10.390 - 11.201	274.20	245.60	236.00	231.40	226.60	222.60	217.00
11.0	.4331	.3730	6	1 3/4	7	3414110	3424110	3434110	231.00	-	-	-	-	-	-	-	-
11.5	.4528	.3730	6	1 3/4	7	3414115	3424115	3434115	232.95	11.202 - 11.989	276.15	247.45	237.90	233.15	228.40	224.45	219.05
12.0	.4724	.4355	6	2	8	3414120	3424120	3434120	235.55	11.990 - 12.776	278.45	250.10	240.30	235.70	230.85	226.80	221.35
12.5	.4921	.4355	6	2	8	3414125	3424125	3434125	235.55	-	-	-	-	-	-	-	-
13.0	.5118	.4355	6	2	8	3414130	3424130	3434130	240.20	12.777 - 13.564	283.45	254.80	245.20	240.35	235.70	231.65	226.25
13.5	.5315	.4355	6	2	8	3414135	3424135	3434135	240.20	-	-	-	-	-	-	-	-
14.0	.5512	.4355	6	2	8	3414140	3424140	3434140	243.35	13.565 - 14.376	286.60	257.85	248.40	243.75	238.90	234.85	229.35
14.5	.5709	.4355	6	2	8	3414145	3424145	3434145	248.10	14.377 - 15.164	291.20	262.60	252.95	248.40	243.60	239.60	234.00
15.0	.5906	.4355	6	2	8	3414150	3424150	3434150	248.10	-	-	-	-	-	-	-	-
15.5	.6102	.5615	6	2 1/4	9	3414155	3424155	3434155	252.50	15.165 - 15.951	295.55	267.05	257.40	252.65	247.75	243.90	238.30
16.0	.6299	.5615	6	2 1/4	9	3414160	3424160	3434160	277.30	15.952 - 16.739	320.55	291.90	282.30	277.70	272.95	268.90	263.30
16.5	.6496	.5615	6	2 1/4	9	3414165	3424165	3434165	277.30	-	-	-	-	-	-	-	-
17.0	.6693	.5615	6	2 1/4	9	3414170	3424170	3434170	282.60	16.740 - 17.551	325.85	297.15	287.65	282.90	278.15	274.10	268.65
17.5	.6890	.5615	6	2 1/4	9	3414175	3424175	3434175	282.60	-	-	-	-	-	-	-	-
18.0	.7087	.6245	6	2 1/2	9 1/2	3414180	3424180	3434180	294.10	17.552 - 18.339	337.20	308.65	298.95	294.25	289.50	285.45	280.00
18.5	.7283	.6245	6	2 1/2	9 1/2	3414185	3424185	3434185	294.10	18.340 - 19.126	337.20	308.65	298.95	294.25	289.50	285.45	280.00
19.0	.7480	.6245	6	2 1/2	9 1/2	3414190	3424190	3434190	294.10	-	-	-	-	-	-	-	-
19.5	.7677	.6245	6	2 1/2	9 1/2	3414195	3424195	3434195	302.25	19.127 - 19.914	345.25	316.70	307.15	302.40	297.70	293.55	288.05
20.0	.7874	.6245	6	2 1/2	9 1/2	3414200	3424200	3434200	302.25	19.915 - 20.726	345.25	316.70	307.15	302.40	297.70	293.55	288.05
20.5	.8071	.6245	6	2 1/2	9 1/2	3414205	3424205	3434205	302.25	-	-	-	-	-	-	-	-
21.0	.8268	.6245	6	2 1/2	9 1/2	3414210	3424210	3434210	311.80	20.727 - 21.514	355.05	326.40	316.85	312.10	307.30	303.30	297.85
21.5	.8465	.6245	6	2 1/2	9 1/2	3414215	3424215	3434215	311.80	-	-	-	-	-	-	-	-
22.0	.8661	.7495	6	2 5/8	10	3414220	3424220	3434220	311.80	21.515 - 22.301	355.05	326.40	316.85	312.10	307.30	303.30	297.85
22.5	.8858	.7495	6	2 5/8	10	3414225	3424225	3434225	357.10	22.302 - 23.089	401.95	372.30	362.30	357.40	352.50	348.35	342.55
23.0	.9055	.7495	6	2 5/8	10	3414230	3424230	3434230	357.10	-	-	-	-	-	-	-	-
23.5	.9252	.7495	8	2 5/8	10	3414235	3424235	3434235	357.10	23.090 - 23.901	401.95	372.30	362.30	357.40	352.50	348.35	342.55
24.0	.9449	.7495	8	2 5/8	10	3414240	3424240	3434240	358.65	23.902 - 24.689	403.35	373.60	363.65	358.80	353.80	349.70	343.95
24.5	.9646	.7495	8	2 5/8	10	3414245	3424245	3434245	358.65	-	-	-	-	-	-	-	-
25.0	.9843	.8745	8	2 3/4	10 1/2	3414250	3424250	3434250	358.65	24.690 - 25.476	403.35	373.60	363.65	358.80	353.80	349.70	343.95
25.5	1.0039	.8745	8	2 3/4	10 1/2	3414255	3424255	3434255	368.15	25.477 - 27.076	412.85	383.15	373.30	368.40	363.45	359.35	353.60
26.0	1.0236	.8745	8	2 3/4	10 1/2	3414260	3424260	3434260	368.15	-	-	-	-	-	-	-	-
27.0	1.0630	.8745	8	2 3/4	10 1/2	3414270	3424270	3434270	368.15	-	-	-	-	-	-	-	-
28.0	1.1024	.8745	8	2 7/8	11	3414280	3424280	3434280	380.10	27.077 - 28.651	425.00	395.20	385.25	380.40	375.45	371.35	365.55
29.0	1.1417	.9995	8	2 7/8	11	3414290	3424290	3434290	405.70	28.652 - 30.239	450.70	420.90	410.90	406.10	401.20	396.95	391.15
30.0	1.1811	.9995	8	2 7/8	11	3414300	3424300	3434300	405.70	-	-	-	-	-	-	-	-
31.0	1.2205	.9995	8	3	11 1/2	3414310	3424310	3434310	410.90	30.240 - 31.826	455.70	426.00	416.15	411.15	406.25	402.10	396.35
32.0	1.2598	.9995	8	3	11 1/2	3414320	3424320	3434320	422.20	31.827 - 33.414	466.90	437.15	427.30	422.40	417.30	413.30	407.55
33.0	1.2992	.9995	8	3	11 1/2	3414330	3424330	3434330	422.20	-	-	-	-	-	-	-	-
34.0	1.3386	.9995	8	3 1/4	12	3414340	3424340	3434340	438.50	33.415 - 35.001	483.20	453.45	443.55	438.65	433.70	429.55	423.85
35.0	1.3780	.9995	8	3 1/4	12	3414350	3424350	3434350	438.50	-	-	-	-	-	-	-	-
36.0	1.4173	.9995	8	3 1/4	12	3414360	3424360	3434360	451.60	35.002 - 36.589	496.30	466.55	456.70	451.85	446.85	442.75	437.00
37.0	1.4567	1.2495	8	3 1/2	12 1/2	3414370	3424370	3434370	466.05	36.590 - 38.176	510.80	481.15	471.15	466.35	461.30	457.20	451.40
38.0	1.4961	1.2495	8	3 1/2	12 1/2	3414380	3424380	3434380	466.05	-	-	-	-	-	-	-	-

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*1/2" carbide length.

Made in U.S.A.

CARBIDE TIPPED RIGHT SPIRAL FLUTE FED COOLANT REAMERS

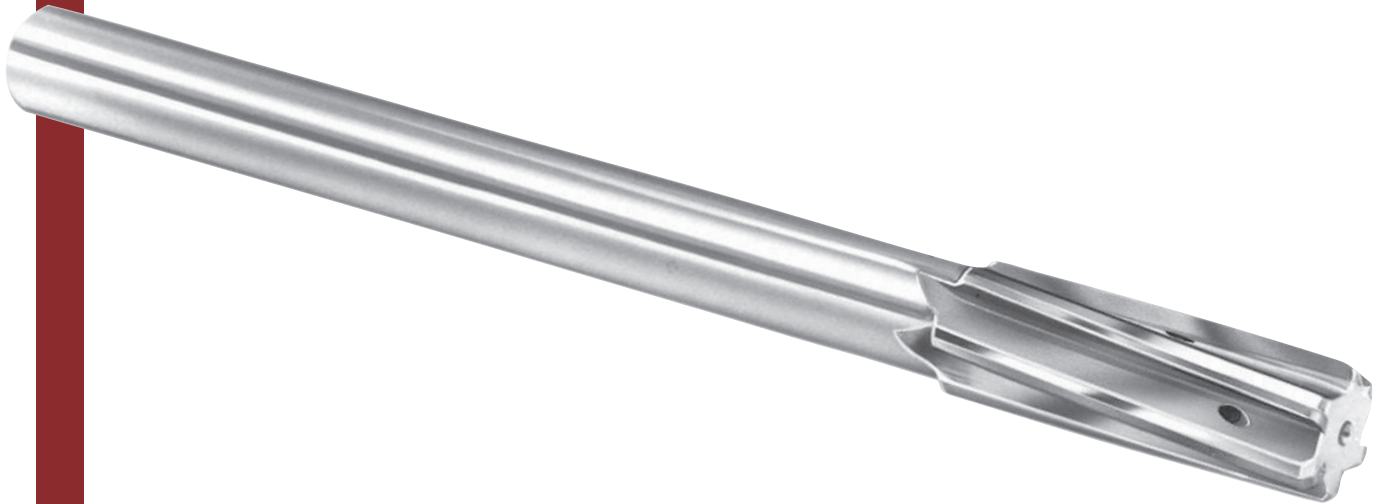
TYPE 3417 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - THROUGH HOLES - FOR NON-FERROUS

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	FRACTIONAL			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	\$201.80	.2381 - .2530	\$259.10	\$230.50	\$220.85	\$216.25	\$211.40	\$207.40
.2812	9/32	.2485	4	1 1/2*	6	341709	341809	341909	214.10	.2531 - .2840	271.40	242.75	233.00	228.50	223.60	219.70
.3125	5/16	.2792	4	1 1/2	6	341710	341810	341910	226.25	.2841 - .3150	283.55	254.80	245.20	240.75	235.70	231.85
.3438	11/32	.2792	4	1 1/2	6	341711	341811	341911	227.95	.3151 - .3470	285.30	256.55	246.95	242.45	237.40	233.70
.3750	3/8	.3105	4	1 3/4	7	341712	341812	341912	230.20	.3471 - .3780	287.65	258.85	249.20	244.65	239.75	235.95
.4062	13/32	.3105	4	1 3/4	7	341713	341813	341913	230.95	.3781 - .4090	288.30	259.55	250.10	245.45	240.35	236.60
.4375	7/16	.3730	6	1 3/4	7	341714	341814	341914	233.40	.4091 - .4410	290.75	261.90	252.40	247.65	242.85	239.00
.4688	15/32	.3730	6	1 3/4	7	341715	341815	341915	235.55	.4411 - .4720	292.80	264.05	254.40	249.80	244.90	241.05
.5000	1/2	.4355	6	2	8	341716	341816	341916	238.05	.4721 - .5030	295.35	266.75	257.25	252.55	247.60	243.80
.5312	17/32	.4355	6	2	8	341717	341817	341917	246.90	.5031 - .5340	304.15	275.35	265.80	261.40	256.25	252.50
.5625	9/16	.4355	6	2	8	341718	341818	341918	246.90	.5341 - .5660	304.15	275.35	265.80	261.40	256.25	252.50
.5938	19/32	.4355	6	2	8	341719	341819	341919	256.60	.5661 - .5970	313.95	285.30	275.55	271.10	266.05	262.20
.6250	5/8	.5615	6	2 1/4	9	341720	341820	341920	256.60	.5971 - .6280	313.95	285.30	275.55	271.10	266.05	262.20
.6562	21/32	.5615	6	2 1/4	9	341721	341821	341921	289.90	.6281 - .6590	347.20	318.65	309.00	304.30	299.40	295.55
.6875	11/16	.5615	6	2 1/4	9	341722	341822	341922	289.90	.6591 - .6910	347.20	318.65	309.00	304.30	299.40	295.55
.7188	23/32	.5615	6	2 1/4	9	341723	341823	341923	302.55	.6911 - .7220	359.85	331.15	321.70	317.00	312.10	308.20
.7500	3/4	.6245	6	2 1/2	9 1/2	341724	341824	341924	302.55	.7221 - .7530	359.85	331.15	321.70	317.00	312.10	308.20
.7812	25/32	.6245	6	2 1/2	9 1/2	341725	341825	341925	326.00	.7531 - .7840	383.25	354.60	345.00	340.50	335.50	331.75
.8125	13/16	.6245	6	2 1/2	9 1/2	341726	341826	341926	330.05	.7841 - .8160	387.30	358.65	349.00	344.55	339.50	335.55
.8438	27/32	.6245	6	2 1/2	9 1/2	341727	341827	341927	336.25	.8161 - .8470	393.60	364.85	355.20	350.60	345.70	341.85
.8750	7/8	.7495	6	2 5/8	10	341728	341828	341928	354.35	.8471 - .8780	413.90	384.10	374.15	369.20	364.25	360.10
.9062	29/32	.7495	6	2 5/8	10	341729	341829	341929	375.45	.8781 - .9090	434.85	405.15	395.15	390.40	385.25	381.25
.9375	15/16	.7495	8	2 5/8	10	341730	341830	341930	393.45	.9091 - .9410	453.00	423.10	413.05	408.45	403.35	399.35
.9688	31/32	.7495	8	2 5/8	10	341731	341831	341931	394.50	.9411 - .9720	454.00	424.25	414.20	409.45	404.35	400.35
1.0000	1	.8745	8	2 3/4	10 1/2	341732	341832	341932	395.15	.9721 - 1.0030	454.70	424.95	414.85	410.10	405.00	401.05
1.0625	1 1/16	.8745	8	2 3/4	10 1/2	341734	341834	341934	455.70	1.0031 - 1.0660	515.15	485.35	475.40	470.65	465.55	461.50
1.1250	1 1/8	.8745	8	2 7/8	11	341736	341836	341936	457.70	1.0661 - 1.1280	517.15	487.25	477.30	472.55	467.55	463.50
1.1875	1 3/16	.9995	8	2 7/8	11	341738	341838	341938	476.60	1.1281 - 1.1905	535.95	506.10	496.25	491.50	486.40	482.35
1.2500	1 1/4	.9995	8	3	11 1/2	341740	341840	341940	482.80	1.1906 - 1.2530	542.30	512.50	502.60	497.75	492.65	488.65
1.3125	1 5/16	.9995	8	3	11 1/2	341742	341842	341942	496.75	1.2531 - 1.3155	556.25	526.45	516.30	511.65	506.60	502.60
1.3750	1 3/8	.9995	8	3 1/4	12	341744	341844	341944	516.70	1.3156 - 1.3780	576.35	546.50	536.40	531.80	526.65	522.60
1.4375	1 7/16	.9995	8	3 1/4	12	341746	341846	341946	532.85	1.3781 - 1.4405	592.50	562.60	552.65	547.95	542.90	538.75
1.5000	1 1/2	1.2495	8	3 1/2	12 1/2	341748	341848	341948	550.80	1.4406 - 1.5030	610.30	580.55	570.50	565.75	560.60	556.65

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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

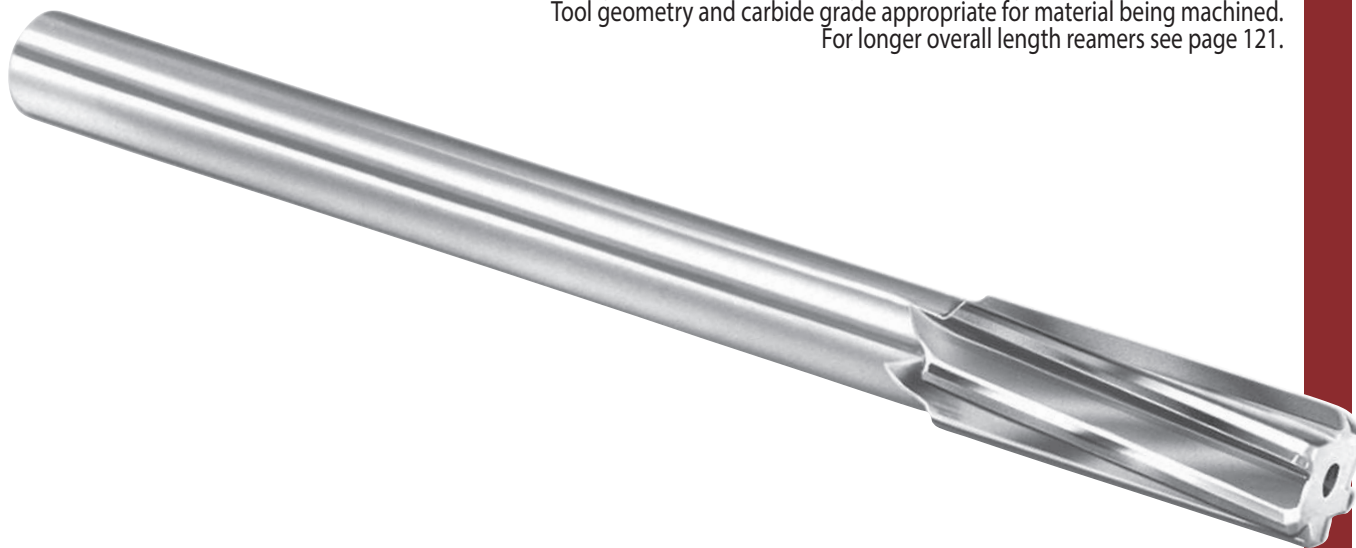
TYPE 3415 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - BLIND HOLES - FOR STEEL

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	FRACTION			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	\$188.40	.2381 - .2530	\$241.85	\$215.10	\$206.10	\$201.80	\$197.20	\$193.55
.2812	9/32	.2485	4	1 1/2*	6	341109	341309	341509	192.70	.2531 - .2840	244.30	218.45	209.80	205.75	201.35	197.70
.3125	5/16	.2792	4	1 1/2	6	341110	341310	341510	211.15	.2841 - .3150	264.65	237.85	228.80	224.60	219.85	216.30
.3438	11/32	.2792	4	1 1/2	6	341111	341311	341511	212.70	.3151 - .3470	266.20	239.45	230.55	226.25	221.50	218.00
.3750	3/8	.3105	4	1 3/4	7	341112	341312	341512	215.00	.3471 - .3780	268.45	241.50	232.65	228.40	223.90	220.30
.4062	13/32	.3105	4	1 3/4	7	341113	341313	341513	215.55	.3781 - .4090	269.05	242.35	233.40	229.05	224.45	220.85
.4375	7/16	.3730	6	1 3/4	7	341114	341314	341514	217.75	.4091 - .4410	271.35	244.45	235.55	231.35	226.65	223.15
.4688	15/32	.3730	6	1 3/4	7	341115	341315	341515	219.70	.4411 - .4720	273.25	246.35	237.55	233.15	228.55	224.95
.5000	1/2	.4355	6	2	8	341116	341316	341516	228.25	.4721 - .5030	283.20	255.65	246.35	242.00	237.30	233.70
.5312	17/32	.4355	6	2	8	341117	341317	341517	236.55	.5031 - .5340	291.40	263.85	254.65	250.35	245.60	241.90
.5625	9/16	.4355	6	2	8	341118	341318	341518	236.55	.5341 - .5660	291.40	263.85	254.65	250.35	245.60	241.90
.5938	19/32	.4355	6	2	8	341119	341319	341519	245.90	.5661 - .5970	300.95	273.35	264.15	259.85	255.00	251.35
.6250	5/8	.5615	6	2 1/4	9	341120	341320	341520	245.90	.5971 - .6280	300.95	273.35	264.15	259.85	255.00	251.35
.6562	21/32	.5615	6	2 1/4	9	341121	341321	341521	277.95	.6281 - .6590	332.80	305.35	296.00	291.65	286.90	283.30
.6875	11/16	.5615	6	2 1/4	9	341122	341322	341522	277.95	.6591 - .6910	332.80	305.35	296.00	291.65	286.90	283.30
.7188	23/32	.5615	6	2 1/4	9	341123	341323	341523	289.90	.6911 - .7220	344.90	317.40	308.20	303.90	299.00	295.25
.7500	3/4	.6245	6	2 1/2	9 1/2	341124	341324	341524	272.35	.7221 - .7530	324.00	298.10	289.50	285.30	280.85	277.30
.7812	25/32	.6245	6	2 1/2	9 1/2	341125	341325	341525	312.50	.7531 - .7840	367.40	339.80	330.65	326.20	321.55	317.70
.8125	13/16	.6245	6	2 1/2	9 1/2	341126	341326	341526	316.25	.7841 - .8160	371.20	343.60	334.50	330.15	325.55	321.80
.8438	27/32	.6245	6	2 1/2	9 1/2	341127	341327	341527	322.15	.8161 - .8470	377.25	349.70	340.50	336.05	331.35	327.70
.8750	7/8	.7495	6	2 5/8	10	341128	341328	341528	339.55	.8471 - .8780	396.50	368.15	358.50	353.95	349.00	345.25
.9062	29/32	.7495	6	2 5/8	10	341129	341329	341529	359.80	.8781 - .9090	416.75	388.25	378.75	374.20	369.15	365.40
.9375	15/16	.7495	8	2 5/8	10	341130	341330	341530	377.05	.9091 - .9410	434.15	405.50	396.05	391.35	386.40	382.65
.9688	31/32	.7495	8	2 5/8	10	341131	341331	341531	378.10	.9411 - .9720	435.00	406.55	396.95	392.35	387.45	383.70
1.0000	1	.8745	8	2 3/4	10 1/2	341132	341332	341532	378.75	.9721 - 1.0030	435.70	407.10	397.60	393.05	388.15	384.30
1.0625	1 1/16	.8745	8	2 3/4	10 1/2	341134	341334	341534	389.25	1.0031 - 1.0660	446.20	417.80	408.15	403.55	398.65	394.90
1.1250	1 1/8	.8745	8	2 7/8	11	341136	341336	341536	402.70	1.0661 - 1.1280	459.80	431.25	421.75	417.15	412.30	408.45
1.1875	1 3/16	.9995	8	2 7/8	11	341138	341338	341538	431.45	1.1281 - 1.1905	488.50	460.05	450.30	445.85	440.80	437.00
1.2500	1 1/4	.9995	8	3	11 1/2	341140	341340	341540	437.00	1.1906 - 1.2530	494.00	465.50	456.00	451.40	446.55	442.75
1.3125	1 5/16	.9995	8	3	11 1/2	341142	341342	341542	449.70	1.2531 - 1.3155	506.65	478.05	468.50	463.95	459.15	455.20
1.3750	1 3/8	.9995	8	3 1/4	12	341144	341344	341544	467.95	1.3156 - 1.3780	525.00	496.40	486.80	482.35	477.30	473.55
1.4375	1 7/16	.9995	8	3 1/4	12	341146	341346	341546	482.50	1.3781 - 1.4405	539.45	510.95	501.45	496.85	491.85	488.20
1.5000	1 1/2	1.2495	8	3 1/2	12 1/2	341148	341348	341548	498.85	1.4406 - 1.5030	555.80	527.35	517.70	513.10	508.25	504.50

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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	FRACTION			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	\$233.40	.2381 - .2530	\$290.75	\$261.90	\$252.40	\$247.65	\$242.85	\$239.00
.2812	9/32	.2485	4	1 1/2*	6	342709	342809	342909	247.45	.2531 - .2840	304.70	276.15	266.60	261.90	257.10	253.15
.3125	5/16	.2792	4	1 1/2	6	342710	342810	342910	261.55	.2841 - .3150	318.80	289.95	280.45	275.95	270.90	267.15
.3438	11/32	.2792	4	1 1/2	6	342711	342811	342911	263.50	.3151 - .3470	320.70	291.95	282.45	277.95	273.05	269.05
.3750	3/8	.3105	4	1 3/4	7	342712	342812	342912	266.05	.3471 - .3780	323.55	294.80	285.20	280.55	275.55	271.90
.4062	13/32	.3105	4	1 3/4	7	342713	342813	342913	267.20	.3781 - .4090	324.55	295.85	286.20	281.70	276.65	272.95
.4375	7/16	.3730	6	1 3/4	7	342714	342814	342914	269.75	.4091 - .4410	327.15	298.30	288.75	284.20	279.40	275.35
.4688	15/32	.3730	6	1 3/4	7	342715	342815	342915	272.10	.4411 - .4720	329.35	300.75	291.10	286.60	281.70	277.80
.5000	1/2	.4355	6	2	8	342716	342816	342916	275.55	.4721 - .5030	333.05	304.20	294.65	289.95	285.20	281.30
.5312	17/32	.4355	6	2	8	342717	342817	342917	281.40	.5031 - .5340	338.70	309.95	300.40	295.85	290.90	287.00
.5625	9/16	.4355	6	2	8	342718	342818	342918	285.45	.5341 - .5660	342.80	314.10	304.45	299.95	294.95	291.10
.5938	19/32	.4355	6	2	8	342719	342819	342919	291.40	.5661 - .5970	348.70	320.10	310.45	305.90	301.00	297.10
.6250	5/8	.5615	6	2 1/4	9	342720	342820	342920	296.85	.5971 - .6280	354.10	325.55	315.80	311.30	306.30	302.45
.6562	21/32	.5615	6	2 1/4	9	342721	342821	342921	328.75	.6281 - .6590	386.10	357.35	347.75	343.25	338.25	334.35
.6875	11/16	.5615	6	2 1/4	9	342722	342822	342922	335.35	.6591 - .6910	392.75	364.10	354.35	349.85	344.90	341.10
.7188	23/32	.5615	6	2 1/4	9	342723	342823	342923	342.55	.6911 - .7220	399.80	371.15	361.50	356.95	352.05	348.15
.7500	3/4	.6245	6	2 1/2	9 1/2	342724	342824	342924	349.85	.7221 - .7530	407.10	378.50	368.75	364.30	359.35	355.50
.7812	25/32	.6245	6	2 1/2	9 1/2	342725	342825	342925	355.80	.7531 - .7840	413.05	384.50	374.75	370.20	365.25	361.40
.8125	13/16	.6245	6	2 1/2	9 1/2	342726	342826	342926	360.10	.7841 - .8160	417.30	388.75	379.10	374.50	369.70	365.70
.8438	27/32	.6245	6	2 1/2	9 1/2	342727	342827	342927	366.70	.8161 - .8470	424.10	395.35	385.70	381.10	376.20	372.35
.8750	7/8	.7495	6	2 5/8	10	342728	342828	342928	386.60	.8471 - .8780	446.10	416.35	406.30	401.55	396.45	392.35
.9062	29/32	.7495	6	2 5/8	10	342729	342829	342929	409.40	.8781 - .9090	468.85	438.95	429.10	424.35	419.30	415.20
.9375	15/16	.7495	8	2 5/8	10	342730	342830	342930	429.40	.9091 - .9410	488.70	459.05	449.00	444.25	439.05	435.20
.9688	31/32	.7495	8	2 5/8	10	342731	342831	342931	430.45	.9411 - .9720	489.85	460.20	450.10	445.35	440.20	436.20
1.0000	1	.8745	8	2 3/4	10 1/2	342732	342832	342932	431.10	.9721 - 1.0030	490.50	460.75	450.80	445.95	440.80	436.85
1.0625	1 1/16	.8745	8	2 3/4	10 1/2	342734	342834	342934	455.70	1.0031 - 1.0660	515.15	485.35	475.40	470.65	465.55	461.50
1.1250	1 1/8	.8745	8	2 7/8	11	342736	342836	342936	457.70	1.0661 - 1.1280	517.15	487.25	477.30	472.55	467.55	463.50
1.1875	1 3/16	.9995	8	2 7/8	11	342738	342838	342938	476.60	1.1281 - 1.1905	535.95	506.10	496.25	491.50	486.40	482.35
1.2500	1 1/4	.9995	8	3	11 1/2	342740	342840	342940	482.80	1.1906 - 1.2530	542.30	512.50	502.60	497.75	492.65	488.65
1.3125	1 5/16	.9995	8	3	11 1/2	342742	342842	342942	496.75	1.2531 - 1.3155	556.25	526.45	516.30	511.65	506.60	502.60
1.3750	1 3/8	.9995	8	3 1/4	12	342744	342844	342944	516.70	1.3156 - 1.3780	576.35	546.50	536.40	531.80	526.65	522.60
1.4375	1 7/16	.9995	8	3 1/4	12	342746	342846	342946	532.85	1.3781 - 1.4405	592.50	562.60	552.65	547.95	542.90	538.75
1.5000	1 1/2	1.2495	8	3 1/2	12 1/2	342748	342848	342948	550.80	1.4406 - 1.5030	610.30	580.55	570.50	565.75	560.60	556.65

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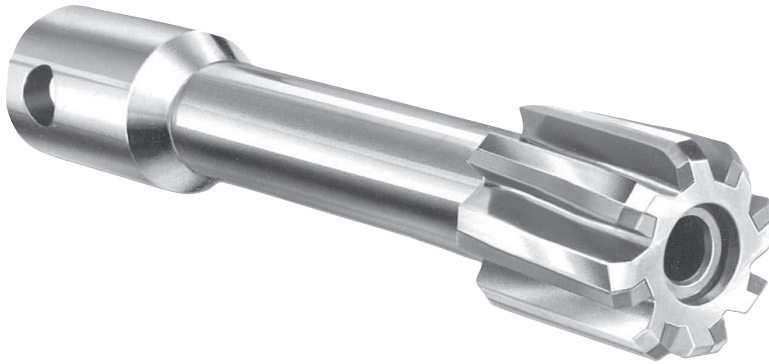
CARBIDE TIPPED COOLANT REAMERS

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	\$178.20	.3181 - .3800	\$288.05	\$232.95	\$214.60	\$205.90	\$196.45	\$189.00
.4062	13/32	3/8	3/4	6	1/2	2 5/8	349013	180.90	.3801 - .4090	290.75	235.70	217.25	208.40	199.00	191.60
.4375	7/16	3/8	3/4	6	1/2	2 5/8	349014	180.90	.4091 - .4410	290.75	235.70	217.25	208.40	199.00	191.60
.4688	15/32	5/8	1	6	5/8	3 1/2	349015	185.80	.4411 - .4720	295.65	240.70	222.30	213.40	203.90	196.55
.5000	1/2	5/8	1	6	5/8	3 1/2	349016	185.80	.4721 - .5050	295.65	240.70	222.30	213.40	203.90	196.55
.5625	9/16	5/8	1	6	3/4	3 3/4	349018	203.05	.5051 - .5660	312.90	257.75	239.45	230.70	221.30	213.85
.6250	5/8	5/8	1	6	3/4	3 3/4	349020	203.05	.5661 - .6300	312.90	257.75	239.45	230.70	221.30	213.85
.6875	11/16	5/8	1	6	3/4	4 1/4	349022	225.25	.6301 - .6910	335.20	280.15	261.75	252.85	243.50	236.00
.7500	3/4	5/8	1	6	3/4	4 1/4	349024	225.25	.6911 - .7550	335.20	280.15	261.75	252.85	243.50	236.00
.8125	13/16	5/8	1	6	7/8	4 3/4	349026	237.60	.7551 - .8160	347.55	292.55	274.00	265.20	255.85	248.50
.8750	7/8	5/8	1	6	7/8	4 3/4	349028	246.60	.8161 - .8800	360.70	303.55	284.35	275.25	265.60	257.75
.9375	15/16	1	1 1/2	8	1	5 1/2	349030	295.55	.8801 - .9410	409.55	352.50	333.35	324.25	314.50	306.75
1.0000	1	1	1 1/2	8	1	5 1/2	349032	295.55	.9411 - 1.0050	409.55	352.50	333.35	324.25	314.50	306.75
1.0625	1 1/16	1	1 1/2	8	1 1/4	6	349034	327.15	1.0051 - 1.0660	445.95	386.30	366.55	356.95	346.70	338.70
1.1250	1 1/8	1	1 1/2	8	1 1/4	6	349036	327.15	1.0661 - 1.1300	445.95	386.30	366.55	356.95	346.70	338.70
1.1875	1 3/16	1	1 1/2	8	1 1/4	6	349038	335.20	1.1301 - 1.1900	454.15	394.50	374.60	365.10	354.95	346.75
1.2500	1 1/4	1	1 1/2	8	1 1/4	6	349040	335.20	1.1901 - 1.2550	454.15	394.50	374.60	365.10	354.95	346.75
1.3125	1 5/16	1	1 1/2	8	1 1/4	6	349042	359.40	1.2551 - 1.3155	478.35	418.75	398.75	389.25	379.05	371.05
1.3750	1 3/8	1	1 1/2	8	1 1/4	6	349044	359.40	1.3156 - 1.3800	478.35	418.75	398.75	389.25	379.05	371.05
1.4375	1 7/16	1	1 1/2	8	1 1/4	6	349046	383.50	1.3801 - 1.4405	502.50	442.80	422.80	413.45	403.25	395.15
1.5000	1 1/2	1	1 1/2	8	1 1/4	6	349048	383.50	1.4406 - 1.5050	502.50	442.80	422.80	413.45	403.25	395.15
1.5625	1 9/16	1	1 1/2	10	1 1/4	6	349050	402.20	1.5051 - 1.5660	521.15	461.50	441.65	432.10	421.90	413.90
1.6250	1 5/8	1	1 1/2	10	1 1/4	6	349052	402.20	1.5661 - 1.6300	521.15	461.50	441.65	432.10	421.90	413.90
1.6875	1 11/16	1	1 1/2	10	1 1/4	6	349054	426.40	1.6301 - 1.6910	545.35	485.75	465.90	456.30	446.10	438.05
1.7500	1 3/4	1	1 1/2	10	1 1/4	6	349056	426.40	1.6911 - 1.7550	545.35	485.75	465.90	456.30	446.10	438.05
1.8125	1 13/16	1	1 1/2	10	1 1/4	6	349058	447.80	1.7551 - 1.8160	566.85	507.10	487.20	477.75	467.55	459.45
1.8750	1 7/8	1	1 1/2	10	1 1/4	6	349060	447.80	1.8161 - 1.8800	566.85	507.10	487.20	477.75	467.55	459.45
1.9375	1 15/16	1	1 1/2	10	1 1/4	6	349062	469.35	1.8801 - 1.9410	588.05	528.50	508.65	499.15	488.80	481.00
2.0000	2	1	1 1/2	10	1 1/4	6	349064	469.35	1.9411 - 2.0150	588.05	528.50	508.65	499.15	488.80	481.00

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

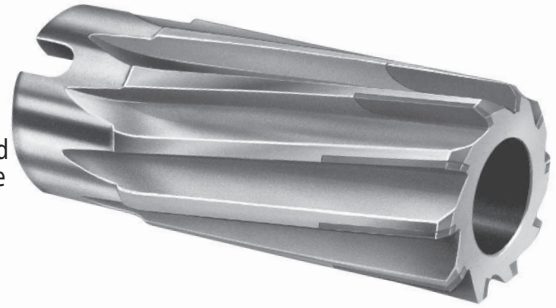
Made in U.S.A.

CARBIDE TIPPED 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 FLT.	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	\$344.75	.7221 - .7530	\$454.60	\$399.65	\$381.20	\$372.45	\$363.00	\$355.60
.7812	25/32	3/8	4	6	1 3/4	1	2 1/4	344125	351.45	.7531 - .7840	461.20	406.30	387.75	379.05	369.70	362.30
.8125	13/16	1/2	5	6	1 15/16	1	2 1/2	344126	351.45	.7841 - .8160	461.20	406.30	387.75	379.05	369.70	362.30
.8750	7/8	1/2	5	6	1 15/16	1	2 1/2	344128	393.00	.8161 - .8780	506.90	449.85	430.60	421.60	411.75	404.00
.9375	15/16	1/2	5	8	1 15/16	1	2 1/2	344130	393.00	.8781 - .9410	506.90	449.85	430.60	421.60	411.75	404.00
1.0000	1	1/2	5	8	1 15/16	1	2 1/2	344132	399.90	.9411 - 1.0030	513.85	456.75	437.65	428.65	418.75	411.05
1.0625	1 1/16	5/8	6	8	2 1/8	1	2 3/4	344134	412.45	1.0031 - 1.0660	526.35	469.35	450.10	441.05	431.25	423.55
1.1250	1 1/8	5/8	6	8	2 1/8	1	2 3/4	344136	420.95	1.0661 - 1.1280	534.95	477.85	458.75	449.70	439.90	432.10
1.1875	1 3/16	5/8	6	8	2 1/8	1 1/8	2 3/4	344138	428.00	1.1281 - 1.1905	542.05	484.75	465.65	456.70	446.85	439.05
1.2500	1 1/4	5/8	6	8	2 1/8	1 1/8	2 3/4	344140	456.00	1.1906 - 1.2530	569.95	512.85	493.70	484.60	474.90	467.10
1.3125	1 5/16	3/4	7	8	2 1/4	1 1/8	3	344142	463.10	1.2531 - 1.3155	577.10	519.85	500.85	491.70	482.00	474.15
1.3750	1 3/8	3/4	7	8	2 1/4	1 1/8	3	344144	477.05	1.3156 - 1.3780	591.05	533.95	514.85	505.75	495.85	488.25
1.4375	1 7/16	3/4	7	8	2 1/4	1 1/8	3	344146	491.10	1.3781 - 1.4405	605.10	547.95	528.90	519.70	509.95	502.05
1.5000	1 1/2	3/4	7	8	2 1/4	1 1/8	3	344148	512.10	1.4406 - 1.5030	626.15	568.95	549.90	540.90	530.95	523.35
1.5625	1 5/8	3/4	7	10	2 1/4	1 1/8	3	344150	592.95	1.5031 - 1.5660	712.00	652.35	632.35	622.95	612.80	604.60
1.6250	1 5/8	3/4	7	10	2 1/4	1 1/8	3	344152	622.15	1.5661 - 1.6280	741.15	681.65	661.55	652.05	641.85	633.75
1.6875	1 11/16	1	8	10	2 3/4	1 1/8	3 1/2	344154	673.30	1.6281 - 1.6910	792.40	732.75	712.75	703.40	693.15	685.10
1.7500	1 3/4	1	8	10	2 3/4	1 1/8	3 1/2	344156	673.30	1.6911 - 1.7530	792.40	732.75	712.75	703.40	693.15	685.10
1.8125	1 13/16	1	8	10	2 3/4	1 1/8	3 1/2	344158	724.20	1.7531 - 1.8160	843.05	783.45	763.50	754.10	743.90	735.75
1.8750	1 7/8	1	8	10	2 3/4	1 1/8	3 1/2	344160	724.20	1.8161 - 1.8780	843.05	783.45	763.50	754.10	743.90	735.75
1.9375	1 15/16	1	8	10	2 3/4	1 1/8	3 1/2	344162	776.00	1.8781 - 1.9410	894.95	835.25	815.40	805.80	795.65	787.60
2.0000	2	1	8	10	2 3/4	1 1/8	3 1/2	344164	776.00	1.9411 - 2.0030	894.95	835.25	815.40	805.80	795.65	787.60
2.0625	2 1/16	1 1/4	9	12	2 7/8	1 1/8	3 3/4	344166	834.40	2.0031 - 2.0660	953.35	893.80	873.75	864.30	854.25	846.15
2.1250	2 1/8	1 1/4	9	12	2 7/8	1 1/8	3 3/4	344168	834.40	2.0661 - 2.1280	953.35	893.80	873.75	864.30	854.25	846.15
2.1875	2 3/16	1 1/4	9	12	2 7/8	1 1/8	3 3/4	344170	907.75	2.1281 - 2.1905	1026.55	966.95	947.00	937.60	927.30	919.35
2.2500	2 1/4	1 1/4	9	12	2 7/8	1 1/8	3 3/4	344172	907.75	2.1906 - 2.2530	1026.55	966.95	947.00	937.60	927.30	919.35
2.3125	2 5/16	1 1/4	9	12	2 7/8	1 1/8	3 3/4	344174	958.95	2.2531 - 2.3155	1078.00	1018.35	998.45	988.95	978.65	970.70
2.3750	2 3/8	1 1/4	9	12	2 7/8	1 1/8	3 3/4	344176	958.95	2.3156 - 2.3780	1078.00	1018.35	998.45	988.95	978.65	970.70
2.4375	2 7/16	1 1/4	9	12	2 7/8	1 1/8	3 3/4	344178	1010.15	2.3781 - 2.4405	1129.15	1069.50	1049.65	1040.00	1029.85	1021.75
2.5000	2 1/2	1 1/4	9	12	2 7/8	1 1/8	3 3/4	344180	1010.15	2.4406 - 2.5030	1129.15	1069.50	1049.65	1040.00	1029.85	1021.75
2.5625	2 5/8	1 1/2	10	14	3 1/8	1 1/8	4	344182	1108.95	2.5031 - 2.5660	1227.85	1168.30	1148.30	1138.95	1128.65	1120.60
2.6250	2 5/8	1 1/2	10	14	3 1/8	1 1/8	4	344184	1150.05	2.5661 - 2.6280	1269.10	1209.45	1189.60	1180.05	1169.90	1161.80

*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	\$168.40	2	348114	\$200.80
5	.7841 - 1.0030	9 1/2	5/8	348105	187.85	2	348115	239.75
6	1.0031 - 1.2530	10	3/4	348106	207.40	3	348116	259.15
7	1.2531 - 1.6280	11	7/8	348107	226.80	3	348117	285.20
8	1.6281 - 2.0030	12	1 1/8	348108	252.70	4	348118	317.55
9	2.0031 - 2.5030	13	1 3/8	348109	304.55	4	348119	356.40
10	2.5031 - 3.0030	14	1 5/8	348110	395.95	5	348120	452.15



STRAIGHT SHANK



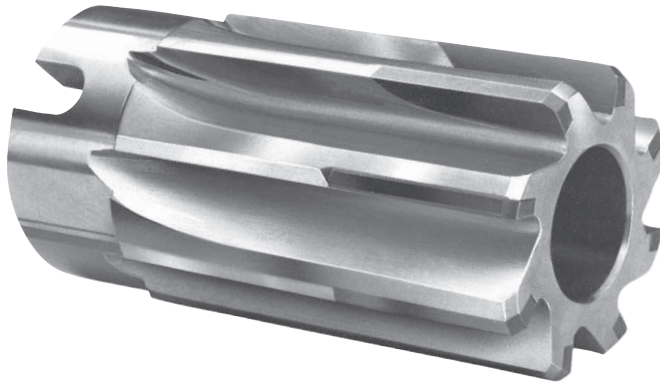
TAPER SHANK

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	\$265.20	.7221 - .7530	\$375.20	\$320.15	\$301.70	\$292.90	\$283.55	\$276.15
.7812	$\frac{25}{32}$	$\frac{3}{8}$	4	6	1 $\frac{3}{4}$	1	2 $\frac{1}{4}$	343125	270.40	.7531 - .7840	380.35	325.15	307.00	298.10	288.65	281.30
.8125	$\frac{13}{16}$	$\frac{1}{2}$	5	6	1 $\frac{15}{16}$	1	2 $\frac{1}{2}$	343126	270.40	.7841 - .8160	380.35	325.15	307.00	298.10	288.65	281.30
.8750	$\frac{7}{8}$	$\frac{1}{2}$	5	6	1 $\frac{15}{16}$	1	2 $\frac{1}{2}$	343128	302.25	.8161 - .8780	416.30	359.10	339.85	330.95	321.10	313.35
.9375	$\frac{15}{16}$	$\frac{1}{2}$	5	8	1 $\frac{15}{16}$	1	2 $\frac{1}{2}$	343130	302.25	.8781 - .9410	416.30	359.10	339.85	330.95	321.10	313.35
1.0000	1	$\frac{1}{2}$	5	8	1 $\frac{15}{16}$	1	2 $\frac{1}{2}$	343132	307.65	.9411 - 1.0030	421.75	364.55	345.55	336.40	326.55	318.85
1.0625	1 $\frac{1}{16}$	$\frac{5}{8}$	6	8	2 $\frac{1}{8}$	1	2 $\frac{3}{4}$	343134	318.50	1.0031 - 1.0660	432.45	375.35	356.05	347.05	337.35	329.50
1.1250	1 $\frac{1}{8}$	$\frac{5}{8}$	6	8	2 $\frac{1}{8}$	1	2 $\frac{3}{4}$	343136	323.75	1.0661 - 1.1280	437.75	380.70	361.50	352.50	342.65	335.05
1.1875	1 $\frac{3}{16}$	$\frac{5}{8}$	6	8	2 $\frac{1}{8}$	1 $\frac{1}{8}$	2 $\frac{3}{4}$	343138	329.30	1.1281 - 1.1905	443.10	386.15	367.00	357.95	348.05	340.50
1.2500	1 $\frac{1}{4}$	$\frac{5}{8}$	6	8	2 $\frac{1}{8}$	1 $\frac{1}{8}$	2 $\frac{3}{4}$	343140	350.85	1.1906 - 1.2530	464.80	407.70	388.60	379.40	369.75	361.95
1.3125	1 $\frac{5}{16}$	$\frac{3}{4}$	7	8	2 $\frac{1}{4}$	1 $\frac{1}{8}$	3	343142	356.05	1.2531 - 1.3155	470.10	413.05	394.00	384.85	375.20	367.40
1.3750	1 $\frac{3}{8}$	$\frac{3}{4}$	7	8	2 $\frac{1}{4}$	1 $\frac{1}{8}$	3	343144	366.90	1.3156 - 1.3780	481.00	423.80	404.70	395.50	385.80	378.10
1.4375	1 $\frac{7}{16}$	$\frac{3}{4}$	7	8	2 $\frac{1}{4}$	1 $\frac{1}{8}$	3	343146	377.75	1.3781 - 1.4405	491.70	434.60	415.60	406.45	396.50	389.00
1.5000	1 $\frac{1}{2}$	$\frac{3}{4}$	7	8	2 $\frac{1}{4}$	1 $\frac{1}{8}$	3	343148	394.00	1.4406 - 1.5030	507.95	450.85	431.70	422.55	412.75	405.15
1.5625	1 $\frac{9}{16}$	$\frac{3}{4}$	7	10	2 $\frac{1}{4}$	1 $\frac{1}{8}$	3	343150	456.15	1.5031 - 1.5660	575.05	515.55	495.55	485.95	475.70	467.70
1.6250	1 $\frac{5}{8}$	$\frac{3}{4}$	7	10	2 $\frac{1}{4}$	1 $\frac{1}{8}$	3	343152	478.55	1.5661 - 1.6280	597.65	538.00	518.00	508.50	498.30	490.25
1.6875	1 $\frac{11}{16}$	1	8	10	2 $\frac{3}{4}$	1 $\frac{1}{8}$	3 $\frac{1}{2}$	343154	518.10	1.6281 - 1.6910	637.20	577.50	557.55	548.05	537.85	529.80
1.7500	1 $\frac{3}{4}$	1	8	10	2 $\frac{3}{4}$	1 $\frac{1}{8}$	3 $\frac{1}{2}$	343156	518.10	1.6911 - 1.7530	637.20	577.50	557.55	548.05	537.85	529.80
1.8125	1 $\frac{13}{16}$	1	8	10	2 $\frac{3}{4}$	1 $\frac{1}{8}$	3 $\frac{1}{2}$	343158	557.40	1.7531 - 1.8160	676.30	616.80	596.80	587.35	577.10	569.05
1.8750	1 $\frac{7}{8}$	1	8	10	2 $\frac{3}{4}$	1 $\frac{1}{8}$	3 $\frac{1}{2}$	343160	557.40	1.8161 - 1.8780	676.30	616.80	596.80	587.35	577.10	569.05
1.9375	1 $\frac{15}{16}$	1	8	10	2 $\frac{3}{4}$	1 $\frac{1}{8}$	3 $\frac{1}{2}$	343162	596.95	1.8781 - 1.9410	715.75	656.20	636.25	626.90	616.65	608.60
2.0000	2	1	8	10	2 $\frac{3}{4}$	1 $\frac{1}{8}$	3 $\frac{1}{2}$	343164	596.95	1.9411 - 2.0030	715.75	656.20	636.25	626.90	616.65	608.60
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	641.85	2.0031 - 2.0660	760.85	701.35	681.25	671.85	661.55	653.65
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	641.85	2.0661 - 2.1280	760.85	701.35	681.25	671.85	661.55	653.65
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	698.20	2.1281 - 2.1905	817.15	757.55	737.60	728.10	718.00	709.80
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	698.20	2.1906 - 2.2530	817.15	757.55	737.60	728.10	718.00	709.80
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	737.60	2.2531 - 2.3155	856.65	796.95	777.10	767.50	757.30	749.25
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	737.60	2.3156 - 2.3780	856.65	796.95	777.10	767.50	757.30	749.25
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	777.15	2.3781 - 2.4405	896.10	836.50	816.55	807.05	796.80	788.75
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	777.15	2.4406 - 2.5030	896.10	836.50	816.55	807.05	796.80	788.75
2.5625	2 $\frac{9}{16}$	1 $\frac{1}{2}$	10	14	3 $\frac{1}{8}$	1 $\frac{1}{8}$	4	343182	853.05	2.5031 - 2.5660	971.90	912.35	892.45	882.95	872.75	864.70
2.6250	2 $\frac{5}{8}$	1 $\frac{1}{2}$	10	14	3 $\frac{1}{8}$	1 $\frac{1}{8}$	4	343184	884.70	2.5661 - 2.6280	1003.60	943.85	924.15	914.50	904.30	896.25
2.6875	2 $\frac{11}{16}$	1 $\frac{1}{2}$	10	14	3 $\frac{1}{8}$	1 $\frac{1}{8}$	4	343186	919.05	2.6281 - 2.6910	1038.00	978.45	958.45	949.00	938.75	930.70
2.7500	2 $\frac{3}{4}$	1 $\frac{1}{2}$	10	14	3 $\frac{1}{8}$	1 $\frac{1}{8}$	4	343188	950.90	2.6911 - 2.7530	1069.95	1010.25	990.30	980.90	970.70	962.55
2.8125	2 $\frac{13}{16}$	1 $\frac{1}{2}$	10	14	3 $\frac{1}{8}$	1 $\frac{1}{8}$	4	343190	984.35	2.7531 - 2.8160	1103.30	1043.75	1023.80	1014.30	1004.10	996.15
2.8750	2 $\frac{7}{8}$	1 $\frac{1}{2}$	10	14	3 $\frac{1}{8}$	1 $\frac{1}{8}$	4	343192	1023.80	2.8161 - 2.8780	1142.60	1083.20	1063.15	1053.80	1043.50	1035.55
2.9375	2 $\frac{15}{16}$	1 $\frac{1}{2}$	10	14	3 $\frac{1}{8}$	1 $\frac{1}{8}$	4	343194	1063.35	2.8781 - 2.9410	1182.35	1122.70	1102.70	1093.35	1083.15	1075.00
3.0000	3	1 $\frac{1}{2}$	10	14	3 $\frac{1}{8}$	1 $\frac{1}{8}$	4	343196	1102.85	2.9411 - 3.0030	1221.70	1162.25	1142.25	1132.90	1122.60	1114.55

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

Made in U.S.A.

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	\$385.10	\$337.25	\$321.15	\$313.60	\$305.45	\$298.95
.1281 - .1435 *	.1255	4	1 1/2	3457045EL	3458045EL	3459045EL	2 17/32 - 6 1/2	386.40	338.65	322.60	314.90	306.70	300.30
.1436 - .1590 *	.1411	4	1 1/2	345705EL	345805EL	345905EL	2 17/32 - 7	392.85	344.90	328.90	321.25	313.10	306.60
.1591 - .1750 *	.1567	4	1 1/2	3457055EL	3458055EL	3459055EL	2 25/32 - 8	400.25	352.30	336.40	328.75	320.55	314.10
.1751 - .1910 *	.1724	4	1 1/2	345706EL	345806EL	345906EL	4 17/32 - 9	410.85	363.00	346.90	339.40	331.15	324.70
.1911 - .2210 *	.1880	4	1 1/2	345707EL	345807EL	345907EL	5 1/32 - 10	424.65	376.95	360.95	353.30	345.00	338.65
.2211 - .2530 *	.2193	4	1 1/2	345708EL	345808EL	345908EL	6 1/32 - 12	452.15	404.25	388.40	380.70	372.50	366.10
.2531 - .2840 *	.2505	4	1 1/2	345709EL	345809EL	345909EL	6 1/32 - 12	475.70	427.95	411.90	404.20	396.05	389.45
.2841 - .3150	.2792	4	1 1/2	345710EL	345810EL	345910EL	6 1/32 - 12	337.55	289.75	273.80	266.05	257.85	251.50
.3151 - .3470	.2792	4	1 1/2	345711EL	345811EL	345911EL	6 1/32 - 12	337.55	289.75	273.80	266.05	257.85	251.50
.3471 - .3780	.3105	4	1 3/4	345712EL	345812EL	345912EL	7 1/32 - 14	348.60	300.85	284.85	277.10	268.95	262.45
.3781 - .4090	.3105	4	1 3/4	345713EL	345813EL	345913EL	7 1/32 - 14	348.60	300.85	284.85	277.10	268.95	262.45
.4091 - .4410	.3730	6	1 3/4	345714EL	345814EL	345914EL	7 1/32 - 14	359.70	311.80	295.85	288.15	280.00	273.50
.4411 - .4720	.3730	6	1 3/4	345715EL	345815EL	345915EL	7 1/32 - 14	359.70	311.80	295.85	288.15	280.00	273.50
.4721 - .5030	.4355	6	2	345716EL	345816EL	345916EL	8 1/32 - 16	367.15	319.15	303.25	295.65	287.50	281.00
.5031 - .5340	.4355	6	2	345717EL	345817EL	345917EL	8 1/32 - 16	367.15	319.15	303.25	295.65	287.50	281.00
.5341 - .5660	.4355	6	2	345718EL	345818EL	345918EL	8 1/32 - 16	374.00	326.05	310.15	302.45	294.25	287.80
.5661 - .5970	.4355	6	2	345719EL	345819EL	345919EL	8 1/32 - 16	374.00	326.05	310.15	302.45	294.25	287.80
.5971 - .6280	.5615	6	2 1/4	345720EL	345820EL	345920EL	9 1/32 - 18	381.85	333.95	317.95	310.35	302.25	295.70
.6281 - .6590	.5615	6	2 1/4	345721EL	345821EL	345921EL	9 1/32 - 18	381.85	333.95	317.95	310.35	302.25	295.70
.6591 - .6910	.5615	6	2 1/4	345722EL	345822EL	345922EL	9 1/32 - 18	382.95	335.10	319.00	311.45	303.25	296.80
.6911 - .7220	.5615	6	2 1/4	345723EL	345823EL	345923EL	9 1/32 - 18	382.95	335.10	319.00	311.45	303.25	296.80
.7221 - .7530	.6245	6	2 1/2	345724EL	345824EL	345924EL	9 17/32 - 18	411.05	363.15	347.05	339.55	331.45	324.90
.7531 - .7840	.6245	6	2 1/2	345725EL	345825EL	345925EL	9 17/32 - 18	498.85	453.25	437.90	430.75	422.95	416.80
.7841 - .8160	.6245	6	2 1/2	345726EL	345826EL	345926EL	9 17/32 - 18	514.70	469.10	453.85	446.65	438.80	432.70
.8161 - .8470	.6245	6	2 1/2	345727EL	345827EL	345927EL	9 17/32 - 18	520.70	475.10	459.75	452.55	444.80	438.65
.8471 - .8780	.7495	6	2 5/8	345728EL	345828EL	345928EL	10 1/32 - 18	531.70	486.05	470.80	463.60	455.75	449.55
.8781 - .9090	.7495	6	2 5/8	345729EL	345829EL	345929EL	10 1/32 - 18	554.05	508.40	493.15	485.95	478.15	472.00
.9091 - .9410	.7495	8	2 5/8	345730EL	345830EL	345930EL	10 1/32 - 18	559.60	513.95	498.70	491.50	483.65	477.60
.9411 - .9720	.7495	8	2 5/8	345731EL	345831EL	345931EL	10 1/32 - 18	564.90	519.30	504.05	496.85	489.05	482.90
.9721 - 1.0030	.8745	8	2 3/4	345732EL	345832EL	345932EL	10 17/32 - 18	578.10	532.50	517.25	510.05	502.15	496.00

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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 1/2	341606EL	342606EL	343506EL	4 17/32 - 9	\$491.55	\$443.75	\$427.65	\$420.05	\$411.90	\$405.40
.1911 - .2210 *	.1880	4	1 1/2	341607EL	342607EL	343507EL	5 1/2 - 10	510.50	462.60	446.55	438.95	430.85	424.35
.2211 - .2530 *	.2193	4	1 1/2	341608EL	342608EL	343508EL	6 1/2 - 12	567.15	519.30	503.20	495.70	487.35	481.00
.2531 - .2840 *	.2505	4	1 1/2	341609EL	342609EL	343509EL	6 1/2 - 12	594.65	546.75	530.70	523.15	514.85	508.40
.2841 - .3150	.2792	4	1 1/2	341610EL	342610EL	343510EL	6 1/2 - 12	439.75	391.90	375.80	368.25	359.95	353.60
.3151 - .3470	.2792	4	1 1/2	341611EL	342611EL	343511EL	6 1/2 - 12	439.75	391.90	375.80	368.25	359.95	353.60
.3471 - .3780	.3105	4	1 3/4	341612EL	342612EL	343512EL	7 1/2 - 14	448.35	400.50	384.55	376.95	368.70	362.30
.3781 - .4090	.3105	4	1 3/4	341613EL	342613EL	343513EL	7 1/2 - 14	448.35	400.50	384.55	376.95	368.70	362.30
.4091 - .4410	.3730	6	1 3/4	341614EL	342614EL	343514EL	7 1/2 - 14	450.25	402.35	386.30	378.80	370.55	364.15
.4411 - .4720	.3730	6	1 3/4	341615EL	342615EL	343515EL	7 1/2 - 14	450.25	402.35	386.30	378.80	370.55	364.15
.4721 - .5030	.4355	6	2	341616EL	342616EL	343516EL	8 1/2 - 16	489.80	441.90	425.95	418.30	410.10	403.65
.5031 - .5340	.4355	6	2	341617EL	342617EL	343517EL	8 1/2 - 16	489.80	441.90	425.95	418.30	410.10	403.65
.5341 - .5660	.4355	6	2	341618EL	342618EL	343518EL	8 1/2 - 16	493.25	445.40	429.40	421.75	413.55	407.00
.5661 - .5970	.4355	6	2	341619EL	342619EL	343519EL	8 1/2 - 16	493.25	445.40	429.40	421.75	413.55	407.00
.5971 - .6280	.5615	6	2 1/4	341620EL	342620EL	343520EL	9 1/2 - 18	503.00	455.15	439.05	431.45	423.25	416.80
.6281 - .6590	.5615	6	2 1/4	341621EL	342621EL	343521EL	9 1/2 - 18	503.00	455.15	439.05	431.45	423.25	416.80
.6591 - .6910	.5615	6	2 1/4	341622EL	342622EL	343522EL	9 1/2 - 18	508.40	460.60	444.55	436.90	428.70	422.25
.6911 - .7220	.5615	6	2 1/4	341623EL	342623EL	343523EL	9 1/2 - 18	508.40	460.60	444.55	436.90	428.70	422.25
.7221 - .7530	.6245	6	2 1/2	341624EL	342624EL	343524EL	9 17/32 - 18	529.35	481.45	465.50	457.75	449.55	443.10
.7531 - .7840	.6245	6	2 1/2	341625EL	342625EL	343525EL	9 17/32 - 18	603.30	557.70	542.45	535.15	527.45	521.20
.7841 - .8160	.6245	6	2 1/2	341626EL	342626EL	343526EL	9 17/32 - 18	624.95	579.40	564.15	556.85	549.05	542.90
.8161 - .8470	.6245	6	2 1/2	341627EL	342627EL	343527EL	9 17/32 - 18	630.75	585.20	569.95	562.70	554.80	548.65
.8471 - .8780	.7495	6	2 5/8	341628EL	342628EL	343528EL	10 1/2 - 18	634.65	589.15	573.90	566.60	558.80	552.65
.8781 - .9090	.7495	6	2 5/8	341629EL	342629EL	343529EL	10 1/2 - 18	659.35	613.80	598.50	591.20	583.45	577.35
.9091 - .9410	.7495	8	2 5/8	341630EL	342630EL	343530EL	10 1/2 - 18	670.70	625.10	609.85	602.55	594.80	588.60
.9411 - .9720	.7495	8	2 5/8	341631EL	342631EL	343531EL	10 1/2 - 18	674.35	628.85	613.60	606.30	598.40	592.25
.9721 - 1.0030	.8745	8	2 3/4	341632EL	342632EL	343532EL	10 17/32 - 18	693.70	648.15	633.00	625.70	617.80	611.65

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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 ½	344208EL	344308EL	344408EL	6 ½ ₃₂ - 12	\$542.55	\$485.20	\$465.95	\$456.90	\$447.10	\$439.20
.2531 - .2840 *	.2505	4	1 ½	344209EL	344309EL	344409EL	6 ½ ₃₂ - 12	570.90	513.40	494.25	485.10	475.25	467.55
.2841 - .3150	.2792	4	1 ½	344210EL	344310EL	344410EL	6 ½ ₃₂ - 12	405.15	347.75	328.60	319.30	309.50	301.75
.3151 - .3470	.2792	4	1 ½	344211EL	344311EL	344411EL	6 ½ ₃₂ - 12	405.15	347.75	328.60	319.30	309.50	301.75
.3471 - .3780	.3105	4	1 ¾	344212EL	344312EL	344412EL	7 ½ ₃₂ - 14	418.35	361.00	341.70	332.50	322.75	315.05
.3781 - .4090	.3105	4	1 ¾	344213EL	344313EL	344413EL	7 ½ ₃₂ - 14	418.35	361.00	341.70	332.50	322.75	315.05
.4091 - .4410	.3730	6	1 ¾	344214EL	344314EL	344414EL	7 ½ ₃₂ - 14	431.60	374.30	355.05	345.75	335.95	328.20
.4411 - .4720	.3730	6	1 ¾	344215EL	344315EL	344415EL	7 ½ ₃₂ - 14	431.60	374.30	355.05	345.75	335.95	328.20
.4721 - .5030	.4355	6	2	344216EL	344316EL	344416EL	8 ½ ₃₂ - 16	440.60	383.10	364.00	354.75	344.90	337.20
.5031 - .5340	.4355	6	2	344217EL	344317EL	344417EL	8 ½ ₃₂ - 16	440.60	383.10	364.00	354.75	344.90	337.20
.5341 - .5660	.4355	6	2	344218EL	344318EL	344418EL	8 ½ ₃₂ - 16	448.85	391.30	372.15	362.95	353.15	345.30
.5661 - .5970	.4355	6	2	344219EL	344319EL	344419EL	8 ½ ₃₂ - 16	448.85	391.30	372.15	362.95	353.15	345.30
.5971 - .6280	.5615	6	2 ¼	344220EL	344320EL	344420EL	9 ½ ₃₂ - 18	458.30	400.80	381.55	372.50	362.65	354.95
.6281 - .6590	.5615	6	2 ¼	344221EL	344321EL	344421EL	9 ½ ₃₂ - 18	458.30	400.80	381.55	372.50	362.65	354.95
.6591 - .6910	.5615	6	2 ¼	344222EL	344322EL	344422EL	9 ½ ₃₂ - 18	459.45	402.10	382.85	373.80	364.00	356.20
.6911 - .7220	.5615	6	2 ¼	344223EL	344323EL	344423EL	9 ½ ₃₂ - 18	459.45	402.10	382.85	373.80	364.00	356.20
.7221 - .7530	.6245	6	2 ½	344224EL	344324EL	344424EL	9 ½ ₃₂ - 18	493.30	435.90	416.65	407.45	397.65	390.00
.7531 - .7840	.6245	6	2 ½	344225EL	344325EL	344425EL	9 ½ ₃₂ - 18	568.65	513.95	495.60	487.05	477.70	470.25
.7841 - .8160	.6245	6	2 ½	344226EL	344326EL	344426EL	9 ½ ₃₂ - 18	585.00	530.40	512.00	503.35	494.00	486.65
.8161 - .8470	.6245	6	2 ½	344227EL	344327EL	344427EL	9 ½ ₃₂ - 18	590.90	536.25	517.85	509.25	499.90	492.55
.8471 - .8780	.7495	6	2 ⅝	344228EL	344328EL	344428EL	10 ½ ₃₂ - 18	593.20	538.45	520.20	511.55	502.15	494.80
.8781 - .9090	.7495	6	2 ⅝	344229EL	344329EL	344429EL	10 ½ ₃₂ - 18	612.95	558.40	540.00	531.40	522.00	514.65
.9091 - .9410	.7495	8	2 ⅝	344230EL	344330EL	344430EL	10 ½ ₃₂ - 18	633.60	579.00	560.60	551.95	542.60	535.25
.9411 - .9720	.7495	8	2 ⅝	344231EL	344331EL	344431EL	10 ½ ₃₂ - 18	637.40	582.70	564.35	555.80	546.45	539.10
.9721 - 1.0030	.8745	8	2 ¾	344232EL	344332EL	344432EL	10 ½ ₃₂ - 18	660.65	606.00	587.70	579.10	569.75	562.25

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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 ½	341108EL	341308EL	341508EL	6 ½ ₃₂ - 12	\$680.50	\$623.10	\$604.00	\$594.80	\$584.85	\$577.25
.2531 - .2840 *	.2505	4	1 ½	341109EL	341309EL	341509EL	6 ½ ₃₂ - 12	713.55	656.10	636.80	627.75	617.80	610.15
.2841 - .3150	.2792	4	1 ½	341110EL	341310EL	341510EL	6 ½ ₃₂ - 12	527.60	470.10	451.00	441.80	431.85	424.25
.3151 - .3470	.2792	4	1 ½	341111EL	341311EL	341511EL	6 ½ ₃₂ - 12	527.60	470.10	451.00	441.80	431.85	424.25
.3471 - .3780	.3105	4	1 ¾	341112EL	341312EL	341512EL	7 ½ ₃₂ - 14	538.10	480.60	461.30	452.25	442.50	434.70
.3781 - .4090	.3105	4	1 ¾	341113EL	341313EL	341513EL	7 ½ ₃₂ - 14	538.10	480.60	461.30	452.25	442.50	434.70
.4091 - .4410	.3730	6	1 ¾	341114EL	341314EL	341514EL	7 ½ ₃₂ - 14	540.25	482.90	463.65	454.55	444.65	436.90
.4411 - .4720	.3730	6	1 ¾	341115EL	341315EL	341515EL	7 ½ ₃₂ - 14	540.25	482.90	463.65	454.55	444.65	436.90
.4721 - .5030	.4355	6	2	341116EL	341316EL	341516EL	8 ½ ₃₂ - 16	587.75	530.40	511.05	501.90	492.10	484.45
.5031 - .5340	.4355	6	2	341117EL	341317EL	341517EL	8 ½ ₃₂ - 16	587.75	530.40	511.05	501.90	492.10	484.45
.5341 - .5660	.4355	6	2	341118EL	341318EL	341518EL	8 ½ ₃₂ - 16	591.90	534.35	515.25	506.10	496.25	488.50
.5661 - .5970	.4355	6	2	341119EL	341319EL	341519EL	8 ½ ₃₂ - 16	591.90	534.35	515.25	506.10	496.25	488.50
.5971 - .6280	.5615	6	2 ¼	341120EL	341320EL	341520EL	9 ½ ₃₂ - 18	603.60	546.15	526.90	517.75	507.95	500.15
.6281 - .6590	.5615	6	2 ¼	341121EL	341321EL	341521EL	9 ½ ₃₂ - 18	603.60	546.15	526.90	517.75	507.95	500.15
.6591 - .6910	.5615	6	2 ¼	341122EL	341322EL	341522EL	9 ½ ₃₂ - 18	610.15	552.70	533.55	524.45	514.45	506.80
.6911 - .7220	.5615	6	2 ¼	341123EL	341323EL	341523EL	9 ½ ₃₂ - 18	610.15	552.70	533.55	524.45	514.45	506.80
.7221 - .7530	.6245	6	2 ½	341124EL	341324EL	341524EL	9 ½ ₃₂ - 18	635.20	577.80	558.55	549.50	539.55	531.95
.7531 - .7840	.6245	6	2 ½	341125EL	341325EL	341525EL	9 ½ ₃₂ - 18	641.25	586.60	568.35	559.60	550.20	542.90
.7841 - .8160	.6245	6	2 ½	341126EL	341326EL	341526EL	9 ½ ₃₂ - 18	662.25	607.55	589.35	580.55	571.20	563.90
.8161 - .8470	.6245	6	2 ½	341127EL	341327EL	341527EL	9 ½ ₃₂ - 18	668.25	613.60	595.25	586.55	577.15	569.90
.8471 - .8780	.7495	6	2 ⅝	341128EL	341328EL	341528EL	10 ½ ₃₂ - 18	670.40	615.75	597.50	588.75	579.30	572.05
.8781 - .9090	.7495	6	2 ⅝	341129EL	341329EL	341529EL	10 ½ ₃₂ - 18	694.35	639.65	621.50	612.65	603.30	596.05
.9091 - .9410	.7495	8	2 ⅝	341130EL	341330EL	341530EL	10 ½ ₃₂ - 18	715.60	660.95	642.65	633.90	624.55	617.20
.9411 - .9720	.7495	8	2 ⅝	341131EL	341331EL	341531EL	10 ½ ₃₂ - 18	719.35	664.70	646.45	637.65	628.30	621.00
.9721 - 1.0030	.8745	8	2 ¾	341132EL	341332EL	341532EL	10 ½ ₃₂ - 18	747.70	693.05	674.75	666.00	656.65	649.40

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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 ½	348208EL	348308EL	348408EL	6 ½ ₃₂ - 12	\$542.55	\$485.20	\$465.95	\$456.90	\$447.10	\$439.20
.2531 - .2840 *	.2505	4	1 ½	348209EL	348309EL	348409EL	6 ½ ₃₂ - 12	570.90	513.40	494.25	485.10	475.25	467.55
.2841 - .3150	.2792	4	1 ½	348210EL	348310EL	348410EL	6 ½ ₃₂ - 12	405.15	347.75	328.60	319.30	309.50	301.75
.3151 - .3470	.2792	4	1 ½	348211EL	348311EL	348411EL	6 ½ ₃₂ - 12	405.15	347.75	328.60	319.30	309.50	301.75
.3471 - .3780	.3105	4	1 ¾	348212EL	348312EL	348412EL	7 ½ ₃₂ - 14	418.35	361.00	341.70	332.50	322.75	315.05
.3781 - .4090	.3105	4	1 ¾	348213EL	348313EL	348413EL	7 ½ ₃₂ - 14	418.35	361.00	341.70	332.50	322.75	315.05
.4091 - .4410	.3730	6	1 ¾	348214EL	348314EL	348414EL	7 ½ ₃₂ - 14	431.60	374.30	355.05	345.75	335.95	328.20
.4411 - .4720	.3730	6	1 ¾	348215EL	348315EL	348415EL	7 ½ ₃₂ - 14	431.60	374.30	355.05	345.75	335.95	328.20
.4721 - .5030	.4355	6	2	348216EL	348316EL	348416EL	8 ½ ₃₂ - 16	440.60	383.10	364.00	354.75	344.90	337.20
.5031 - .5340	.4355	6	2	348217EL	348317EL	348417EL	8 ½ ₃₂ - 16	440.60	383.10	364.00	354.75	344.90	337.20
.5341 - .5660	.4355	6	2	348218EL	348318EL	348418EL	8 ½ ₃₂ - 16	448.85	391.30	372.15	362.95	353.15	345.30
.5661 - .5970	.4355	6	2	348219EL	348319EL	348419EL	8 ½ ₃₂ - 16	448.85	391.30	372.15	362.95	353.15	345.30
.5971 - .6280	.5615	6	2 ¼	348220EL	348320EL	348420EL	9 ½ ₃₂ - 18	458.30	400.80	381.55	372.50	362.65	354.95
.6281 - .6590	.5615	6	2 ¼	348221EL	348321EL	348421EL	9 ½ ₃₂ - 18	458.30	400.80	381.55	372.50	362.65	354.95
.6591 - .6910	.5615	6	2 ¼	348222EL	348322EL	348422EL	9 ½ ₃₂ - 18	459.45	402.10	382.85	373.80	364.00	356.20
.6911 - .7220	.5615	6	2 ¼	348223EL	348323EL	348423EL	9 ½ ₃₂ - 18	459.45	402.10	382.85	373.80	364.00	356.20
.7221 - .7530	.6245	6	2 ½	348224EL	348324EL	348424EL	9 ½ ₃₂ - 18	493.30	435.90	416.65	407.45	397.65	390.00
.7531 - .7840	.6245	6	2 ½	348225EL	348325EL	348425EL	9 ½ ₃₂ - 18	568.65	513.95	495.60	487.05	477.70	470.25
.7841 - .8160	.6245	6	2 ½	348226EL	348326EL	348426EL	9 ½ ₃₂ - 18	585.00	530.40	512.00	503.35	494.00	486.65
.8161 - .8470	.6245	6	2 ½	348227EL	348327EL	348427EL	9 ½ ₃₂ - 18	590.90	536.25	517.85	509.25	499.90	492.55
.8471 - .8780	.7495	6	2 ⅝	348228EL	348328EL	348428EL	10 ½ ₃₂ - 18	593.20	538.45	520.20	511.55	502.15	494.80
.8781 - .9090	.7495	6	2 ⅝	348229EL	348329EL	348429EL	10 ½ ₃₂ - 18	612.95	558.40	540.00	531.40	522.00	514.65
.9091 - .9410	.7495	8	2 ⅝	348230EL	348330EL	348430EL	10 ½ ₃₂ - 18	633.60	579.00	560.60	551.95	542.60	535.25
.9411 - .9720	.7495	8	2 ⅝	348231EL	348331EL	348431EL	10 ½ ₃₂ - 18	637.40	582.70	564.35	555.80	546.45	539.10
.9721 - 1.0030	.8745	8	2 ¾	348232EL	348332EL	348432EL	10 ½ ₃₂ - 18	660.65	606.00	587.70	579.10	569.75	562.25

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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	\$680.50	\$623.10	\$604.00	\$594.80	\$584.85	\$577.25
.2531 - .2840 *	.2505	4	1 ½	342709EL	342809EL	342909EL	6 ½ ₃₂ - 12	713.55	656.10	636.80	627.75	617.80	610.15
.2841 - .3150	.2792	4	1 ½	342710EL	342810EL	342910EL	6 ½ ₃₂ - 12	527.60	470.10	451.00	441.80	431.85	424.25
.3151 - .3470	.2792	4	1 ½	342711EL	342811EL	342911EL	6 ½ ₃₂ - 12	527.60	470.10	451.00	441.80	431.85	424.25
.3471 - .3780	.3105	4	1 ¾	342712EL	342812EL	342912EL	7 ½ ₃₂ - 14	538.10	480.60	461.30	452.25	442.50	434.70
.3781 - .4090	.3105	4	1 ¾	342713EL	342813EL	342913EL	7 ½ ₃₂ - 14	538.10	480.60	461.30	452.25	442.50	434.70
.4091 - .4410	.3730	6	1 ¾	342714EL	342814EL	342914EL	7 ½ ₃₂ - 14	540.25	482.90	463.65	454.55	444.65	436.90
.4411 - .4720	.3730	6	1 ¾	342715EL	342815EL	342915EL	7 ½ ₃₂ - 14	540.25	482.90	463.65	454.55	444.65	436.90
.4721 - .5030	.4355	6	2	342716EL	342816EL	342916EL	8 ½ ₃₂ - 16	587.75	530.40	511.05	501.90	492.10	484.45
.5031 - .5340	.4355	6	2	342717EL	342817EL	342917EL	8 ½ ₃₂ - 16	587.75	530.40	511.05	501.90	492.10	484.45
.5341 - .5660	.4355	6	2	342718EL	342818EL	342918EL	8 ½ ₃₂ - 16	591.90	534.35	515.25	506.10	496.25	488.50
.5661 - .5970	.4355	6	2	342719EL	342819EL	342919EL	8 ½ ₃₂ - 16	591.90	534.35	515.25	506.10	496.25	488.50
.5971 - .6280	.5615	6	2 ¼	342720EL	342820EL	342920EL	9 ½ ₃₂ - 18	603.60	546.15	526.90	517.75	507.95	500.15
.6281 - .6590	.5615	6	2 ¼	342721EL	342821EL	342921EL	9 ½ ₃₂ - 18	603.60	546.15	526.90	517.75	507.95	500.15
.6591 - .6910	.5615	6	2 ¼	342722EL	342822EL	342922EL	9 ½ ₃₂ - 18	610.15	552.70	533.55	524.45	514.45	506.80
.6911 - .7220	.5615	6	2 ¼	342723EL	342823EL	342923EL	9 ½ ₃₂ - 18	610.15	552.70	533.55	524.45	514.45	506.80
.7221 - .7530	.6245	6	2 ½	342724EL	342824EL	342924EL	9 ½ ₃₂ - 18	635.20	577.80	558.55	549.50	539.55	531.95
.7531 - .7840	.6245	6	2 ½	342725EL	342825EL	342925EL	9 ½ ₃₂ - 18	670.70	615.95	597.80	589.00	579.55	572.25
.7841 - .8160	.6245	6	2 ½	342726EL	342826EL	342926EL	9 ½ ₃₂ - 18	693.20	638.55	620.25	611.50	602.15	594.90
.8161 - .8470	.6245	6	2 ½	342727EL	342827EL	342927EL	9 ½ ₃₂ - 18	699.10	644.45	626.15	617.40	608.05	600.80
.8471 - .8780	.7495	6	2 ⅝	342728EL	342828EL	342928EL	10 ½ ₃₂ - 18	701.20	646.55	628.30	619.55	610.15	602.85
.8781 - .9090	.7495	6	2 ⅝	342729EL	342829EL	342929EL	10 ½ ₃₂ - 18	727.20	672.55	654.20	645.45	636.10	628.85
.9091 - .9410	.7495	8	2 ⅝	342730EL	342830EL	342930EL	10 ½ ₃₂ - 18	748.50	693.75	675.60	666.80	657.45	650.15
.9411 - .9720	.7495	8	2 ⅝	342731EL	342831EL	342931EL	10 ½ ₃₂ - 18	752.15	697.50	679.20	670.45	661.10	653.80
.9721 - 1.0030	.8745	8	2 ¾	342732EL	342832EL	342932EL	10 ½ ₃₂ - 18	782.30	727.65	709.40	700.60	691.25	683.95

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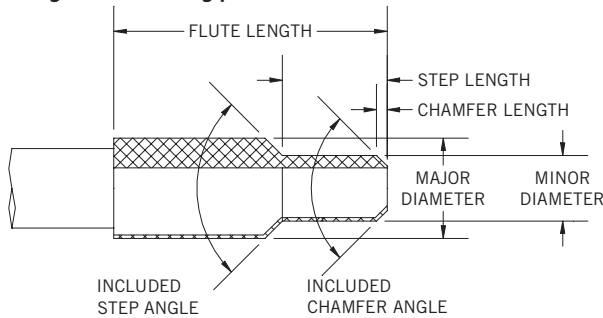
CARBIDE TIPPED STRAIGHT STEP REAMERS

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	\$215.10	\$161.40	\$143.50	\$134.90	\$125.80	\$118.60	\$108.10
.2041 - .2210	.1920	.2075	4	1 1/4	5	345707ST	345807ST	345907ST	215.10	161.40	143.50	134.90	125.80	118.60	108.10
.2211 - .2380	.2080	.2265	4	1 1/2	6	34572344ST	34582344ST	34592344ST	215.10	161.40	143.50	134.90	125.80	118.60	108.10
.2381 - .2530	.2240	.2405	4	1 1/2	6	345708ST	345808ST	345908ST	215.10	161.40	143.50	134.90	125.80	118.60	108.10
.2531 - .2840	.2380	.2485	4	1 1/2	6	345709ST	345809ST	345909ST	217.55	163.90	145.95	137.45	128.30	121.05	110.55
.2841 - .3150	.2670	.2792	4	1 1/2	6	345710ST	345810ST	345910ST	217.55	163.90	145.95	137.45	128.30	121.05	110.55
.3151 - .3470	.2960	.2792	4	1 1/2	6	345711ST	345811ST	345911ST	221.35	167.80	149.75	141.40	132.15	124.95	114.45
.3471 - .3780	.3260	.3105	4	1 3/4	7	345712ST	345812ST	345912ST	221.35	167.80	149.75	141.40	132.15	124.95	114.45
.3781 - .4090	.3550	.3105	4	1 3/4	7	345713ST	345813ST	345913ST	226.95	173.55	155.50	147.00	137.80	130.55	120.10
.4091 - .4410	.3850	.3730	6	1 3/4	7	345714ST	345814ST	345914ST	237.00	183.35	165.40	156.85	147.70	140.40	130.10
.4411 - .4720	.4150	.3730	6	1 3/4	7	345715ST	345815ST	345915ST	247.25	193.70	175.75	167.25	158.05	150.85	140.35
.4721 - .5030	.4440	.4355	6	2	8	345716ST	345816ST	345916ST	265.00	207.55	188.35	179.20	169.40	161.65	150.40
.5031 - .5340	.4730	.4355	6	2	8	345717ST	345817ST	345917ST	269.25	211.95	192.70	183.60	173.70	165.85	154.75
.5341 - .5660	.5020	.4355	6	2	8	345718ST	345818ST	345918ST	269.25	211.95	192.70	183.60	173.70	165.85	154.75
.5661 - .5970	.5320	.4355	6	2	8	345719ST	345819ST	345919ST	275.25	217.90	198.70	189.50	179.75	171.95	160.65
.5971 - .6280	.5610	.5615	6	2 1/4	9	345720ST	345820ST	345920ST	275.25	217.90	198.70	189.50	179.75	171.95	160.65
.6281 - .6590	.5900	.5615	6	2 1/4	9	345721ST	345821ST	345921ST	278.25	220.85	201.60	192.40	182.60	174.85	163.65
.6591 - .6910	.6200	.5615	6	2 1/4	9	345722ST	345822ST	345922ST	278.25	220.85	201.60	192.40	182.60	174.85	163.65
.6911 - .7220	.6500	.5615	6	2 1/4	9	345723ST	345823ST	345923ST	285.50	228.10	208.95	199.85	190.00	182.25	171.00
.7221 - .7530	.6790	.6245	6	2 1/2	9 1/2	345724ST	345824ST	345924ST	285.50	228.10	208.95	199.85	190.00	182.25	171.00
.7531 - .7840	.7080	.6245	6	2 1/2	9 1/2	345725ST	345825ST	345925ST	291.40	234.00	214.95	205.75	195.75	188.20	176.90
.7841 - .8160	.7370	.6245	6	2 1/2	9 1/2	345726ST	345826ST	345926ST	291.40	234.00	214.95	205.75	195.75	188.20	176.90
.8161 - .8470	.7670	.6245	6	2 1/2	9 1/2	345727ST	345827ST	345927ST	298.40	241.05	221.85	212.70	202.90	195.15	183.95
.8471 - .8780	.7970	.7495	6	2 3/8	10	345728ST	345828ST	345928ST	309.75	250.20	230.20	220.75	210.50	202.50	190.85
.8781 - .9090	.8260	.7495	6	2 3/8	10	345729ST	345829ST	345929ST	341.25	281.70	261.70	252.35	242.00	234.00	222.35
.9091 - .9410	.8550	.7495	8	2 3/8	10	345730ST	345830ST	345930ST	341.25	281.70	261.70	252.35	242.00	234.00	222.35
.9411 - .9720	.8850	.7495	8	2 3/8	10	345731ST	345831ST	345931ST	351.90	292.25	272.35	262.85	252.55	244.50	232.85
.9721 - 1.0030	.9140	.8745	8	2 3/4	10 1/2	345732ST	345832ST	345932ST	351.90	292.25	272.35	262.85	252.55	244.50	232.85
1.0031 - 1.0660	.9430	.8745	8	2 3/4	10 1/2	345734ST	345834ST	345934ST	354.90	297.80	278.45	269.40	259.70	252.05	240.90
1.0661 - 1.1280	1.0020	.8745	8	2 3/8	11	345736ST	345836ST	345936ST	374.75	317.65	298.65	289.60	279.70	272.05	260.85
1.1281 - 1.1905	1.0610	.9995	8	2 3/8	11	345738ST	345838ST	345938ST	386.80	329.50	310.45	301.40	291.60	283.85	272.70
1.1906 - 1.2530	1.1200	.9995	8	3	11 1/2	345740ST	345840ST	345940ST	408.85	351.80	332.50	323.55	313.80	306.05	294.95
1.2531 - 1.3155	1.1780	.9995	8	3	11 1/2	345742ST	345842ST	345942ST	417.00	359.85	340.80	331.75	321.95	314.20	303.00
1.3156 - 1.3780	1.2370	.9995	8	3 1/4	12	345744ST	345844ST	345944ST	437.15	380.05	361.00	351.90	342.10	334.35	323.15
1.3781 - 1.4405	1.2960	.9995	8	3 1/4	12	345746ST	345846ST	345946ST	463.80	406.65	387.45	378.40	368.60	361.00	349.75
1.4406 - 1.5030	1.3550	1.2495	8	3 1/2	12 1/2	345748ST	345848ST	345948ST	474.10	417.00	397.95	388.85	379.05	371.35	360.10

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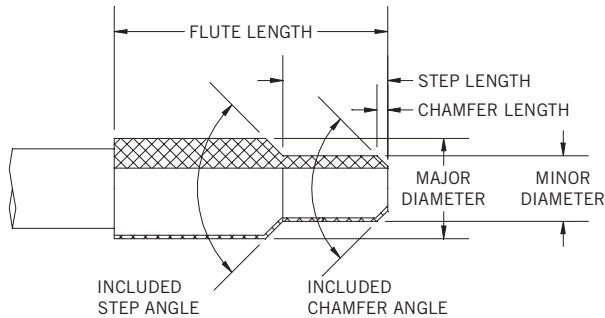
CARBIDE TIPPED RIGHT SPIRAL STEP REAMERS

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	\$237.85	\$187.50	\$170.80	\$162.65	\$154.15	\$147.40	\$137.50
.3151 - .3470	.2960	.2792	4	1 1/2	6	344211ST	344311ST	344411ST	251.80	201.50	184.55	176.75	168.00	161.35	151.45
.3471 - .3780	.3260	.3105	4	1 3/4	7	344212ST	344312ST	344412ST	253.15	202.95	186.10	178.15	169.55	162.65	153.00
.3781 - .4090	.3550	.3105	4	1 3/4	7	344213ST	344313ST	344413ST	260.00	209.70	192.95	184.90	176.30	169.55	159.65
.4091 - .4410	.3850	.3730	6	1 3/4	7	344214ST	344314ST	344414ST	266.05	215.90	199.00	191.10	182.45	175.70	165.80
.4411 - .4720	.4150	.3730	6	1 3/4	7	344215ST	344315ST	344415ST	276.65	226.40	209.65	201.60	193.10	186.20	176.35
.4721 - .5030	.4440	.4355	6	2	8	344216ST	344316ST	344416ST	297.10	243.50	225.50	217.00	207.85	200.60	190.15
.5031 - .5340	.4730	.4355	6	2	8	344217ST	344317ST	344417ST	302.60	249.05	231.10	222.60	213.40	206.20	195.70
.5341 - .5660	.5020	.4355	6	2	8	344218ST	344318ST	344418ST	302.60	249.05	231.10	222.60	213.40	206.20	195.70
.5661 - .5970	.5320	.4355	6	2	8	344219ST	344319ST	344419ST	308.35	254.85	237.00	228.40	219.20	212.00	201.50
.5971 - .6280	.5610	.5615	6	2 1/4	9	344220ST	344320ST	344420ST	308.35	254.85	237.00	228.40	219.20	212.00	201.50
.6281 - .6590	.5900	.5615	6	2 1/4	9	344221ST	344321ST	344421ST	314.70	261.40	243.20	234.80	225.50	218.30	207.85
.6591 - .6910	.6200	.5615	6	2 1/4	9	344222ST	344322ST	344422ST	327.75	274.10	256.15	247.60	238.45	231.35	220.75
.6911 - .7220	.6500	.5615	6	2 1/4	9	344223ST	344323ST	344423ST	331.05	277.45	259.55	251.05	241.85	234.55	224.20
.7221 - .7530	.6790	.6245	6	2 1/2	9 1/2	344224ST	344324ST	344424ST	334.35	280.75	262.85	254.30	245.20	237.90	227.35
.7531 - .7840	.7080	.6245	6	2 1/2	9 1/2	344225ST	344325ST	344425ST	340.40	286.80	268.90	260.40	251.20	244.00	233.50
.7841 - .8160	.7370	.6245	6	2 1/2	9 1/2	344226ST	344326ST	344426ST	340.40	286.80	268.90	260.40	251.20	244.00	233.50
.8161 - .8470	.7670	.6245	6	2 1/2	9 1/2	344227ST	344327ST	344427ST	353.05	299.60	281.60	273.10	263.75	256.60	246.10
.8471 - .8780	.7970	.7495	6	2 3/8	10	344228ST	344328ST	344428ST	366.40	310.90	292.20	283.45	273.80	266.35	255.45
.8781 - .9090	.8260	.7495	6	2 3/8	10	344229ST	344329ST	344429ST	408.45	352.75	334.10	325.30	315.80	308.30	297.25
.9091 - .9410	.8550	.7495	8	2 3/8	10	344230ST	344330ST	344430ST	408.45	352.75	334.10	325.30	315.80	308.30	297.25
.9411 - .9720	.8850	.7495	8	2 3/8	10	344231ST	344331ST	344431ST	423.05	367.40	348.85	339.80	330.35	322.95	312.05
.9721 - 1.0030	.9140	.8745	8	2 3/4	10 1/2	344232ST	344332ST	344432ST	423.05	367.40	348.85	339.80	330.35	322.95	312.05
1.0031 - 1.0660	.9430	.8745	8	2 3/4	10 1/2	344234ST	344334ST	344434ST	477.70	422.05	403.40	394.50	385.00	377.60	366.70
1.0661 - 1.1280	1.0020	.8745	8	2 3/8	11	344236ST	344336ST	344436ST	489.05	433.40	414.75	405.95	396.35	388.90	377.95
1.1281 - 1.1905	1.0610	.9995	8	2 3/8	11	344238ST	344338ST	344438ST	508.40	452.90	434.20	425.40	415.85	408.40	397.45
1.1906 - 1.2530	1.1200	.9995	8	3	11 1/2	344240ST	344340ST	344440ST	531.25	475.70	457.15	448.15	438.75	431.25	420.25
1.2531 - 1.3155	1.1780	.9995	8	3	11 1/2	344242ST	344342ST	344442ST	576.35	520.70	502.00	493.25	483.60	476.15	465.25
1.3156 - 1.3780	1.2370	.9995	8	3 1/4	12	344244ST	344344ST	344444ST	620.65	565.00	546.50	537.60	528.05	520.55	509.80
1.3781 - 1.4405	1.2960	.9995	8	3 1/4	12	344246ST	344346ST	344446ST	650.90	595.25	576.70	567.80	558.40	550.80	540.00
1.4406 - 1.5030	1.3550	1.2495	8	3 1/2	12 1/2	344248ST	344348ST	344448ST	681.50	626.00	607.30	598.50	589.00	581.55	570.50

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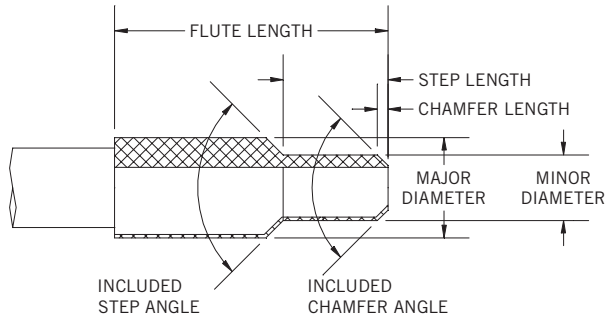
CARBIDE TIPPED LEFT SPIRAL STEP REAMERS

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	\$253.65	\$200.05	\$182.20	\$173.60	\$164.35	\$157.15	\$146.70
.3151 - .3470	.2960	.2792	4	1 1/2	6	348211ST	348311ST	348411ST	268.65	215.00	197.00	188.50	179.30	172.10	161.50
.3471 - .3780	.3260	.3105	4	1 3/4	7	348212ST	348312ST	348412ST	270.10	216.40	198.60	190.00	180.80	173.60	163.05
.3781 - .4090	.3550	.3105	4	1 3/4	7	348213ST	348313ST	348413ST	277.25	223.60	205.80	197.20	188.00	180.80	170.30
.4091 - .4410	.3850	.3730	6	1 3/4	7	348214ST	348314ST	348414ST	283.75	230.20	212.25	203.80	194.60	187.40	176.90
.4411 - .4720	.4150	.3730	6	1 3/4	7	348215ST	348315ST	348415ST	295.10	241.45	223.50	215.10	205.90	198.70	188.20
.4721 - .5030	.4440	.4355	6	2	8	348216ST	348316ST	348416ST	305.05	250.10	231.55	222.80	213.40	206.05	195.25
.5031 - .5340	.4730	.4355	6	2	8	348217ST	348317ST	348417ST	310.80	255.80	237.30	228.50	219.20	211.80	200.80
.5341 - .5660	.5020	.4355	6	2	8	348218ST	348318ST	348418ST	310.80	255.80	237.30	228.50	219.20	211.80	200.80
.5661 - .5970	.5320	.4355	6	2	8	348219ST	348319ST	348419ST	316.80	261.75	243.20	234.45	225.10	217.70	206.80
.5971 - .6280	.5610	.5615	6	2 1/4	9	348220ST	348320ST	348420ST	316.80	261.75	243.20	234.45	225.10	217.70	206.80
.6281 - .6590	.5900	.5615	6	2 1/4	9	348221ST	348321ST	348421ST	323.25	268.20	249.80	241.05	231.55	224.20	213.40
.6591 - .6910	.6200	.5615	6	2 1/4	9	348222ST	348322ST	348422ST	336.50	281.45	263.05	254.30	244.80	237.40	226.65
.6911 - .7220	.6500	.5615	6	2 1/4	9	348223ST	348323ST	348423ST	339.85	285.00	266.60	257.70	248.40	241.00	230.05
.7221 - .7530	.6790	.6245	6	2 1/2	9 1/2	348224ST	348324ST	348424ST	343.40	288.30	269.90	261.15	251.70	244.30	233.55
.7531 - .7840	.7080	.6245	6	2 1/2	9 1/2	348225ST	348325ST	348425ST	349.60	294.50	276.15	267.30	257.75	250.40	239.70
.7841 - .8160	.7370	.6245	6	2 1/2	9 1/2	348226ST	348326ST	348426ST	349.60	294.50	276.15	267.30	257.75	250.40	239.70
.8161 - .8470	.7670	.6245	6	2 1/2	9 1/2	348227ST	348327ST	348427ST	362.55	307.50	289.10	280.30	270.90	263.50	252.70
.8471 - .8780	.7970	.7495	6	2 1/2	10	348228ST	348328ST	348428ST	376.20	319.10	300.00	290.90	281.15	273.40	262.20
.8781 - .9090	.8260	.7495	6	2 1/2	10	348229ST	348329ST	348429ST	419.45	362.25	343.25	334.05	324.25	316.50	305.35
.9091 - .9410	.8550	.7495	8	2 5/8	10	348230ST	348330ST	348430ST	419.45	362.25	343.25	334.05	324.25	316.50	305.35
.9411 - .9720	.8850	.7495	8	2 5/8	10	348231ST	348331ST	348431ST	434.45	377.35	358.10	349.00	339.35	331.60	320.40
.9721 - 1.0030	.9140	.8745	8	2 3/4	10 1/2	348232ST	348332ST	348432ST	434.45	377.35	358.10	349.00	339.35	331.60	320.40
1.0031 - 1.0660	.9430	.8745	8	2 3/4	10 1/2	348234ST	348334ST	348434ST	490.40	433.40	414.20	405.15	395.35	387.70	376.35
1.0661 - 1.1280	1.0020	.8745	8	2 5/8	11	348236ST	348336ST	348436ST	502.00	445.05	425.85	416.75	407.00	399.35	388.15
1.1281 - 1.1905	1.0610	.9995	8	2 5/8	11	348238ST	348338ST	348438ST	522.00	464.90	445.85	436.75	426.95	419.35	408.00
1.1906 - 1.2530	1.1200	.9995	8	3	11 1/2	348240ST	348340ST	348440ST	545.50	488.50	469.40	460.30	450.45	442.80	431.55
1.2531 - 1.3155	1.1780	.9995	8	3	11 1/2	348242ST	348342ST	348442ST	591.80	534.65	515.55	506.45	496.70	488.80	477.75
1.3156 - 1.3780	1.2370	.9995	8	3 1/4	12	348244ST	348344ST	348444ST	637.35	580.30	561.10	551.95	542.20	534.40	523.35
1.3781 - 1.4405	1.2960	.9995	8	3 1/4	12	348246ST	348346ST	348446ST	668.40	611.35	592.10	583.00	573.35	565.70	554.50
1.4406 - 1.5030	1.3550	1.2495	8	3 1/2	12 1/2	348248ST	348348ST	348448ST	699.90	642.65	623.40	614.45	604.60	596.95	585.85

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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	-	-	-	-	-	-	-	-	-	-

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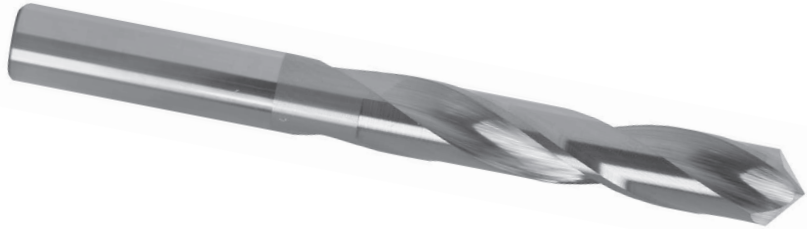
*500kg

Made in U.S.A.

SOLID CARBIDE JOBBERS LENGTH TWIST DRILLS

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

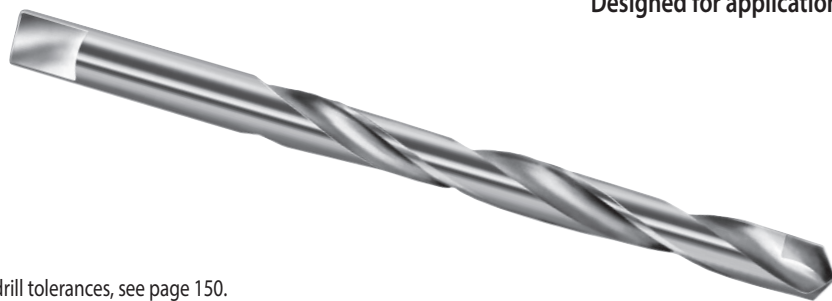
TOOL DIAMETER		LENGTH		TYPE 3860 EDP NO.	PRICE EACH
DEC.	FRAC./mm WIRE/LTR	FLT	OAL		
.0312	1/32	3/16	1 1/4	3860002	\$19.70
.0320	67	5/16	1 1/4	38600320	19.70
.0330	66	5/16	1 1/4	38600330	19.70
.0350	65	5/16	1 3/8	38600350	19.70
.0360	64	5/8	1 3/8	38600360	19.70
.0370	63	5/8	1 3/8	38600370	19.70
.0380	62	5/8	1 3/8	38600380	19.70
.0390	61	5/8	1 3/8	38600390	19.70
.0394	1.0mm	16	38	3860010	23.60
.0400	60	3/4	1 1/2	38600400	19.70
.0410	59	3/4	1 1/2	38600410	19.70
.0420	58	3/4	1 1/2	38600420	19.70
.0430	57	3/4	1 1/2	38600430	19.70
.0465	56	3/4	1 1/2	38600465	19.70
.0469	3/64	3/4	1 1/2	3860003	19.70
.0520	55	3/4	1 1/2	38600520	19.70
.0550	54	3/4	1 1/2	38600550	19.70
.0591	1.5mm	19	38	3860015	23.55
.0595	53	3/4	1 1/2	38600595	19.70
.0625	1/16	3/4	1 1/2	3860004	18.65
.0635	52	3/4	1 1/2	38600635	19.70
.0670	51	3/4	1 1/2	38600670	19.70
.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	20.60
.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	21.45
.0860	44	1	2	38600860	22.15
.0890	43	1	2	38600890	22.15
.0935	42	1	2	38600935	22.30
.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	22.85
.1015	38	1 1/4	2 1/4	38601015	22.85
.1040	37	1 1/4	2 1/4	38601040	22.85
.1065	36	1 1/4	2 1/4	38601065	22.85
.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	23.90
.1130	33	1 1/4	2 1/4	38601130	23.90
.1160	32	1 1/4	2 1/4	38601160	24.55
.1181	3.0mm	32	57	3860030	28.65
.1200	31	1 1/4	2 1/4	38601200	24.90
.1250	1/8	1 1/4	2 1/4	3860008	24.20
.1285	30	1 1/4	2 1/4	38601285	\$25.90
.1360	29	1 3/8	2 1/2	38601360	26.15
.1378	3.5mm	35	63	3860035	30.10
.1405	28	1 3/8	2 1/2	38601405	26.85
.1406	3/64	1 3/8	2 1/2	3860009	28.80
.1440	27	1 3/8	2 1/2	38601440	27.90
.1470	26	1 3/8	2 1/2	38601470	28.35
.1495	25	1 3/8	2 1/2	38601495	28.65
.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	32.80
.1610	20	1 3/8	2 1/2	38601610	33.10
.1660	19	1 3/8	2 3/4	38601660	34.40
.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	39.80
.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	36.85
.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	39.45
.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	42.60
.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	45.55
.2165	5.5mm	44	75	3860055	50.05
.2188	7/32	1 3/4	3	386014	44.70
.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	55.20
.2344	15/64	2	3 1/4	386015	49.60
.2362	6.0mm	50	82	3860060	55.55
.2380	B	2	3 1/4	38602380	56.65
.2420	C	2	3 1/4	38602420	56.80
.2460	D	2	3 1/4	38602460	58.35
.2500	E, 1/4	2	3 1/4	386016	50.60
.2559	6.5mm	50	82	3860065	65.90
.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	68.15
.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	72.15
.3150	8.0mm	60	95	3860080	81.80
.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	78.65
.3320	Q	2 1/2	4	38603320	90.85
.3346	8.5mm	63	100	3860085	97.05
.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	95.10
.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	119.95
.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	137.65
.4040	Y	2 7/8	4 1/2	38604040	136.60
.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	141.65
.4331	11.0mm	73	114	3860110	173.70
.4375	7/16	2 7/8	4 1/2	386028	153.40
.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	184.20
.4921	12.5mm	76	120	3860125	223.95
.5000	1/2	3	4 3/4	386032	188.80

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CARBIDE TIPPED TANGED JOBBERS LENGTH TWIST DRILLS

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	\$22.60	369108	\$26.60
.1285		30	1 $\frac{5}{8}$	2 $\frac{3}{4}$	369230	23.20	369330	27.00
.1360		29	1 $\frac{3}{4}$	2 $\frac{7}{8}$	369229	24.00	369329	27.75
.1405		28	1 $\frac{3}{4}$	2 $\frac{7}{8}$	369228	24.20	369328	28.30
.1406	$\frac{9}{64}$		1 $\frac{3}{4}$	2 $\frac{7}{8}$	369009	24.60	369109	28.80
.1440		27	1 $\frac{7}{8}$	3	369227	24.90	369327	29.05
.1470		26	1 $\frac{7}{8}$	3	369226	23.15	369326	27.00
.1495		25	1 $\frac{7}{8}$	3	369225	23.15	369325	27.00
.1520		24	2	3 $\frac{1}{8}$	369224	24.90	369324	29.05
.1540		23	2	3 $\frac{1}{8}$	369223	24.20	369323	28.30
.1562	$\frac{5}{32}$		2	3 $\frac{1}{8}$	369010	24.15	369110	28.30
.1570		22	2	3 $\frac{1}{8}$	369222	26.90	369322	31.20
.1590		21	2 $\frac{1}{8}$	3 $\frac{1}{4}$	369221	25.70	369321	29.80
.1610		20	2 $\frac{1}{8}$	3 $\frac{1}{4}$	369220	26.30	369320	30.65
.1660		19	2 $\frac{1}{8}$	3 $\frac{1}{4}$	369219	26.30	369319	30.65
.1695		18	2 $\frac{1}{8}$	3 $\frac{1}{4}$	369218	26.30	369318	30.65
.1719	$\frac{11}{64}$		2 $\frac{1}{8}$	3 $\frac{1}{4}$	369011	26.30	369111	30.65
.1730		17	2 $\frac{3}{16}$	3 $\frac{3}{8}$	369217	26.30	369317	30.65
.1770		16	2 $\frac{3}{16}$	3 $\frac{3}{8}$	369216	25.70	369316	29.80
.1800		15	2 $\frac{3}{16}$	3 $\frac{3}{8}$	369215	26.90	369315	31.20
.1820		14	2 $\frac{3}{16}$	3 $\frac{3}{8}$	369214	25.70	369314	29.80
.1850		13	2 $\frac{5}{16}$	3 $\frac{1}{2}$	369213	28.30	369313	29.80
.1875	$\frac{3}{16}$		2 $\frac{5}{16}$	3 $\frac{1}{2}$	369012	25.70	369112	29.80
.1890		12	2 $\frac{5}{16}$	3 $\frac{1}{2}$	369212	29.45	369312	31.20
.1910		11	2 $\frac{5}{16}$	3 $\frac{1}{2}$	369211	27.30	369311	31.50
.1935		10	2 $\frac{7}{16}$	3 $\frac{5}{8}$	369210	26.90	369310	31.20
.1960		9	2 $\frac{7}{16}$	3 $\frac{5}{8}$	369209	27.30	369309	31.50
.1990		8	2 $\frac{7}{16}$	3 $\frac{5}{8}$	369208	27.30	369308	31.50
.2010		7	2 $\frac{7}{16}$	3 $\frac{5}{8}$	369207	27.30	369307	31.50
.2031	$\frac{13}{64}$		2 $\frac{7}{16}$	3 $\frac{5}{8}$	369013	28.15	369113	32.50
.2040		6	2 $\frac{1}{2}$	3 $\frac{3}{4}$	369206	27.80	369306	32.40
.2055		5	2 $\frac{1}{2}$	3 $\frac{3}{4}$	369205	28.20	369305	31.50
.2090		4	2 $\frac{1}{2}$	3 $\frac{3}{4}$	369204	27.80	369304	32.40
.2130		3	2 $\frac{1}{2}$	3 $\frac{3}{4}$	369203	28.20	369303	31.50
.2188	$\frac{7}{32}$		2 $\frac{1}{2}$	3 $\frac{3}{4}$	369014	28.15	369114	32.75
.2210		2	2 $\frac{5}{8}$	3 $\frac{7}{8}$	369202	29.30	369302	33.95
.2280		1	2 $\frac{5}{8}$	3 $\frac{7}{8}$	369201	28.95	369301	33.50
.2340		A	2 $\frac{5}{8}$	3 $\frac{7}{8}$	369401	31.95	369501	36.95
.2344	$\frac{15}{64}$		2 $\frac{5}{8}$	3 $\frac{7}{8}$	369015	30.30	369115	35.25
.2380		B	2 $\frac{3}{4}$	4	369402	31.95	369502	36.95
.2420		C	2 $\frac{3}{4}$	4	369403	31.95	369503	36.95
.2460		D	2 $\frac{3}{4}$	4	369404	31.10	369504	36.20
.2500	$\frac{1}{4}$	E	2 $\frac{3}{4}$	4	369016	30.30	369116	35.25
.2570		F	2 $\frac{7}{8}$	4 $\frac{1}{8}$	369406	35.80	369506	41.75
.2610		G	2 $\frac{7}{8}$	4 $\frac{1}{8}$	369407	36.80	369507	42.45
.2656	$\frac{17}{64}$		2 $\frac{7}{8}$	4 $\frac{1}{8}$	369017	33.75	369117	38.50
.2660		H	2 $\frac{7}{8}$	4 $\frac{1}{8}$	369408	37.50	369508	43.55
.2720		I	2 $\frac{7}{8}$	4 $\frac{1}{8}$	369409	36.80	369509	42.45
.2770		J	2 $\frac{7}{8}$	4 $\frac{1}{8}$	369410	\$37.50	369510	\$43.55
.2810		K	2 $\frac{15}{16}$	4 $\frac{1}{4}$	369411	37.50	369511	43.55
.2812	$\frac{9}{32}$		2 $\frac{15}{16}$	4 $\frac{1}{4}$	369018	35.65	369118	41.30
.2900		L	2 $\frac{15}{16}$	4 $\frac{1}{4}$	369412	37.50	369512	43.55
.2950		M	3 $\frac{1}{16}$	4 $\frac{3}{8}$	369413	41.25	369513	48.05
.2969	$\frac{19}{64}$		3 $\frac{1}{16}$	4 $\frac{3}{8}$	369019	39.65	369119	45.75
.3020		N	3 $\frac{1}{16}$	4 $\frac{3}{8}$	369414	40.40	369514	47.00
.3125	$\frac{5}{16}$		3 $\frac{3}{16}$	4 $\frac{1}{2}$	369020	38.65	369120	44.90
.3160		O	3 $\frac{3}{16}$	4 $\frac{1}{2}$	369415	39.70	369515	45.85
.3230		P	3 $\frac{3}{16}$	4 $\frac{5}{8}$	369416	42.40	369516	49.20
.3281	$\frac{21}{64}$		3 $\frac{3}{16}$	4 $\frac{5}{8}$	369021	41.00	369121	47.75
.3320		Q	3 $\frac{7}{16}$	4 $\frac{3}{4}$	369417	43.40	369517	50.30
.3390		R	3 $\frac{7}{16}$	4 $\frac{3}{4}$	369418	42.40	369518	49.20
.3438	$\frac{11}{32}$		3 $\frac{7}{16}$	4 $\frac{3}{4}$	369022	41.00	369122	47.75
.3480		S	3 $\frac{1}{2}$	4 $\frac{7}{8}$	369419	45.60	369519	53.05
.3580		T	3 $\frac{1}{2}$	4 $\frac{7}{8}$	369420	46.55	369520	54.05
.3594	$\frac{23}{64}$		3 $\frac{1}{2}$	4 $\frac{7}{8}$	369023	43.70	369123	50.80
.3680		U	3 $\frac{5}{8}$	5	369421	44.85	369521	51.80
.3750	$\frac{3}{8}$		3 $\frac{5}{8}$	5	369024	43.70	369124	50.80
.3770		V	3 $\frac{5}{8}$	5	369422	45.60	369522	53.05
.3860		W	3 $\frac{3}{4}$	5 $\frac{1}{8}$	369423	50.05	369523	57.95
.3906	$\frac{25}{64}$		3 $\frac{3}{4}$	5 $\frac{1}{8}$	369025	47.45	369125	55.25
.3970		X	3 $\frac{3}{4}$	5 $\frac{1}{8}$	369424	47.90	369524	55.55
.4040		Y	3 $\frac{7}{8}$	5 $\frac{1}{4}$	369425	50.05	369525	57.95
.4062	$\frac{13}{32}$		3 $\frac{7}{8}$	5 $\frac{1}{4}$	369026	47.45	369126	55.25
.4130		Z	3 $\frac{7}{8}$	5 $\frac{1}{4}$	369426	55.40	369526	64.15
.4219	$\frac{27}{64}$		3 $\frac{15}{16}$	5 $\frac{3}{8}$	369027	51.65	369127	60.00
.4375	$\frac{7}{16}$		4 $\frac{1}{16}$	5 $\frac{1}{2}$	369028	51.65	369128	60.00
.4531	$\frac{29}{64}$		4 $\frac{3}{16}$	5 $\frac{5}{8}$	369029	59.25	369129	68.70
.4688	$\frac{15}{32}$		4 $\frac{3}{16}$	5 $\frac{3}{4}$	369030	58.20	369130	67.20
.4844	$\frac{31}{64}$		4 $\frac{3}{8}$	5 $\frac{7}{8}$	369031	64.90	369131	75.40
.5000	$\frac{1}{2}$		4 $\frac{1}{2}$	6	369032	71.45	369132	75.40
.5156	$\frac{33}{64}$		4 $\frac{13}{16}$	6 $\frac{5}{8}$	369033	93.00	369133	108.00
.5312	$\frac{17}{32}$		4 $\frac{13}{16}$	6 $\frac{5}{8}$	369034	93.00	369134	108.00
.5469	$\frac{35}{64}$		4 $\frac{13}{16}$	6 $\frac{5}{8}$	369035	93.90	369135	109.05
.5625	$\frac{9}{16}$		4 $\frac{13}{16}$	6 $\frac{5}{8}$	369036	93.90	369136	109.05
.5781	$\frac{37}{64}$		4 $\frac{13}{16}$	6 $\frac{5}{8}$	369037	103.65	369137	120.40
.5938	$\frac{19}{32}$		5 $\frac{3}{16}$	7 $\frac{1}{8}$	369038	100.95	369138	117.05
.6094	$\frac{39}{64}$		5 $\frac{3}{16}$	7 $\frac{1}{8}$	369039	119.10	369139	138.35
.6250	$\frac{5}{8}$		5 $\frac{3}{16}$	7 $\frac{1}{8}$	369040	114.20	369140	132.45
.6406	$\frac{41}{64}$		5 $\frac{3}{16}$	7 $\frac{1}{8}$	369041	131.75	369141	153.00
.6562	$\frac{21}{32}$		5 $\frac{3}{16}$	7 $\frac{1}{8}$	369042	116.05	369142	134.75
.6719	$\frac{43}{64}$		5 $\frac{5}{8}$	7 $\frac{5}{8}$	369043	151.25	369143	175.55
.6875	$\frac{11}{16}$		5 $\frac{5}{8}$	7 $\frac{5}{8}$	369044	118.35	369144	137.30
.7031	$\frac{45}{64}$		5 $\frac{5}{8}$	7 $\frac{5}{8}$	369045	138.45	369145	153.90
.7188	$\frac{23}{32}$		5 $\frac{5}{8}$	7 $\frac{5}{8}$	369046	139.80	369146	155.20
.7344	$\frac{47}{64}$		5 $\frac{5}{8}$	7 $\frac{5}{8}$	369047	140.50	369147	156.30
.7500	$\frac{3}{4}$		5 $\frac{13}{16}$	8	369048	142.90	369148	158.50

CARBIDE TIPPED JOBBERS LENGTH TWIST DRILLS

TYPE 3600 - JOBBERS LENGTH - 118° POINT

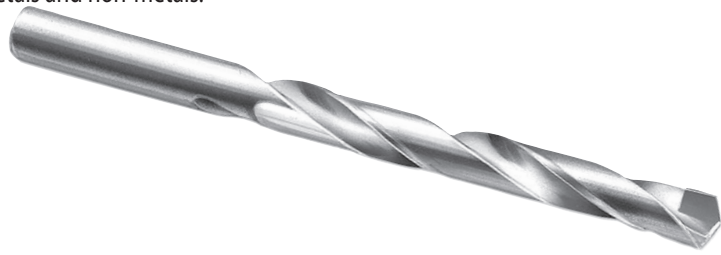
TYPE 3601 - JOBBERS LENGTH - 135° SPLIT POINT

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: +1/4" / -1/8".

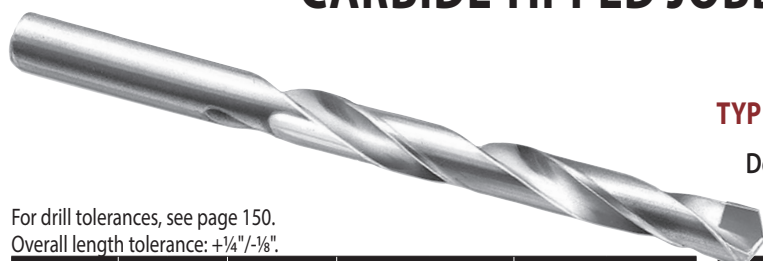
For drill tolerances, see page 150.

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	\$20.40	360332	\$23.85	.2720		I	2 7/8	4 1/8	360409	\$30.45	360509	\$35.20
.1200		31	1 5/8	2 3/4	360231	18.40	360331	21.45	.2770		J	2 7/8	4 1/8	360410	31.05	360510	36.05
.1250	1/8		1 5/8	2 3/4	360008	18.85	360108	22.00	.2810		K	2 15/16	4 1/4	360411	31.05	360511	36.05
.1285		30	1 5/8	2 3/4	360230	19.25	360330	22.30	.2812	9/32		2 15/16	4 1/4	360018	29.60	360118	34.25
.1360		29	1 3/4	2 7/8	360229	19.95	360329	23.00	.2900		L	2 15/16	4 1/4	360412	31.05	360512	36.05
.1405		28	1 3/4	2 7/8	360228	20.10	360328	23.45	.2950		M	3 1/16	4 3/8	360413	34.20	360513	39.80
.1406	9/64		1 3/4	2 7/8	360009	20.40	360109	23.75	.2969	19/64		3 1/16	4 3/8	360019	32.75	360119	37.95
.1440		27	1 7/8	3	360227	20.60	360327	23.90	.3020		N	3 1/16	4 3/8	360414	33.40	360514	38.95
.1470		26	1 7/8	3	360226	19.10	360326	22.30	.3125	5/16		3 3/16	4 1/2	360020	32.05	360120	37.20
.1495		25	1 7/8	3	360225	19.10	360325	22.30	.3160		O	3 3/16	4 1/2	360415	32.95	360515	38.10
.1520		24	2	3 1/8	360224	20.60	360324	23.90	.3230		P	3 3/16	4 5/8	360416	35.10	360516	40.60
.1540		23	2	3 1/8	360223	20.10	360323	23.45	.3281	21/64		3 5/16	4 5/8	360021	33.95	360121	39.45
.1562	5/32		2	3 1/8	360010	20.00	360110	23.45	.3320		Q	3 7/16	4 3/4	360417	35.80	360517	41.70
.1570		22	2	3 1/8	360222	22.15	360322	25.90	.3390		R	3 7/16	4 3/4	360418	35.10	360518	40.60
.1590		21	2 1/8	3 1/4	360221	21.30	360321	24.75	.3438	11/32		3 7/16	4 3/4	360022	33.95	360122	39.45
.1610		20	2 1/8	3 1/4	360220	21.85	360320	25.20	.3480		S	3 1/2	4 7/8	360419	37.70	360519	43.85
.1660		19	2 1/8	3 1/4	360219	21.85	360319	25.20	.3580		T	3 1/2	4 7/8	360420	38.50	360520	44.85
.1695		18	2 1/8	3 1/4	360218	21.85	360318	25.20	.3594	23/64		3 1/2	4 7/8	360023	36.20	360123	42.10
.1719	11/64		2 1/8	3 1/4	360011	21.85	360111	25.20	.3680		U	3 5/8	5	360421	37.00	360521	43.00
.1730		17	2 3/16	3 3/8	360217	21.85	360317	25.20	.3750	3/8		3 5/8	5	360024	36.20	360124	42.10
.1770		16	2 3/16	3 3/8	360216	21.30	360316	24.75	.3770		V	3 5/8	5	360422	37.70	360522	43.85
.1800		15	2 3/16	3 3/8	360215	22.15	360315	25.90	.3860		W	3 3/4	5 1/8	360423	41.45	360523	48.00
.1820		14	2 3/16	3 3/8	360214	21.30	360314	24.75	.3906	25/64		3 3/4	5 1/8	360025	39.30	360125	45.75
.1850		13	2 3/16	3 1/2	360213	23.45	360313	24.75	.3970		X	3 3/4	5 1/8	360424	39.70	360524	46.00
.1875	3/16		2 3/16	3 1/2	360012	21.30	360112	24.75	.4040		Y	3 7/8	5 1/4	360425	41.45	360525	48.00
.1890		12	2 5/16	3 1/2	360212	24.55	360312	25.90	.4062	13/32		3 7/8	5 1/4	360026	39.30	360126	45.75
.1910		11	2 5/16	3 1/2	360211	22.60	360311	26.15	.4130		Z	3 7/8	5 1/4	360426	45.85	360526	53.05
.1935		10	2 7/16	3 5/8	360210	22.15	360310	25.90	.4219	27/64		3 15/16	5 3/8	360027	42.75	360127	49.65
.1960		9	2 7/16	3 5/8	360209	22.60	360309	26.15	.4375	7/16		4 1/16	5 1/2	360028	42.75	360128	49.65
.1990		8	2 7/16	3 5/8	360208	22.60	360308	26.15	.4531	29/64		4 3/16	5 5/8	360029	49.20	360129	56.95
.2010		7	2 7/16	3 5/8	360207	22.60	360307	26.15	.4688	15/32		4 5/16	5 3/4	360030	48.05	360130	55.70
.2031	13/64		2 7/16	3 5/8	360013	23.40	360113	26.90	.4844	31/64		4 3/8	5 7/8	360031	53.80	360131	62.40
.2040		6	2 1/2	3 3/4	360206	23.05	360306	26.85	.5000	1/2		4 1/2	6	360032	59.10	360132	62.40
.2055		5	2 1/2	3 3/4	360205	23.40	360305	26.15	.5156	33/64		4 13/16	6 5/8	360033	77.05	360133	89.45
.2090		4	2 1/2	3 3/4	360204	23.05	360304	26.85	.5312	17/32		4 13/16	6 5/8	360034	77.05	360134	89.45
.2130		3	2 1/2	3 3/4	360203	23.40	360303	26.15	.5469	35/64		4 13/16	6 5/8	360035	77.70	360135	90.20
.2188	7/32		2 1/2	3 3/4	360014	23.40	360114	26.90	.5625	9/16		4 13/16	6 5/8	360036	77.70	360136	90.20
.2210		2	2 5/8	3 7/8	360202	24.35	360302	28.15	.5781	37/64		4 13/16	6 5/8	360037	85.85	360137	99.70
.2280		1	2 5/8	3 7/8	360201	23.85	360301	27.75	.5938	19/32		5 3/16	7 1/8	360038	83.45	360138	96.95
.2340		A	2 5/8	3 7/8	360401	26.45	360501	30.65	.6094	39/64		5 3/16	7 1/8	360039	98.65	360139	114.50
.2344	15/64		2 5/8	3 7/8	360015	25.05	360115	29.20	.6250	5/8		5 3/16	7 1/8	360040	94.60	360140	109.70
.2380		B	2 3/4	4	360402	26.45	360502	30.65	.6406	41/64		5 3/16	7 1/8	360041	109.05	360141	126.70
.2420		C	2 3/4	4	360403	26.45	360503	30.65	.6562	21/32		5 3/16	7 1/8	360042	96.20	360142	111.60
.2460		D	2 3/4	4	360404	25.85	360504	30.05	.6719	43/64		5 5/8	7 5/8	360043	125.15	360143	145.35
.2500	1/4	E	2 3/4	4	360016	25.05	360116	29.20	.6875	11/16		5 5/8	7 5/8	360044	98.05	360144	113.75
.2570		F	2 7/8	4 1/8	360406	29.65	360506	34.40	.7031	45/64		5 5/8	7 5/8	360045	114.50	360145	127.40
.2610		G	2 7/8	4 1/8	360407	30.45	360507	35.20	.7188	23/32		5 5/8	7 5/8	360046	115.75	360146	128.60
.2656	17/64		2 7/8	4 1/8	360017	27.90	360117	31.95	.7344	47/64		5 5/8	7 5/8	360047	116.35	360147	129.30
.2660		H	2 7/8	4 1/8	360408	31.05	360508	36.05	.7500	3/4		5 13/16	8	360048	118.10	360148	131.30

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	\$25.30	3601030	\$25.90
3.1	.1220	41	1 5/8	70	2 3/4	3600031	26.50	3601031	26.85
3.2	.1260	41	1 5/8	70	2 3/4	3600032	26.50	3601032	26.85
3.3	.1299	44	1 3/4	73	2 7/8	3600033	26.50	3601033	26.85
3.4	.1339	44	1 3/4	73	2 7/8	3600034	26.50	3601034	26.85
3.5	.1378	44	1 3/4	73	2 7/8	3600035	24.55	3601035	25.30
3.6	.1417	48	1 7/8	76	3	3600036	25.30	3601036	25.90
3.7	.1457	48	1 7/8	76	3	3600037	25.30	3601037	25.90
3.8	.1496	48	1 7/8	76	3	3600038	25.30	3601038	25.90
3.9	.1535	51	2	79	3 1/8	3600039	25.30	3601039	25.90
4.0	.1575	54	2 1/8	83	3 1/4	3600040	23.85	3601040	24.55
4.1	.1614	54	2 1/8	83	3 1/4	3600041	23.00	3601041	26.15
4.2	.1654	54	2 1/8	83	3 1/4	3600042	24.55	3601042	26.15
4.3	.1693	54	2 1/8	83	3 1/4	3600043	24.55	3601043	26.15
4.4	.1732	56	2 3/16	86	3 3/8	3600044	24.55	3601044	26.15
4.5	.1772	56	2 3/16	86	3 3/8	3600045	25.30	3601045	26.15
4.6	.1811	56	2 3/16	86	3 3/8	3600046	27.65	3601046	28.00
4.7	.1850	59	2 5/16	89	3 1/2	360213	23.45	360313	24.75
4.8	.1890	59	2 5/16	89	3 1/2	360212	24.55	360312	25.90
4.9	.1929	62	2 7/16	92	3 5/8	3600049	27.65	3601049	28.00
5.0	.1969	62	2 7/16	92	3 5/8	3600050	26.50	3601050	27.30
5.1	.2008	62	2 7/16	92	3 5/8	3600051	28.80	3601051	29.20
5.2	.2047	64	2 1/2	95	3 3/4	3600052	28.80	3601052	29.20
5.3	.2087	64	2 1/2	95	3 3/4	3600053	28.80	3601053	29.20
5.4	.2126	64	2 1/2	95	3 3/4	3600054	28.80	3601054	29.20
5.5	.2165	64	2 1/2	95	3 3/4	3600055	28.15	3601055	28.35
5.6	.2205	67	2 5/8	98	3 7/8	3600056	29.60	3601056	30.10
5.7	.2244	67	2 5/8	98	3 7/8	3600057	29.60	3601057	30.10
5.8	.2283	67	2 5/8	98	3 7/8	3600058	29.60	3601058	30.10
5.9	.2323	67	2 5/8	98	3 7/8	3600059	29.60	3601059	30.10
6.0	.2362	70	2 3/4	102	4	3600060	29.20	3601060	30.90
6.1	.2402	70	2 3/4	102	4	3600061	30.90	3601061	31.75
6.2	.2441	70	2 3/4	102	4	3600062	30.90	3601062	31.75
6.3	.2480	70	2 3/4	102	4	3600063	30.90	3601063	31.75
6.4	.2520	73	2 7/8	105	4 1/8	3600064	30.90	3601064	31.75
6.5	.2559	73	2 7/8	105	4 1/8	3600065	30.20	3601065	30.90
6.6	.2598	73	2 7/8	105	4 1/8	3600066	32.25	3601066	36.20
6.7	.2638	73	2 7/8	105	4 1/8	3600067	32.25	3601067	36.20
6.8	.2677	73	2 7/8	105	4 1/8	3600068	32.25	3601068	36.20
6.9	.2717	73	2 7/8	105	4 1/8	3600069	32.25	3601069	36.20
7.0	.2756	73	2 7/8	105	4 1/8	3600070	31.65	3601070	36.20
7.1	.2795	75	2 15/16	108	4 1/4	3600071	33.10	3601071	36.20
7.2	.2835	75	2 15/16	108	4 1/4	3600072	33.10	3601072	36.20
7.3	.2874	75	2 15/16	108	4 1/4	3600073	33.10	3601073	36.20
7.4	.2913	78	3 1/16	111	4 3/8	3600074	33.10	3601074	39.15
7.5	.2953	78	3 1/16	111	4 3/8	3600075	33.10	3601075	39.15
7.6	.2992	78	3 1/16	111	4 3/8	3600076	34.70	3601076	39.15
7.7	.3031	81	3 3/16	114	4 1/2	3600077	34.70	3601077	39.15
7.8	.3071	81	3 3/16	114	4 1/2	3600078	34.70	3601078	39.15
7.9	.3110	81	3 3/16	114	4 1/2	3600079	34.70	3601079	39.15
8.0	.3150	81	3 3/16	114	4 1/2	3600080	33.90	3601080	39.15
8.1	.3189	84	3 5/16	117	4 5/8	3600081	37.00	3601081	41.70
8.2	.3228	84	3 5/16	117	4 5/8	3600082	37.00	3601082	41.70
8.3	.3268	84	3 5/16	117	4 5/8	3600083	37.00	3601083	41.70
8.4	.3307	87	3 7/16	121	4 3/4	3600084	37.00	3601084	41.70
8.5	.3346	87	3 7/16	121	4 3/4	3600085	35.40	3601085	41.70
8.6	.3386	87	3 7/16	121	4 3/4	3600086	37.00	3601086	41.70
8.7	.3425	87	3 7/16	121	4 3/4	3600087	\$37.00	3601087	\$41.70
8.8	.3465	89	3 1/2	124	4 7/8	3600088	37.00	3601088	41.70
8.9	.3504	89	3 1/2	124	4 7/8	3600089	37.00	3601089	44.40
9.0	.3543	89	3 1/2	124	4 7/8	3600090	36.20	3601090	44.40
9.1	.3583	89	3 1/2	124	4 7/8	3600091	40.10	3601091	44.40
9.2	.3622	92	3 5/8	127	5	3600092	40.10	3601092	44.40
9.3	.3661	92	3 5/8	127	5	3600093	40.10	3601093	44.40
9.4	.3701	92	3 5/8	127	5	3600094	40.10	3601094	44.40
9.5	.3740	92	3 5/8	127	5	3600095	39.30	3601095	44.40
9.6	.3780	95	3 3/4	130	5 1/8	3600096	40.70	3601096	48.35
9.7	.3819	95	3 3/4	130	5 1/8	3600097	40.70	3601097	48.35
9.8	.3858	95	3 3/4	130	5 1/8	3600098	40.70	3601098	48.35
9.9	.3898	95	3 3/4	130	5 1/8	3600099	40.70	3601099	48.35
10.0	.3937	95	3 3/4	130	5 1/8	3600100	40.70	3601100	48.35
10.1	.3976	98	3 7/8	133	5 1/4	3600101	48.50	3601101	49.80
10.2	.4016	98	3 7/8	133	5 1/4	3600102	48.50	3601102	49.80
10.3	.4055	98	3 7/8	133	5 1/4	3600103	48.50	3601103	49.80
10.4	.4094	98	3 7/8	133	5 1/4	3600104	48.50	3601104	52.35
10.5	.4134	98	3 7/8	133	5 1/4	3600105	46.90	3601105	52.35
10.6	.4173	100	3 15/16	137	5 3/8	3600106	53.10	3601106	54.10
10.7	.4213	100	3 15/16	137	5 3/8	3600107	53.10	3601107	54.10
10.8	.4252	103	4 1/16	140	5 1/2	3600108	53.10	3601108	54.10
10.9	.4291	103	4 1/16	140	5 1/2	3600109	53.10	3601109	54.10
11.0	.4331	103	4 1/16	140	5 1/2	3600110	50.90	3601110	52.35
11.1	.4370	103	4 1/16	140	5 1/2	3600111	59.35	3601111	60.25
11.2	.4409	106	4 3/16	143	5 5/8	3600112	59.35	3601112	60.80
11.3	.4449	106	4 3/16	143	5 5/8	3600113	59.35	3601113	60.80
11.4	.4488	106	4 3/16	143	5 5/8	3600114	59.35	3601114	58.95
11.5	.4528	106	4 3/16	143	5 5/8	3600115	57.05	3601115	58.95
11.6	.4567	110	4 5/16	146	5 3/4	3600116	64.60	3601116	65.60
11.7	.4606	110	4 5/16	146	5 3/4	3600117	64.60	3601117	65.60
11.8	.4646	110	4 5/16	146	5 3/4	3600118	64.60	3601118	65.60
11.9	.4685	110	4 5/16	146	5 3/4	3600119	64.60	3601119	65.60
12.0	.4724	111	4 3/8	149	5 7/8	3600120	61.80	3601120	66.00
12.1	.4764	111	4 3/8	149	5 7/8	3600121	67.20	3601121	68.20
12.2	.4803	111	4 3/8	149	5 7/8	3600122	67.20	3601122	68.20
12.3	.4843	111	4 3/8	149	5 7/8	3600123	67.20	3601123	68.20
12.4	.4882	114	4 1/2	152	6	3600124	67.20	3601124	68.20
12.5	.4921	114	4 1/2	152	6	3600125	64.10	3601125	66.00
12.6	.4961	114	4 1/2	152	6	3600126	69.60	3601126	70.45
12.7	.5000	114	4 1/2	152	6	360032	59.10	360132	62.40
12.8	.5039	114	4 1/2	152	6	3600128	76.35	3601128	97.20
12.9	.5079	114	4 1/2	152	6	3600129	76.35	3601129	97.20
13.0	.5118	114	4 1/2	152	6	3600130	76.35	3601130	97.20
13.5	.5315	122	4 13/16	168	6 5/8	3600135	98.90	3601135	106.60
14.0	.5512	122	4 13/16	168	6 5/8	3600140	104.80	3601140	113.00
14.5	.5709	122	4 13/16	168	6 5/8	3600145	112.35	3601145	121.40
15.0	.5906	132	5 3/16	181	7 1/8	3600150	112.35	3601150	121.40
15.5	.6102	132	5 3/16	181	7 1/8	3600155	113.85	3601155	122.95
16.0	.6299	132	5 3/16	181	7 1/8	3600160	115.90	3601160	125.15
16.5	.6496	132	5 3/16	181	7 1/8	3600165	115.90	3601165	125.15
17.0	.6693	143	5 5/8	194	7 7/8	3600170	120.35	3601170	130.10
17.5	.6890	143	5 5/8	194	7 7/8	3600175	120.35	3601175	130.10
18.0	.7087	143	5 5/8	194	7 7/8	3600180	121.80	3601180	131.30
18.5	.7283	143	5 5/8	194	7 7/8	3600185	122.40	3601185	132.15
19.0	.7480	148	5 13/16	203	8	3600190	124.00	3601190	134.05
-	-	-	-	-	-	-	-	-	-

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	\$25.30	363108	\$28.75
.1285		30	3	5 3/8	363230	35.35	363330	34.85
.1360		29	3	5 3/8	363229	35.35	363329	34.85
.1405		28	3	5 3/8	363228	35.35	363328	34.85
.1406	9/64		3	5 3/8	363009	29.20	363109	30.40
.1440		27	3	5 3/8	363227	35.35	363327	34.85
.1470		26	3	5 3/8	363226	35.35	363326	34.85
.1495		25	3	5 3/8	363225	35.35	363325	34.85
.1520		24	3	5 3/8	363224	35.35	363324	34.85
.1540		23	3	5 3/8	363223	35.35	363323	34.85
.1562	5/32		3	5 3/8	363010	26.85	363110	30.40
.1570		22	3 3/8	5 3/4	363222	36.65	363322	36.20
.1590		21	3 3/8	5 3/4	363221	36.65	363321	36.20
.1610		20	3 3/8	5 3/4	363220	36.65	363320	36.20
.1660		19	3 3/8	5 3/4	363219	36.65	363319	36.20
.1695		18	3 3/8	5 3/4	363218	36.65	363318	36.20
.1719	11/64		3 3/8	5 3/4	363011	27.30	363111	31.50
.1730		17	3 3/8	5 3/4	363217	36.65	363317	36.20
.1770		16	3 3/8	5 3/4	363216	36.65	363316	36.20
.1800		15	3 3/8	5 3/4	363215	36.65	363315	36.20
.1820		14	3 3/8	5 3/4	363214	36.65	363314	36.20
.1850		13	3 3/8	5 3/4	363213	36.65	363313	36.20
.1875	3/16		3 3/8	5 3/4	363012	27.30	363112	31.50
.1890		12	3 3/8	6	363212	38.65	363312	38.15
.1910		11	3 3/8	6	363211	38.65	363311	38.15
.1935		10	3 3/8	6	363210	38.65	363310	38.15
.1960		9	3 3/8	6	363209	38.65	363309	38.15
.1990		8	3 3/8	6	363208	38.65	363308	38.15
.2010		7	3 3/8	6	363207	38.65	363307	38.15
.2031	13/64		3 3/8	6	363013	28.90	363113	33.20
.2040		6	3 3/8	6	363206	38.65	363306	38.15
.2055		5	3 3/8	6	363205	38.65	363305	38.15
.2090		4	3 3/8	6	363204	38.65	363304	38.15
.2130		3	3 3/8	6	363203	38.65	363303	38.15
.2188	7/32		3 3/8	6	363014	28.90	363114	33.20
.2210		2	3 3/4	6 1/8	363202	43.75	363302	43.25
.2280		1	3 3/4	6 1/8	363201	43.75	363301	43.25
.2340		A	3 3/4	6 1/8	363401	43.75	363501	43.25
.2344	15/64		3 3/4	6 1/8	363015	32.75	363115	37.50
.2380		B	3 3/4	6 1/8	363402	43.75	363502	43.25
.2420		C	3 3/4	6 1/8	363403	43.75	363503	43.25
.2460		D	3 3/4	6 1/8	363404	43.75	363504	43.25
.2500	1/4		3 3/4	6 1/8	363016	32.75	363116	37.50
.2570		F	3 7/8	6 1/4	363406	48.90	363506	48.35
.2610		G	3 7/8	6 1/4	363407	48.90	363507	48.35
.2656	17/64		3 7/8	6 1/4	363017	36.65	363117	42.00
.2660		H	3 7/8	6 1/4	363408	48.90	363508	48.35
.2720		I	3 7/8	6 1/4	363409	48.90	363509	48.35
.2770		J	3 7/8	6 1/4	363410	48.90	363510	48.35
.2810		K	3 7/8	6 1/4	363411	48.90	363511	48.35
.2812	9/32		3 7/8	6 1/4	363018	36.65	363118	42.00
.2900		L	4	6 3/8	363412	53.05	363512	52.20
.2950		M	4	6 3/8	363413	53.05	363513	52.20
.2969	19/64		4	6 3/8	363019	39.45	363119	45.45
.3020		N	4	6 3/8	363414	53.05	363514	52.20
.3125	5/16		4	6 3/8	363020	39.45	363120	45.45
.3160		O	4 1/8	6 1/2	363415	\$60.15	363515	\$59.35
.3230		P	4 1/8	6 1/2	363416	60.15	363516	59.35
.3281	21/64		4 1/8	6 1/2	363021	43.55	363121	51.75
.3320		Q	4 1/8	6 1/2	363417	60.15	363517	59.35
.3390		R	4 1/8	6 1/2	363418	60.15	363518	59.35
.3438	11/32		4 1/8	6 1/2	363022	43.55	363122	52.20
.3480		S	4 1/4	6 3/4	363419	65.85	363519	65.05
.3580		T	4 1/4	6 3/4	363420	65.85	363520	65.05
.3594	23/64		4 1/4	6 3/4	363023	49.05	363123	56.55
.3680		U	4 1/4	6 3/4	363421	65.85	363521	65.05
.3750	3/8		4 1/4	6 3/4	363024	49.05	363124	56.55
.3770		V	4 3/8	7	363422	70.50	363522	69.65
.3860		W	4 3/8	7	363423	70.50	363523	69.65
.3906	25/64		4 3/8	7	363025	52.65	363125	60.60
.3970		X	4 3/8	7	363424	70.50	363524	69.65
.4040		Y	4 3/8	7	363425	70.50	363525	69.65
.4062	13/32		4 3/8	7	363026	52.65	363126	60.60
.4130		Z	4 3/8	7 1/4	363426	81.35	363526	80.15
.4219	27/64		4 3/8	7 1/4	363027	60.80	363127	69.65
.4375	7/16		4 3/8	7 1/4	363028	60.80	363128	69.65
.4531	29/64		4 3/4	7 1/2	363029	67.45	363129	78.40
.4688	15/32		4 3/4	7 1/2	363030	67.45	363130	78.40
.4844	31/64		4 3/4	7 3/4	363031	70.75	363131	81.00
.5000	1/2		4 3/4	7 3/4	363032	77.70	363132	81.00
.5156	33/64		4 3/4	8	363033	101.35	363133	116.15
.5312	17/32		4 3/4	8	363034	101.35	363134	116.15
.5469	35/64		4 7/8	8 1/4	363035	102.15	363135	117.10
.5625	9/16		4 7/8	8 1/4	363036	102.15	363136	117.10
.5781	37/64		4 7/8	8 3/4	363037	112.85	363137	129.50
.5938	19/32		4 7/8	8 3/4	363038	109.70	363138	125.80
.6094	39/64		4 7/8	8 3/4	363039	129.70	363139	148.60
.6250	5/8		4 7/8	8 3/4	363040	124.40	363140	142.40
.6406	41/64		5 1/8	9	363041	143.40	363141	164.50
.6562	21/32		5 1/8	9	363042	126.45	363142	144.85
.6719	43/64		5 3/8	9 1/4	363043	164.55	363143	188.65
.6875	11/16		5 3/8	9 1/4	363044	128.85	363144	147.65
.7031	45/64		5 3/8	9 1/2	363045	150.45	363145	165.35
.7188	23/32		5 3/8	9 1/2	363046	152.15	363146	166.95
.7344	47/64		5 7/8	9 3/4	363047	153.00	363147	167.85
.7500	3/4		5 7/8	9 3/4	363048	155.30	363148	170.45
.7656	49/64		6	9 7/8	363049	158.50	363149	174.00
.7812	25/32		6	9 7/8	363050	161.75	363150	177.60
.7969	51/64		6 1/8	10	363051	164.95	363151	181.15
.8125	13/16		6 1/8	10	363052	168.15	363152	184.75
.8281	53/64		6 1/8	10	363053	171.40	363153	188.30
.8438	27/32		6 1/8	10	363054	174.60	363154	191.85
.8594	55/64		6 1/8	10	363055	177.85	363155	195.45
.8750	7/8		6 1/8	10	363056	181.05	363156	199.00
.8906	57/64		6 1/8	10	363057	184.25	363157	202.60
.9062	29/32		6 1/8	10	363058	187.50	363158	206.15
.9219	59/64		6 1/8	10 3/4	363059	190.70	363159	209.70
.9375	15/16		6 1/8	10 3/4	363060	193.90	363160	213.30
.9531	61/64		6 3/8	11	363061	197.15	363161	216.85
.9688	31/32		6 3/8	11	363062	200.35	363162	220.45
.9844	63/64		6 3/8	11	363063	203.60	363163	224.00
1.0000	1		6 3/8	11	363064	206.80	363164	227.55

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: +1/4" / -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	\$32.65	3631032	\$32.15
3.3	.1299	76	3	137	5 3/8	3630033	32.65	3631033	32.15
3.4	.1339	76	3	137	5 3/8	3630034	32.65	3631034	32.15
3.5	.1378	76	3	137	5 3/8	3630035	31.65	3631035	31.45
3.6	.1417	76	3	137	5 3/8	3630036	31.65	3631036	31.45
3.7	.1457	76	3	137	5 3/8	3630037	31.65	3631037	31.45
3.8	.1496	76	3	137	5 3/8	3630038	31.65	3631038	31.45
3.9	.1535	76	3	137	5 3/8	3630039	31.65	3631039	31.45
4.0	.1575	86	3 3/8	146	5 3/4	3630040	30.95	3631040	30.60
4.1	.1614	86	3 3/8	146	5 3/4	3630041	32.65	3631041	32.15
4.2	.1654	86	3 3/8	146	5 3/4	3630042	32.65	3631042	32.15
4.3	.1693	86	3 3/8	146	5 3/4	3630043	32.65	3631043	32.15
4.4	.1732	86	3 3/8	146	5 3/4	3630044	34.40	3631044	33.80
4.5	.1772	86	3 3/8	146	5 3/4	3630045	34.40	3631045	33.80
4.6	.1811	86	3 3/8	146	5 3/4	3630046	34.40	3631046	33.80
4.7	.1850	86	3 3/8	146	5 3/4	363213	36.65	363313	36.20
4.8	.1890	92	3 5/8	152	6	363212	38.65	363312	38.15
4.9	.1929	92	3 5/8	152	6	3630049	34.40	3631049	33.80
5.0	.1969	92	3 5/8	152	6	3630050	34.25	3631050	33.80
5.1	.2008	92	3 5/8	152	6	3630051	35.65	3631051	35.20
5.2	.2047	92	3 5/8	152	6	3630052	30.65	3631052	35.20
5.3	.2087	92	3 5/8	152	6	3630053	35.65	3631053	35.20
5.4	.2126	92	3 5/8	152	6	3630054	35.65	3631054	35.20
5.5	.2165	92	3 5/8	152	6	3630055	36.55	3631055	35.20
5.6	.2205	95	3 3/4	156	6 1/8	3630056	35.65	3631056	35.20
5.7	.2244	95	3 3/4	156	6 1/8	3630057	35.65	3631057	35.20
5.8	.2283	95	3 3/4	156	6 1/8	3630058	35.65	3631058	35.20
5.9	.2323	95	3 3/4	156	6 1/8	3630059	37.20	3631059	36.80
6.0	.2362	95	3 3/4	156	6 1/8	3630060	37.95	3631060	38.20
6.1	.2402	95	3 3/4	156	6 1/8	3630061	39.65	3631061	39.00
6.2	.2441	95	3 3/4	156	6 1/8	3630062	39.65	3631062	39.00
6.3	.2480	95	3 3/4	156	6 1/8	3630063	39.65	3631063	39.00
6.4	.2520	98	3 7/8	159	6 1/4	3630064	43.55	3631064	42.90
6.5	.2559	98	3 7/8	159	6 1/4	3630065	39.30	3631065	42.90
6.6	.2598	98	3 7/8	159	6 1/4	3630066	44.85	3631066	44.10
6.7	.2638	98	3 7/8	159	6 1/4	3630067	44.85	3631067	44.10
6.8	.2677	98	3 7/8	159	6 1/4	3630068	44.85	3631068	44.10
6.9	.2717	98	3 7/8	159	6 1/4	3630069	44.85	3631069	44.10
7.0	.2756	98	3 7/8	159	6 1/4	3630070	41.00	3631070	42.90
7.1	.2795	98	3 7/8	159	6 1/4	3630071	44.85	3631071	44.10
7.2	.2835	102	4	162	6 3/8	3630072	44.85	3631072	44.10
7.3	.2874	102	4	162	6 3/8	3630073	44.85	3631073	44.10
7.4	.2913	102	4	162	6 3/8	3630074	44.85	3631074	44.10
7.5	.2953	102	4	162	6 3/8	3630075	43.45	3631075	46.40
7.6	.2992	102	4	162	6 3/8	3630076	47.00	3631076	46.40
7.7	.3031	102	4	162	6 3/8	3630077	47.00	3631077	46.40
7.8	.3071	102	4	162	6 3/8	3630078	47.00	3631078	46.40
7.9	.3110	102	4	162	6 3/8	3630079	47.00	3631079	46.40
8.0	.3150	105	4 1/8	165	6 1/2	3630080	44.05	3631080	46.40
8.1	.3189	105	4 1/8	165	6 1/2	3630081	47.00	3631081	46.40
8.2	.3228	105	4 1/8	165	6 1/2	3630082	50.05	3631082	49.30
8.3	.3268	105	4 1/8	165	6 1/2	3630083	50.05	3631083	49.30
8.4	.3307	105	4 1/8	165	6 1/2	3630084	50.05	3631084	49.30
8.5	.3346	105	4 1/8	165	6 1/2	3630085	46.20	3631085	52.55
8.6	.3386	105	4 1/8	165	6 1/2	3630086	\$53.35	3631086	\$52.55
8.7	.3425	105	4 1/8	165	6 1/2	3630087	53.35	3631087	52.55
8.8	.3465	108	4 1/4	171	6 3/4	3630088	53.35	3631088	52.55
8.9	.3504	108	4 1/4	171	6 3/4	3630089	53.35	3631089	52.55
9.0	.3543	108	4 1/4	171	6 3/4	3630090	49.90	3631090	57.70
9.1	.3583	108	4 1/4	171	6 3/4	3630091	58.40	3631091	57.70
9.2	.3622	108	4 1/4	171	6 3/4	3630092	58.40	3631092	57.70
9.3	.3661	108	4 1/4	171	6 3/4	3630093	58.40	3631093	57.70
9.4	.3701	108	4 1/4	171	6 3/4	3630094	58.40	3631094	57.70
9.5	.3740	108	4 1/4	171	6 3/4	3630095	51.15	3631095	57.70
9.6	.3780	111	4 3/8	178	7	3630096	61.30	3631096	60.50
9.7	.3819	111	4 3/8	178	7	3630097	61.30	3631097	60.50
9.8	.3858	111	4 3/8	178	7	3630098	61.30	3631098	60.50
9.9	.3898	111	4 3/8	178	7	3630099	61.30	3631099	60.50
10.0	.3937	111	4 3/8	178	7	3630100	53.75	3631100	61.95
10.1	.3976	111	4 3/8	178	7	3630101	62.80	3631101	61.95
10.2	.4016	111	4 3/8	178	7	3630102	65.45	3631102	64.55
10.3	.4055	111	4 3/8	178	7	3630103	65.45	3631103	64.55
10.4	.4094	117	4 5/8	184	7 1/4	3630104	68.35	3631104	67.25
10.5	.4134	117	4 5/8	184	7 1/4	3630105	61.15	3631105	67.25
10.6	.4173	117	4 5/8	184	7 1/4	3630106	71.60	3631106	70.70
10.7	.4213	117	4 5/8	184	7 1/4	3630107	71.60	3631107	70.70
10.8	.4252	117	4 5/8	184	7 1/4	3630108	71.60	3631108	70.70
10.9	.4291	117	4 5/8	184	7 1/4	3630109	71.60	3631109	70.70
11.0	.4331	117	4 5/8	184	7 1/4	3630110	66.15	3631110	71.00
11.5	.4528	121	4 3/4	190	7 1/2	3630115	74.25	3631115	78.55
12.0	.4724	121	4 3/4	197	7 3/4	3630120	81.25	3631120	82.60
12.5	.4921	121	4 3/4	197	7 3/4	3630125	84.30	3631125	82.60
13.0	.5118	121	4 3/4	203	8	3630130	101.35	3631130	116.15
13.5	.5315	121	4 3/4	203	8	3630135	102.15	3631135	117.10
14.0	.5512	124	4 7/8	210	8 1/4	3630140	102.15	3631140	117.10
14.5	.5709	124	4 7/8	222	8 3/4	3630145	112.85	3631145	129.50
15.0	.5906	124	4 7/8	222	8 3/4	3630150	112.85	3631150	129.50
15.5	.6102	124	4 7/8	222	8 3/4	3630155	129.70	3631155	148.60
16.0	.6299	130	5 1/8	229	9	3630160	143.40	3631160	164.50
16.5	.6496	130	5 1/8	229	9	3630165	143.40	3631165	164.50
17.0	.6693	137	5 3/8	235	9 1/4	3630170	164.55	3631170	188.65
17.5	.6890	143	5 5/8	241	9 1/2	3630175	150.45	3631175	165.35
18.0	.7087	143	5 5/8	241	9 1/2	3630180	152.15	3631180	166.95
18.5	.7283	149	5 7/8	248	9 3/4	3630185	153.00	3631185	167.85
19.0	.7480	149	5 7/8	248	9 3/4	3630190	155.30	3631190	170.45
19.5	.7677	152	6	251	9 7/8	3630195	161.75	3631195	177.60
20.0	.7874	156	6 1/8	254	10	3630200	164.95	3631200	181.15
20.5	.8071	156	6 1/8	254	10	3630205	168.15	3631205	184.75
21.0	.8268	156	6 1/8	254	10	3630210	171.40	3631210	188.30
21.5	.8465	156	6 1/8	254	10	3630215	177.85	3631215	195.45
22.0	.8661	156	6 1/8	254	10	3630220	181.05	3631220	199.00
22.5	.8858	156	6 1/8	254	10	3630225	184.25	3631225	202.60
23.0	.9055	156	6 1/8	254	10	3630230	187.50	3631230	206.15
23.5	.9252	156	6 1/8	273	10 3/4	3630235	193.90	3631235	213.30
24.0	.9449	162	6 3/8	279	11	3630240	197.15	3631240	216.85
24.5	.9646	162	6 3/8	279	11	3630245	200.35	3631245	220.45
25.0	.9843	162	6 3/8	279	11	3630250	203.60	3631250	224.00
-	-	-	-	-	-	-	-	-	-

CARBIDE TIPPED STUB LENGTH TWIST DRILLS

TYPE 3640 - STUB LENGTH - 118° POINT

TYPE 3641 - STUB LENGTH - 135° SPLIT POINT

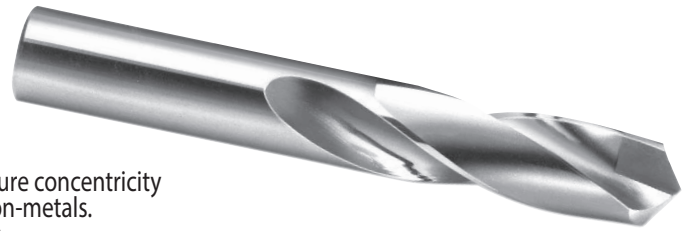
Carbide tip brazed to hardened tool steel bodies.

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	\$28.35	364332	\$31.50
.1200		31	7/8	1 7/8	364231	28.35	364331	31.50
.1250	1/8		7/8	1 7/8	364008	21.30	364108	23.00
.1285		30	15/16	1 15/16	364230	30.05	364330	33.10
.1360		29	15/16	1 15/16	364229	30.05	364329	33.10
.1405		28	15/16	1 15/16	364228	30.05	364328	33.10
.1406	9/64		15/16	1 15/16	364009	25.75	364109	30.30
.1440		27	1	2 1/16	364227	30.05	364327	33.10
.1470		26	1	2 1/16	364226	30.05	364326	33.10
.1495		25	1	2 1/16	364225	30.05	364325	33.10
.1520		24	1	2 1/16	364224	30.05	364324	33.10
.1540		23	1	2 1/16	364223	30.05	364323	33.10
.1562	5/32		1	2 1/16	364010	22.55	364110	24.55
.1570		22	1 1/16	2 7/8	364222	30.05	364322	33.10
.1590		21	1 1/16	2 7/8	364221	30.05	364321	33.10
.1610		20	1 1/16	2 7/8	364220	34.90	364320	38.85
.1660		19	1 1/16	2 7/8	364219	34.90	364319	38.85
.1695		18	1 1/16	2 7/8	364218	34.90	364318	38.85
.1719	11/64		1 1/16	2 7/8	364011	30.65	364111	32.95
.1730		17	1 1/16	2 3/4	364217	35.55	364317	39.45
.1770		16	1 1/16	2 3/4	364216	35.55	364316	39.45
.1800		15	1 1/16	2 3/4	364215	35.55	364315	39.45
.1820		14	1 1/16	2 3/4	364214	35.55	364314	39.45
.1850		13	1 1/16	2 3/4	364213	35.55	364313	39.45
.1875	3/16		1 1/16	2 3/4	364012	23.70	364112	26.00
.1890		12	1 3/16	2 1/4	364212	35.35	364312	39.15
.1910		11	1 3/16	2 1/4	364211	35.35	364311	39.15
.1935		10	1 3/16	2 1/4	364210	35.35	364310	39.15
.1960		9	1 3/16	2 1/4	364209	35.35	364309	39.15
.1990		8	1 3/16	2 1/4	364208	35.35	364308	39.15
.2010		7	1 3/16	2 1/4	364207	31.05	364307	37.25
.2031	13/64		1 3/16	2 1/4	364013	30.65	364113	32.95
.2040		6	1 1/4	2 3/8	364206	35.55	364306	39.45
.2055		5	1 1/4	2 3/8	364205	35.55	364305	39.45
.2090		4	1 1/4	2 3/8	364204	35.55	364304	39.45
.2130		3	1 1/4	2 3/8	364203	31.05	364303	37.25
.2188	7/32		1 1/4	2 3/8	364014	25.45	364114	28.20
.2210		2	1 3/16	2 7/16	364202	35.35	364302	39.15
.2280		1	1 3/16	2 7/16	364201	31.05	364301	39.15
.2340		A	1 3/16	2 7/16	364401	35.35	364501	39.15
.2344	15/64		1 3/16	2 7/16	364015	28.20	364115	33.75
.2380		B	1 3/8	2 1/2	364402	35.35	364502	39.15
.2420		C	1 3/8	2 1/2	364403	35.35	364503	39.15
.2460		D	1 3/8	2 1/2	364404	31.05	364504	37.25
.2500	1/4		E	1 3/8	364016	25.90	364116	29.90
.2570		F	1 7/16	2 5/8	364406	36.10	364506	43.40
.2610		G	1 7/16	2 5/8	364407	36.10	364507	43.40
.2656	17/64		1 7/16	2 5/8	364017	31.50	364117	37.40
.2660		H	1 1/2	2 11/16	364408	34.95	364508	45.40
.2720		I	1 1/2	2 11/16	364409	36.10	364509	43.40
.2770		J	1 1/2	2 11/16	364410	40.80	364510	45.40
.2810		K	1 1/2	2 11/16	364411	40.80	364511	45.40
.2812	9/32		1 1/2	2 11/16	364018	29.80	364118	34.70
.2900		L	1 1/2	2 3/4	364412	42.15	364512	46.70
.2950		M	1 1/2	2 3/4	364413	42.15	364513	46.70
.2969	19/64		1 1/2	2 3/4	364019	36.10	364119	42.75
.3020		N	1 5/8	2 13/16	364414	48.30	364514	53.75
.3125	5/16		1 5/8	2 13/16	364020	31.75	364120	36.95
.3160		O	1 11/16	2 15/16	364415	44.45	364515	53.65
.3230		P	1 11/16	2 15/16	364416	50.50	364516	56.10
.3281	21/64		1 11/16	2 15/16	364021	39.15	364121	45.55

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	\$44.45	364517	\$53.65
.3390		R	1 11/16	3	364418	44.45	364518	53.65
.3438	11/32		1 11/16	3	364022	37.00	364122	42.75
.3480		S	1 3/4	3 1/16	364419	51.05	364519	56.80
.3580		T	1 3/4	3 1/16	364420	51.05	364520	56.80
.3594	23/64		1 3/4	3 1/16	364023	40.40	364123	47.00
.3680		U	1 13/16	3 1/8	364421	45.70	364521	54.95
.3750	3/8		1 13/16	3 1/8	364024	37.95	364124	43.90
.3770		V	1 7/8	3 1/4	364422	58.85	364522	65.30
.3860		W	1 7/8	3 1/4	364423	51.95	364523	62.45
.3906	25/64		1 7/8	3 1/4	364025	44.90	364125	52.20
.3970		X	1 15/16	3 3/8	364424	51.95	364524	65.30
.4040		Y	1 15/16	3 3/8	364425	58.85	364525	65.30
.4062	13/32		1 15/16	3 3/8	364026	44.90	364126	52.20
.4130		Z	2	3 3/8	364426	66.90	364526	74.45
.4219	27/64		2	3 3/8	364027	49.80	364127	56.80
.4375	7/16		2 1/16	3 7/16	364028	48.05	364128	53.35
.4531	29/64		2 1/8	3 9/16	364029	64.10	364129	82.30
.4688	15/32		2 1/8	3 9/16	364030	68.35	364130	79.50
.4844	31/64		2 3/16	3 11/16	364031	61.30	364131	78.80
.5000	1/2		2 1/4	3 3/4	364032	65.45	364132	76.10
.5156	33/64		2 3/8	3 7/8	364033	97.65	364133	108.70
.5312	17/32		2 3/8	3 7/8	364034	81.55	364134	92.05
.5469	35/64		2 1/2	4	364035	97.65	364135	108.70
.5625	9/16		2 1/2	4	364036	81.55	364136	92.05
.5781	37/64		2 5/8	4 1/8	364037	114.05	364137	126.85
.5938	19/32		2 5/8	4 1/8	364038	93.50	364138	105.45
.6094	39/64		2 3/4	4 1/4	364039	114.05	364139	126.85
.6250	5/8		2 3/4	4 1/4	364040	93.50	364140	105.45
.6406	41/64		2 7/8	4 1/2	364041	136.15	364141	151.45
.6562	21/32		2 7/8	4 1/2	364042	112.45	364142	126.95
.6719	43/64		2 7/8	4 5/8	364043	139.60	364143	155.20
.6875	11/16		2 7/8	4 5/8	364044	115.50	364144	130.25
.7031	45/64		3	4 3/4	364045	157.75	364145	175.30
.7188	23/32		3	4 3/4	364046	130.75	364146	151.90
.7344	47/64		3 1/8	5	364047	158.00	364147	175.75
.7500	3/4		3 1/8	5	364048	131.20	364148	147.80
.7656	49/64		3 1/4	5 1/8	364049	169.00	364149	188.10
.7812	25/32		3 1/4	5 1/8	364050	162.10	364150	188.20
.7969	51/64		3 3/8	5 1/4	364051	189.15	364151	210.40
.8125	13/16		3 3/8	5 1/4	364052	162.25	364152	182.95
.8281	53/64		3 1/2	5 3/8	364053	185.35	364153	206.05
.8438	27/32		3 1/2	5 3/8	364054	177.60	364154	206.25
.8594	55/64		3 1/2	5 1/2	364055	207.55	364155	230.85
.8750	7/8		3 1/2	5 1/2	364056	178.00	364156	200.60
.8906	57/64		3 5/8	5 5/8	364057	199.05	364157	221.35
.9062	29/32		3 5/8	5 5/8	364058	190.85	364158	221.45
.9219	59/64		3 3/4	5 3/4	364059	222.75	364159	247.90
.9375	15/16		3 3/4	5 3/4	364060	191.10	364160	215.45
.9531	61/64		3 7/8	5 7/8	364061	222.75	364161	247.90
.9688	31/32		3 7/8	5 7/8	364062	201.60	364162	234.10
.9844	63/64		4	6	364063	235.45	364163	262.00
1.0000	1		4	6	364064	201.90	364164	227.80
1.0312	1 1/32*		4	6 1/4	364066	259.05	364166	328.05
1.0625	1 1/16*		4	6 1/4	364068	252.85	364168	285.30
1.0938	1 3/32*		4	6 3/8	364070	327.35	364170	364.25
1.1250	1 1/8*		4	6 3/8	364072	280.75	364172	316.50
1.1562	1 5/32*		4 1/4	6 3/8	364074	399.60	364174	444.65
1.1875	1 3/16*		4 1/4	6 3/8	364076	342.70	364176	384.10
1.2188	1 7/32*		4 3/8	6 3/4	364078	399.60	364178	444.65
1.2500	1 1/4*		4 3/8	6 3/4	364080	342.70	364180	384.10

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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	\$28.20	3641030	\$31.10
3.1	.1220	22	7/8	48	1 7/8	3640031	28.20	3641031	31.10
3.2	.1260	24	15/16	49	1 15/16	3640032	28.20	3641032	31.10
3.3	.1299	24	15/16	49	1 15/16	3640033	28.20	3641033	31.10
3.4	.1339	24	15/16	49	1 15/16	3640034	28.20	3641034	31.10
3.5	.1378	24	15/16	49	1 15/16	3640035	24.15	3641035	27.65
3.6	.1417	25	1	52	2 1/16	3640036	28.20	3641036	31.10
3.7	.1457	25	1	52	2 1/16	3640037	28.20	3641037	31.10
3.8	.1496	25	1	52	2 1/16	3640038	28.20	3641038	31.10
3.9	.1535	25	1	52	2 1/16	3640039	28.20	3641039	31.10
4.0	.1575	27	1 1/16	54	2 1/8	3640040	24.15	3641040	27.70
4.1	.1614	27	1 1/16	54	2 1/8	3640041	33.65	3641041	37.05
4.2	.1654	27	1 1/16	54	2 1/8	3640042	33.65	3641042	37.05
4.3	.1693	27	1 1/16	54	2 1/8	3640043	33.65	3641043	37.05
4.4	.1732	29	1 1/8	56	2 3/16	3640044	33.65	3641044	37.05
4.5	.1772	29	1 1/8	56	2 3/16	3640045	28.75	3641045	33.05
4.6	.1811	29	1 1/8	56	2 3/16	3640046	33.65	3641046	37.05
4.7	.1850	29	1 1/8	56	2 3/16	364213	35.55	364313	39.45
4.8	.1890	30	1 3/16	57	2 1/4	364212	35.35	364312	39.15
4.9	.1929	30	1 3/16	57	2 1/4	3640049	33.65	3641049	37.05
5.0	.1969	30	1 3/16	57	2 1/4	3640050	28.75	3641050	33.05
5.1	.2008	30	1 3/16	57	2 1/4	3640051	33.65	3641051	37.05
5.2	.2047	32	1 1/4	60	2 3/8	3640052	33.65	3641052	37.05
5.3	.2087	32	1 1/4	60	2 3/8	3640053	33.65	3641053	37.05
5.4	.2126	32	1 1/4	60	2 3/8	3640054	33.65	3641054	37.05
5.5	.2165	32	1 1/4	60	2 3/8	3640055	28.75	3641055	33.05
5.6	.2205	33	1 1/8	62	2 7/16	3640056	33.65	3641056	37.05
5.7	.2244	33	1 1/8	62	2 7/16	3640057	33.65	3641057	37.05
5.8	.2283	33	1 1/8	62	2 7/16	3640058	33.65	3641058	37.05
5.9	.2323	33	1 1/8	62	2 7/16	3640059	33.65	3641059	37.05
6.0	.2362	35	1 3/8	64	2 1/2	3640060	26.90	3641060	30.80
6.1	.2402	35	1 3/8	64	2 1/2	3640061	34.70	3641061	38.50
6.2	.2441	35	1 3/8	64	2 1/2	3640062	34.70	3641062	38.50
6.3	.2480	35	1 3/8	64	2 1/2	3640063	34.70	3641063	38.50
6.4	.2520	37	1 7/16	67	2 5/8	3640064	34.70	3641064	38.50
6.5	.2559	37	1 7/16	67	2 5/8	3640065	29.80	3641065	34.15
6.6	.2598	37	1 7/16	67	2 5/8	3640066	34.70	3641066	38.50
6.7	.2638	37	1 7/16	67	2 5/8	3640067	34.70	3641067	38.50
6.8	.2677	38	1 1/2	68	2 11/16	3640068	34.70	3641068	38.50
6.9	.2717	38	1 1/2	68	2 11/16	3640069	34.70	3641069	38.50
7.0	.2756	38	1 1/2	68	2 11/16	3640070	29.80	3641070	34.15
7.1	.2795	38	1 1/2	68	2 11/16	3640071	34.70	3641071	38.50
7.2	.2835	40	1 5/8	70	2 3/4	3640072	39.90	3641072	44.05
7.3	.2874	40	1 5/8	70	2 3/4	3640073	39.90	3641073	44.05
7.4	.2913	40	1 5/8	70	2 3/4	3640074	39.90	3641074	44.05
7.5	.2953	40	1 5/8	70	2 3/4	3640075	34.25	3641075	39.05
7.6	.2992	41	1 5/8	71	2 13/16	3640076	39.90	3641076	44.05
7.7	.3031	41	1 5/8	71	2 13/16	3640077	39.90	3641077	44.05
7.8	.3071	41	1 5/8	71	2 13/16	3640078	39.90	3641078	44.05
7.9	.3110	41	1 5/8	71	2 13/16	3640079	39.90	3641079	44.05
8.0	.3150	43	1 11/16	75	2 15/16	3640080	34.25	3641080	39.05

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	\$42.90	3641081	\$47.05
8.2	.3228	43	1 11/16	75	2 15/16	3640082	42.90	3641082	47.05
8.3	.3268	43	1 11/16	75	2 15/16	3640083	42.90	3641083	47.05
8.4	.3307	43	1 11/16	76	3	3640084	42.90	3641084	47.05
8.5	.3346	43	1 11/16	76	3	3640085	36.80	3641085	41.60
8.6	.3386	43	1 11/16	76	3	3640086	42.90	3641086	47.05
8.7	.3425	43	1 11/16	76	3	3640087	43.60	3641087	48.10
8.8	.3465	44	1 3/4	78	3 1/8	3640088	43.60	3641088	48.10
8.9	.3504	44	1 3/4	78	3 1/8	3640089	43.60	3641089	48.10
9.0	.3543	44	1 3/4	78	3 1/8	3640090	37.45	3641090	42.90
9.1	.3583	44	1 3/4	78	3 1/8	3640091	43.60	3641091	48.10
9.2	.3622	46	1 13/16	79	3 1/8	3640092	43.60	3641092	48.10
9.3	.3661	46	1 13/16	79	3 1/8	3640093	43.60	3641093	48.10
9.4	.3701	46	1 13/16	79	3 1/8	3640094	43.60	3641094	48.10
9.5	.3740	46	1 13/16	79	3 1/8	3640095	37.45	3641095	42.90
9.6	.3780	48	1 7/8	83	3 1/4	3640096	48.50	3641096	53.55
9.7	.3819	48	1 7/8	83	3 1/4	3640097	48.50	3641097	53.55
9.8	.3858	48	1 7/8	83	3 1/4	3640098	48.50	3641098	53.55
9.9	.3898	48	1 7/8	83	3 1/4	3640099	48.50	3641099	53.55
10.0	.3937	49	1 15/16	84	3 3/8	3640100	41.65	3641100	47.65
10.5	.4134	51	2	86	3 3/8	3640105	46.55	3641105	51.85
11.0	.4331	52	2 1/16	87	3 3/8	3640110	46.55	3641110	51.85
11.5	.4528	54	2 1/8	90	3 5/8	3640115	65.50	3641115	72.60
12.0	.4724	56	2 1/4	94	3 7/8	3640120	62.65	3641120	69.50
12.5	.4921	57	2 1/4	95	3 3/4	3640125	62.65	3641125	69.50
13.0	.5118	60	2 3/8	98	3 7/8	3640130	77.40	3641130	84.05
13.5	.5315	60	2 3/8	98	3 7/8	3640135	75.95	3641135	84.05
14.0	.5512	64	2 1/2	102	4	3640140	75.95	3641140	84.05
14.5	.5709	67	2 5/8	105	4 1/8	3640145	106.95	3641145	117.90
15.0	.5906	67	2 5/8	105	4 1/8	3640150	106.95	3641150	117.90
15.5	.6102	70	2 3/4	108	4 1/4	3640155	120.60	3641155	133.00
16.0	.6299	73	2 7/8	114	4 1/2	3640160	135.95	3641160	149.85
16.5	.6496	73	2 7/8	114	4 1/2	3640165	135.95	3641165	149.85
17.0	.6693	73	2 7/8	117	4 3/4	3640170	135.95	3641170	149.85
17.5	.6890	76	3	121	4 3/4	3640175	149.95	3641175	165.20
18.0	.7087	76	3	121	4 3/4	3640180	149.95	3641180	165.20
18.5	.7283	79	3 1/8	127	5	3640185	163.80	3641185	180.55
19.0	.7480	79	3 1/8	127	5	3640190	163.80	3641190	180.55
19.5	.7677	83	3 1/4	130	5 1/8	3640195	181.15	3641195	199.70
20.0	.7874	86	3 3/8	133	5 1/4	3640200	202.60	3641200	223.10
20.5	.8071	86	3 3/8	133	5 1/4	3640205	202.60	3641205	223.10
21.0	.8268	89	3 1/2	137	5 3/8	3640210	222.40	3641210	244.95
21.5	.8465	89	3 1/2	140	5 1/2	3640215	222.40	3641215	244.95
22.0	.8661	89	3 1/2	140	5 1/2	3640220	222.40	3641220	244.95
22.5	.8858	92	3 5/8	143	5 3/8	3640225	228.85	3641225	252.05
23.0	.9055	92	3 5/8	143	5 3/8	3640230	228.85	3641230	252.05
23.5	.9252	95	3 3/4	146	5 3/4	3640235	234.50	3641235	258.25
24.0	.9449	98	3 7/8	149	5 7/8	3640240	238.85	3641240	263.25
24.5	.9646	98	3 7/8	149	5 7/8	3640245	238.85	3641245	263.25
25.0	.9843	102	4	152	6	3640250	252.30	3641250	277.70
-	-	-	-	-	-	-	-	-	-

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	\$58.25	366116	\$66.00
.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	59.55	366120	67.50
.3281	21/64	1	3 1/4	6 1/2	366021	75.80	366121	85.70
.3438	11/32	1	3 1/4	6 1/2	366022	75.80	366122	85.70
.3594	23/64	1	3 1/2	6 3/4	366023	75.80	366123	85.70
.3750	3/8	1	3 1/2	6 3/4	366024	75.80	366124	85.70
.3906	25/64	1	3 5/8	7	366025	87.70	366125	99.40
.4062	13/32	1	3 5/8	7	366026	87.70	366126	99.40
.4219	27/64	1	3 7/8	7 1/4	366027	87.70	366127	99.40
.4375	7/16	1	3 7/8	7 1/4	366028	76.70	366128	87.00
.4531	29/64	1	4 1/8	7 1/2	366029	93.25	366129	105.70
.4688	15/32	1	4 1/8	7 1/2	366030	93.25	366130	105.70
.4844	31/64	2	4 3/8	8 1/4	366031	93.25	366131	105.70
.5000	1/2	2	4 3/8	8 1/4	366032	73.35	366132	97.70
.5156	33/64	2	4 3/8	8 1/2	366033	94.70	366133	113.70
.5312	17/32	2	4 3/8	8 1/2	366034	77.40	366134	100.50
.5469	35/64	2	4 7/8	8 3/4	366035	96.10	366135	115.30
.5625	9/16	2	4 7/8	8 3/4	366036	78.05	366136	101.90
.5781	37/64	2	4 7/8	8 3/4	366037	100.50	366137	120.75
.5938	19/32	2	4 7/8	8 3/4	366038	86.10	366138	112.75
.6094	39/64	2	4 7/8	8 3/4	366039	116.50	366139	139.85
.6250	5/8	2	4 7/8	8 3/4	366040	94.85	366140	123.50
.6406	41/64	2	5 1/8	9	366041	118.35	366141	142.05
.6562	21/32	2	5 1/8	9	366042	92.45	366142	125.60
.6719	43/64	2	5 3/8	9 1/4	366043	119.75	366143	143.85
.6875	11/16	2	5 3/8	9 1/4	366044	95.40	366144	127.05
.7031	45/64	2	5 3/8	9 1/2	366045	123.05	366145	147.65
.7188	23/32	2	5 3/8	9 1/2	366046	106.05	366146	141.60
.7344	47/64	2	5 7/8	9 3/4	366047	125.50	366147	150.65
.7500	3/4	2	5 7/8	9 3/4	366048	108.55	366148	137.00
.7656	49/64	2	6	9 7/8	366049	133.50	366149	160.30
.7812	25/32	2	6	9 7/8	366050	129.30	366150	160.25
.7969	51/64	3	6 1/8	10 3/4	366051	134.90	366151	161.85
.8125	13/16	3	6 1/8	10 3/4	366052	130.70	366152	161.90

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	\$146.30	366153	\$175.65
.8438	27/32	3	6 1/8	10 3/4	366054	133.40	366154	161.90
.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	141.90	366156	171.10
.8906	57/64	3	6 1/8	10 3/4	366057	152.80	366157	183.20
.9062	29/32	3	6 1/8	10 3/4	366058	153.85	366158	178.30
.9219	59/64	3	6 1/8	10 3/4	366059	155.60	366159	186.55
.9375	15/16	3	6 1/8	10 3/4	366060	156.10	366160	172.55
.9531	61/64	3	6 3/8	11	366061	N/A	366161	N/A
.9688	31/32	3	6 3/8	11	366062	162.90	366162	188.70
.9844	63/64	3	6 3/8	11	366063	170.45	366163	204.55
1.0000	1	3	6 3/8	11	366064	153.65	366164	185.65
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	207.20	366166	235.00
1.0469	1 3/64	3	6 1/2	11 1/4	366067	N/A	366167	N/A
1.0625	1 1/16	3	6 5/8	11 1/4	366068	199.10	366168	252.30
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	220.45	366172	279.80
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	252.55	366176	320.20
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	270.25	366180	343.00
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	382.35	366184	433.00
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	428.45	366188	485.40
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	470.00	366196	532.65
-	-	-	-	-	-	-	-	-

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	\$106.60
.5000	1/2	1	4 3/8	7 3/4	366832	83.80
.5156	33/64	1	4 5/8	8	366833	103.30
.5312	17/32	1	4 5/8	8	366834	88.55
.5469	35/64	1	4 7/8	8 1/4	366835	104.80
.5625	9/16	1	4 7/8	8 1/4	366836	89.20
.7969	51/64	2	6 1/8	10	366851	147.15
.8125	13/16	2	6 1/8	10	366852	124.80
.8281	53/64	2	6 1/8	10	366853	147.15

For drill tolerances, see page 150.

While Supplies Last.

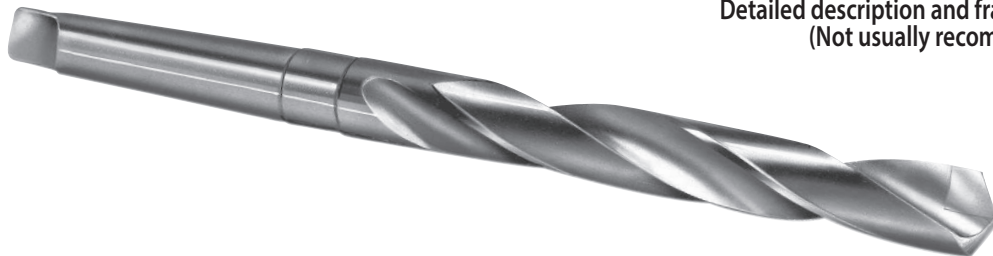
TOOL DIAMETER		MORSE TAPER	LENGTH		TYPE 3668 EDP NO.	PRICE EACH
DECIMAL	FRACTIONAL		FLUTE	OVERALL		
.8438	27/32	2	6 1/8	10	366854	\$127.45
.8594	55/64	2	6 1/8	10	366855	155.40
.8750	7/8	2	6 1/8	10	366856	135.75
.9062	29/32	2	6 1/8	10	366858	145.80
1.0938	1 3/32	3	6 7/8	11 1/2	366870	309.75
1.1250	1 1/8	3	7 1/8	11 3/4	366872	222.60
1.1562	1 5/32	3	7 1/4	11 7/8	366874	302.10
1.1875	1 3/16	3	7 3/8	12	366876	254.95
1.2500	1 1/4	3	7 7/8	12 1/2	366880	272.80

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	\$96.60
13.5	.5315	2	117	4 5/8	216	8 1/2	3660135	89.45
14.0	.5512	2	124	4 7/8	222	8 3/4	3660140	90.70
14.5	.5709	2	124	4 7/8	222	8 3/4	3660145	102.50
15.0	.5906	2	124	4 7/8	222	8 3/4	3660150	95.05
15.5	.6102	2	124	4 7/8	222	8 3/4	3660155	118.85
16.0	.6299	2	130	5 1/8	229	9	3660160	120.75
16.5	.6496	2	130	5 1/8	229	9	3660165	111.95
17.0	.6693	2	137	5 3/8	235	9 1/4	3660170	122.10
17.5	.6890	2	143	5 5/8	241	9 1/2	3660175	125.50
18.0	.7087	2	143	5 5/8	241	9 1/2	3660180	116.25
18.5	.7283	2	149	5 7/8	248	9 3/4	3660185	127.95
19.0	.7480	2	149	5 7/8	248	9 3/4	3660190	118.45

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	\$137.40
21.0	.8268	3	156	6 1/8	273	10 3/4	3660210	137.40
22.0	.8661	3	156	6 1/8	273	10 3/4	3660220	134.55
23.0	.9055	3	156	6 1/8	273	10 3/4	3660230	139.00
24.0	.9449	3	162	6 3/8	279	11	3660240	160.45
25.0	.9843	3	162	6 3/8	279	11	3660250	164.55
26.0	1.0236	3	165	6 1/2	283	11 1/8	3660260	246.55
28.0	1.1024	4	181	7 1/8	324	12 3/4	3660280	273.30
30.0	1.1811	4	187	7 3/8	330	13	3660300	329.05
32.0	1.2598	4	216	8 1/2	359	14 1/8	3660320	408.65
34.0	1.3386	4	222	8 3/4	365	14 3/8	3660340	439.05
36.0	1.4173	4	232	9 1/8	375	14 3/4	3660360	502.65
38.0	1.4961	4	238	9 3/8	381	15	3660380	522.70

CARBIDE TIPPED HARD STEEL DIE DRILLS

DISCONTINUED - WHILE SUPPLIES LAST

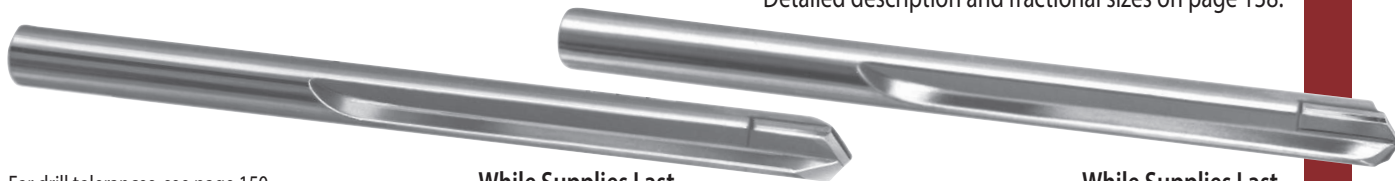
TYPE 3670 - 118° POINT NEGATIVE EDGE

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	\$38.35
5.5	.2165	45	1 3/4	95	3 3/4	3670055	3672055	42.65
6.0	.2362	51	2	102	4	3670060	3672060	42.90
6.5	.2559	51	2	102	4	3670065	3672065	45.45
7.0	.2756	57	2 1/4	108	4 1/4	3670070	3672070	45.45
7.5	.2953	57	2 1/4	108	4 1/4	3670075	3672075	47.45
8.0	.3150	64	2 1/2	114	4 1/2	3670080	3672080	51.25
8.5	.3346	70	2 3/4	121	4 3/4	3670085	3672085	51.25
9.0	.3543	70	2 3/4	121	4 3/4	3670090	3672090	54.60
9.5	.3740	76	3	127	5	3670095	3672095	51.80

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	\$63.70
10.5	.4134	76	3	133	5 1/4	3670105	3672105	73.85
11.0	.4331	76	3	140	5 1/2	3670110	3672110	103.95
11.5	.4528	76	3	140	5 1/2	3670115	3672115	77.75
12.0	.4724	83	3 1/4	146	5 3/4	3670120	3672120	95.05
12.5	.4921	89	3 1/2	152	6	3670125	3672125	95.05
13.0	.5118	89	3 1/2	152	6	3670130	3672130	109.05
13.5	.5315	89	3 1/2	152	6	3670135	3672135	109.05
14.0	.5512	89	3 1/2	152	6	3670140	3672140	113.00
-	-	-	-	-	-	-	-	-

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	-	\$38.00	367104	-	\$38.00
.0781	5/64*	-	1 1/2	367005	-	38.00	367105	-	38.00
.0938	3/32*	-	2	367006	-	41.75	367106	-	41.75
.1094	7/64*	-	2	367007	-	41.75	367107	-	41.75
.1250	1/8*	-	2	367008	-	43.00	367108	-	43.00
.1406	9/64*	-	2	367009	-	43.00	367109	-	43.00
.1562	5/32*	-	2	367010	-	45.30	367110	-	45.30
.1719	11/64*	-	2 3/8	367011	-	45.30	367111	-	45.30
.1875	3/16	1 1/2	3 1/2	367012	367212	41.10	367112	367312	41.10
.2031	13/64	1 1/2	3 1/2	367013	367213	41.10	367113	367313	41.10
.2188	7/32	1 3/4	3 3/4	367014	367214	42.40	367114	367314	42.40
.2344	15/64	1 3/4	3 3/4	367015	367215	43.75	367115	367315	43.75
.2500	1/4	2	4	367016	367216	43.75	367116	367316	43.75
.2656	17/64	2	4	367017	367217	46.30	367117	367317	46.30
.2812	9/32	2 1/4	4 1/4	367018	367218	46.30	367118	367318	46.30
.2969	19/64	2 1/4	4 1/4	367019	367219	48.45	367119	367319	48.45
.3125	5/16	2 1/2	4 1/2	367020	367220	48.45	367120	367320	48.45
.3281	21/64	2 1/2	4 1/2	367021	367221	51.60	367121	367321	51.60
.3438	11/32	2 3/4	4 3/4	367022	367222	51.60	367122	367322	51.60
.3594	23/64	2 3/4	4 3/4	367023	367223	55.50	367123	367323	55.50
.3750	3/8	3	5	367024	367224	55.50	367124	367324	55.50
.3906	25/64	3	5	367025	367225	62.55	367125	367325	62.55
.4062	13/32	3	5 1/4	367026	367226	64.90	367126	367326	64.90
.4219	27/64	3	5 1/4	367027	367227	70.15	367127	367327	70.15
.4375	7/16	3	5 1/2	367028	367228	75.40	367128	367328	75.40
.4531	29/64	3	5 1/2	367029	367229	79.05	367129	367329	79.05
.4688	15/32	3 1/4	5 3/4	367030	367230	82.80	367130	367330	82.80
.4844	31/64	3 1/4	5 3/4	367031	367231	100.40	367131	367331	100.40
.5000	1/2	3 1/2	6	367032	367232	97.10	367132	367332	97.10
.5312	17/32	3 1/2	6	367034	367234	111.30	367134	367334	111.30
.5625	9/16	3 1/2	6	367036	367236	115.15	367136	367336	115.15
.5938	19/32	4	7	367038	367238	121.85	367138	367338	121.85
.6250	5/8	4	7	367040	367240	125.55	367140	367340	125.55
.6562	21/32	4 1/2	7 1/2	367042	367242	134.45	367142	367342	134.45
.6875	11/16	4 1/2	7 1/2	367044	367244	137.95	367144	367344	137.95
.7188	23/32	4 3/4	8	367046	367246	144.65	367146	367346	144.65
.7500	3/4	4 3/4	8	367048	367248	148.60	367148	367348	148.60
.7812	25/32	4 3/4	8	367050	367250	286.90	367150	367350	286.90
.8125	13/16	4 3/4	8	367052	367252	266.35	367152	367352	266.35
.8750	7/8	4 3/4	8	367056	367256	271.90	367156	367356	271.90
.9375	15/16	4 3/4	8	367060	367260	302.85	367160	367360	302.85
1.0000	1	4 3/4	8	367064	367264	321.25	367164	367364	321.25

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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

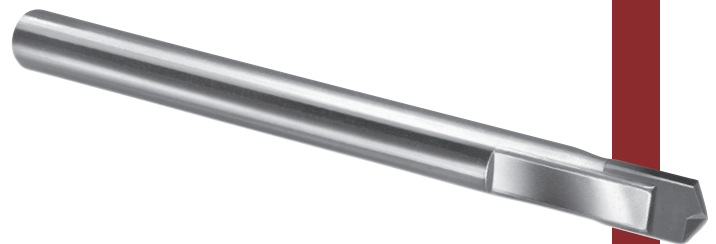
TYPE 3674 - 120° POINT

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	\$24.30
.1094	7/64*	2	367407	367507	24.80
.1250	1/8*	2	367408	367508	24.80
.1406	9/64*	2	367409	367509	26.80
.1562	5/32*	2	367410	367510	30.85
.1719	11/64*	3	367411	367511	32.95
.1875	3/16*	3	367412	367512	39.00
.2031	13/64*	3	367413	367513	43.90

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	\$35.65	361332	\$42.15	.2380		B	2 3/4	361402	\$46.20	361502	\$54.20	.2380		B	2 3/4	361402	\$46.20	361502	\$54.20
.1200		31	1 5/8	361231	31.95	361331	37.55	.2420		C	2 3/4	361403	46.20	361503	54.20	.2420		C	2 3/4	361403	46.20	361503	54.20
.1250	1/8		1 5/8	361008	24.75	361108	29.20	.2460		D	2 3/4	361404	45.40	361504	53.35	.2460		D	2 3/4	361404	45.40	361504	53.35
.1285		30	1 5/8	361230	33.75	361330	39.65	.2500	1/4	E	2 3/4	361016	33.10	361116	39.00	.2500	1/4	E	2 3/4	361016	33.10	361116	39.00
.1360		29	1 3/4	361229	34.80	361329	40.95	.2570		F	2 7/8	361406	47.35	361506	55.70	.2570		F	2 7/8	361406	47.35	361506	55.70
.1405		28	1 3/4	361228	35.35	361328	41.70	.2610		G	2 7/8	361407	48.45	361507	57.05	.2610		G	2 7/8	361407	48.45	361507	57.05
.1406	9/64		1 3/4	361009	26.90	361109	31.65	.2656	17/64		2 7/8	361017	35.35	361117	41.70	.2656	17/64		2 7/8	361017	35.35	361117	41.70
.1440		27	1 7/8	361227	36.20	361327	42.45	.2660		H	2 7/8	361408	49.50	361508	58.25	.2660		H	2 7/8	361408	49.50	361508	58.25
.1470		26	1 7/8	361226	35.35	361326	41.70	.2720		I	2 7/8	361409	48.45	361509	57.05	.2720		I	2 7/8	361409	48.45	361509	57.05
.1495		25	1 7/8	361225	35.35	361325	41.70	.2770		J	2 7/8	361410	49.50	361510	58.25	.2770		J	2 7/8	361410	49.50	361510	58.25
.1520		24	2	361224	36.20	361324	42.45	.2810		K	2 15/16	361411	49.50	361511	58.25	.2810		K	2 15/16	361411	49.50	361511	58.25
.1540		23	2	361223	35.35	361323	41.70	.2812	9/32		2 15/16	361018	35.35	361118	41.70	.2812	9/32		2 15/16	361018	35.35	361118	41.70
.1562	5/32		2	361010	26.30	361110	31.05	.2900		L	2 15/16	361412	49.50	361512	58.25	.2900		L	2 15/16	361412	49.50	361512	58.25
.1570		22	2	361222	38.65	361322	45.55	.2950		M	3 1/16	361413	54.50	361513	64.15	.2950		M	3 1/16	361413	54.50	361513	64.15
.1590		21	2 1/8	361221	37.50	361321	44.15	.2969	19/64		3 1/16	361019	38.40	361119	45.15	.2969	19/64		3 1/16	361019	38.40	361119	45.15
.1610		20	2 1/8	361220	38.40	361320	45.15	.3020		N	3 1/16	361414	53.35	361514	62.80	.3020		N	3 1/16	361414	53.35	361514	62.80
.1660		19	2 1/8	361219	38.40	361319	45.15	.3125	5/16		3 3/16	361020	38.40	361120	45.15	.3125	5/16		3 3/16	361020	38.40	361120	45.15
.1695		18	2 1/8	361218	38.40	361318	45.15	.3160		O	3 3/16	361415	50.75	361515	59.65	.3160		O	3 3/16	361415	50.75	361515	59.65
.1719	11/64		2 1/8	361011	28.80	361111	33.80	.3230		P	3 5/16	361416	53.95	361516	63.40	.3230		P	3 5/16	361416	53.95	361516	63.40
.1730		17	2 3/16	361217	38.40	361317	45.15	.3281	21/64		3 5/16	361021	40.80	361121	48.05	.3281	21/64		3 5/16	361021	40.80	361121	48.05
.1770		16	2 3/16	361216	37.50	361316	44.15	.3320		Q	3 7/16	361417	55.40	361517	65.15	.3320		Q	3 7/16	361417	55.40	361517	65.15
.1800		15	2 3/16	361215	38.65	361315	45.55	.3390		R	3 7/16	361418	53.95	361518	63.40	.3390		R	3 7/16	361418	53.95	361518	63.40
.1820		14	2 3/16	361214	37.50	361314	44.15	.3438	11/32		3 7/16	361022	40.80	361122	48.05	.3438	11/32		3 7/16	361022	40.80	361122	48.05
.1850		13	2 5/16	361213	37.50	361313	44.15	.3480		S	3 1/2	361419	58.35	361519	68.55	.3480		S	3 1/2	361419	58.35	361519	68.55
.1875	3/16		2 5/16	361012	28.05	361112	33.10	.3580		T	3 1/2	361420	59.80	361520	70.30	.3580		T	3 1/2	361420	59.80	361520	70.30
.1890		12	2 5/16	361212	39.10	361312	45.90	.3594	23/64		3 1/2	361023	43.55	361123	51.05	.3594	23/64		3 1/2	361023	43.55	361123	51.05
.1910		11	2 5/16	361211	39.45	361311	46.60	.3680		U	3 5/8	361421	57.50	361521	67.70	.3680		U	3 5/8	361421	57.50	361521	67.70
.1935		10	2 7/16	361210	39.10	361310	45.90	.3750	3/8		3 5/8	361024	43.55	361124	51.05	.3750	3/8		3 5/8	361024	43.55	361124	51.05
.1960		9	2 7/16	361209	39.45	361309	46.60	.3770		V	3 5/8	361422	58.35	361522	68.55	.3770		V	3 5/8	361422	58.35	361522	68.55
.1990		8	2 7/16	361208	39.45	361308	46.60	.3860		W	3 3/4	361423	62.55	361523	73.60	.3860		W	3 3/4	361423	62.55	361523	73.60
.2010		7	2 7/16	361207	39.45	361307	46.60	.3906	25/64		3 3/4	361025	44.70	361125	52.65	.3906	25/64		3 3/4	361025	44.70	361125	52.65
.2031	13/64		2 7/16	361013	30.80	361113	36.20	.3970		X	3 3/4	361424	59.25	361524	69.75	.3970		X	3 3/4	361424	59.25	361524	69.75
.2040		6	2 1/2	361206	40.60	361306	47.85	.4040		Y	3 7/8	361425	61.45	361525	72.30	.4040		Y	3 7/8	361425	61.45	361525	72.30
.2055		5	2 1/2	361205	39.45	361305	46.60	.4062	13/32		3 7/8	361026	44.05	361126	51.80	.4062	13/32		3 7/8	361026	44.05	361126	51.80
.2090		4	2 1/2	361204	37.20	361304	43.75	.4130		Z	3 7/8	361426	69.35	361526	81.55	.4130		Z	3 7/8	361426	69.35	361526	81.55
.2130		3	2 1/2	361203	39.45	361303	46.60	.4219	27/64		3 15/16	361027	48.45	361127	57.05	.4219	27/64		3 15/16	361027	48.45	361127	57.05
.2188	7/32		2 1/2	361014	30.80	361114	36.20	.4375	7/16		4 1/16	361028	48.45	361128	57.05	.4375	7/16		4 1/16	361028	48.45	361128	57.05
.2210		2	2 5/8	361202	38.95	361302	45.70	.4531	29/64		4 3/16	361029	55.65	361129	65.55	.4531	29/64		4 3/16	361029	55.65	361129	65.55
.2280		1	2 5/8	361201	38.40	361301	45.15	.4688	15/32		4 5/16	361030	54.50	361130	64.15	.4688	15/32		4 5/16	361030	54.50	361130	64.15
.2340	A		2 5/8	361401	46.20	361501	54.20	.4844	31/64		4 3/8	361031	61.15	361131	71.95	.4844	31/64		4 3/8	361031	61.15	361131	71.95
.2344	15/64		2 5/8	361015	33.10	361115	39.00	.5000	1/2		4 1/2	361032	61.15	361132	71.95	.5000	1/2		4 1/2	361032	61.15	361132	71.95

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 3/8	36990400	\$3.35
.0410	59	1 1/16	1 5/8	36990410	3.35
.0420	58	1 1/16	1 3/4	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	1/16	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 3/8	2 3/8	36990960	2.65
.0980	40	1 3/8	2 3/8	36990980	2.75
.0995	39	1 3/8	2 3/8	36990995	2.75
.1015	38	1 7/16	2 1/2	36991015	2.75
.1040	37	1 7/16	2 1/2	36991040	2.85
.1065	36	1 7/16	2 1/2	36991065	2.85
.1094	7/64	1 1/2	2 5/8	36991094	2.80
.1100	35	1 1/2	2 5/8	36991100	2.85
.1110	34	1 1/2	2 5/8	36991110	2.85
.1130	33	1 1/2	2 5/8	36991130	2.85
.1160	32	1 5/8	2 3/4	36991160	3.10
.1200	31	1 5/8	2 3/4	36991200	3.10
.1250	1/8	1 5/8	2 3/4	36991250	3.45
.1285	30	1 5/8	2 3/4	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 3/16	3 3/8	36991730	4.60
.1770	16	2 3/16	3 3/8	36991770	4.70
.1800	15	2 3/16	3 3/8	36991800	5.05
.1820	14	2 3/16	3 3/8	36991820	5.05
.1850	13	2 3/16	3 1/2	36991850	5.05
.1875	3/16	2 3/16	3 1/2	36991875	4.55
.1890	12	2 3/16	3 1/2	36991890	5.30
.1910	11	2 3/16	3 1/2	36991910	5.30
.1935	10	2 7/16	3 5/8	36991935	5.30
.1960	9	2 7/16	3 5/8	36991960	5.30
.1990	8	2 7/16	3 5/8	36991990	5.30
.2010	7	2 7/16	3 5/8	36992010	5.30
.2031	13/64	2 7/16	3 5/8	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 5/8	3 7/8	36992210	7.30
.2280	1	2 5/8	3 7/8	36992280	7.30
.2340	A	2 5/8	3 7/8	36992340	8.40
.2344	15/64	2 5/8	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 5/8	36993230	15.40
.3281	21/64	3 3/16	4 5/8	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 5/8	5	36993680	19.45
.3750	3/8	3 5/8	5	36993750	14.40
.3770	V	3 5/8	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 5/16	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"

While Supplies Last.

While Supplies Last.

TOOL DIAMETER		LENGTH		TYPE 3658 EDP NO.	PRICE EACH	DECIMAL SIZE RANGE*
DECIMAL	FRAC.	FLUTE	OVERALL			
.3125	5/16	8	10	365820	\$323.25	.3100 - .3160
.3438	11/32	8	10	365822	323.25	.3281 - .3460
.3750	3/8	9	11	365824	341.65	.3594 - .3770
.4062	13/32	9	11	365826	388.90	.3906 - .4080
.4375	7/16	9	11	365828	388.90	.4200 - .4390
.4688	15/32	9 3/4	12	365830	410.70	.4531 - .4710
.5000	1/2	9 3/4	12	365832	410.70	.4800 - .5030
.5312	17/32	9 3/4	12	365834	440.80	.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	\$474.75	.5430 - .5650
.6250	5/8	10 3/4	13	365840	501.25	.6070 - .6270
.6875	11/16	11 3/4	14	365844	522.00	.6693 - .6900
.7500	3/4	11 3/4	14	365848	552.50	.7320 - .7530
.8125	13/16	12 3/4	15	365852	586.75	.7953 - .8160
.8750	7/8	12 3/4	15	365856	632.25	.8570 - .8780
.9375	15/16	13 3/4	16	365860	675.50	.9180 - .9390
1.0000	1	13 3/4	16	365864	731.55	.9820 - 1.0030

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*Call for decimal size pricing.

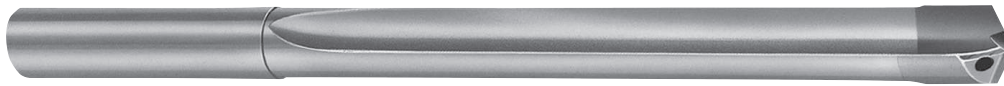
Made in U.S.A.

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.



While Supplies Last.

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	\$224.00	.2490 - .2530
.2656	17/64	4 3/4	6 1/4	365017	224.00	-
.2812	9/32	4 3/4	6 1/4	365018	224.00	.2640 - .2840
.2969	19/64	4 7/8	6 3/8	365019	224.00	-
.3125	5/16	4 7/8	6 3/8	365020	224.00	.2950 - .3160
.3281	21/64	5	6 1/2	365021	215.60	-
.3438	11/32	5	6 1/2	365022	215.60	.3260 - .3460
.3594	23/64	5 1/4	6 3/4	365023	210.05	-
.3750	3/8	5 1/4	6 3/4	365024	218.20	.3540 - .3770
.3906	25/64	5 1/2	7	365025	215.60	-
.4062	13/32	5 1/2	7	365026	215.60	.3850 - .4080
.4219	27/64	5 3/4	7 1/4	365027	222.60	-
.4375	7/16	5 3/4	7 1/4	365028	222.60	.4100 - .4390
.4531	29/64	5 3/4	7 1/2	365029	236.60	-
.4688	15/32	5 3/4	7 1/2	365030	236.60	.4391 - .4724
.4844	31/64	5 3/4	7 3/4	365031	243.65	-
.5000	1/2	5 3/4	7 3/4	365032	243.65	.4725 - .5030
.5156	33/64	6	8	365033	261.45	-
.5312	17/32	6	8	365034	261.45	.5031 - .5330
.5469	35/64	6 1/4	8 1/4	365035	270.85	-
.5625	9/16	6 1/4	8 1/4	365036	275.40	.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	\$326.05	-
.5938	19/32	6 3/4	8 3/4	365038	331.60	.5651 - .5950
.6094	39/64	6 3/4	8 3/4	365039	326.05	-
.6250	5/8	6 3/4	8 3/4	365040	331.60	.5951 - .6270
.6406	41/64	7	9	365041	343.65	-
.6562	21/32	7	9	365042	349.60	.6271 - .6570
.6719	43/64	7 1/4	9 1/4	365043	367.85	-
.6875	11/16	7 1/4	9 1/4	365044	374.35	.6571 - .6900
.7031	45/64	7 1/2	9 1/2	365045	381.90	-
.7188	23/32	7 1/2	9 1/2	365046	388.35	.6901 - .7220
.7344	47/64	7 3/4	9 3/4	365047	385.15	-
.7500	3/4	7 3/4	9 3/4	365048	391.85	.7221 - .7530
.7656	49/64	7 7/8	9 7/8	365049	416.65	-
.7812	25/32	7 7/8	9 7/8	365050	416.65	.7531 - .7840
.8125	13/16	8	10	365052	423.65	.7841 - .8160
.8438	27/32	8	10	365054	448.50	.8161 - .8470
.8750	7/8	8	10	365056	459.05	.8471 - .8780
.9062	29/32	8	10	365058	508.55	.8781 - .9090
.9375	15/16	8 3/4	10 3/4	365060	529.60	.9091 - .9390
.9688	31/32	9	11	365062	534.75	.9391 - .9700
1.0000	1	9	11	365064	534.75	.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".

While Supplies Last.

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	\$204.55	.2490 - .2530
.2656	17/64	2 3/4	5 5/32	365217	204.55	-
.2812	9/32	2 3/4	5 5/32	365218	204.55	.2640 - .2840
.2969	19/64	3 3/16	5 19/32	365219	204.55	-
.3125	5/16	3 3/16	5 19/32	365220	204.55	.2950 - .3160
.3281	21/64	3 7/16	5 27/32	365221	204.55	-
.3438	11/32	3 7/16	5 27/32	365222	204.55	.3260 - .3460
.3594	23/64	3 5/8	6 1/32	365223	206.70	-
.3750	3/8	3 5/8	6 1/32	365224	206.70	.3540 - .3770
.3906	25/64	3 7/8	6 9/32	365225	211.90	-
.4062	13/32	3 7/8	6 9/32	365226	211.90	.3850 - .4080
.4219	27/64	4 1/16	6 15/32	365227	219.05	-
.4375	7/16	4 1/16	6 15/32	365228	219.05	.4100 - .4390
.4531	29/64	4 5/16	6 23/32	365229	233.25	-
.4688	15/32	4 5/16	6 23/32	365230	233.25	.4391 - .4724
.4844	31/64	4 1/2	6 29/32	365231	240.05	-
.5000	1/2	4 1/2	6 29/32	365232	240.05	.4725 - .5030
.5156	33/64	4 13/16	7 7/32	365233	250.10	-
.5312	17/32	4 13/16	7 7/32	365234	254.30	.5031 - .5330
.5469	35/64	4 13/16	7 7/32	365235	263.85	-
.5625	9/16	4 13/16	7 7/32	365236	268.45	.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	\$316.25	-
.5938	19/32	5 3/16	7 19/32	365238	321.50	.5651 - .5950
.6094	39/64	5 3/16	7 19/32	365239	316.25	-
.6250	5/8	5 3/16	7 19/32	365240	321.50	.5951 - .6270
.6406	41/64	5 3/16	7 19/32	365241	339.00	-
.6562	21/32	5 3/16	7 19/32	365242	339.00	.6271 - .6570
.6719	43/64	5 5/8	8 1/32	365243	366.80	-
.6875	11/16	5 5/8	8 1/32	365244	367.30	.6571 - .6900
.7031	45/64	5 5/8	8 1/32	365245	377.70	-
.7188	23/32	5 5/8	8 1/32	365246	377.70	.6901 - .7220
.7344	47/64	6 1/16	8 15/32	365247	381.50	-
.7500	3/4	6 1/16	8 15/32	365248	381.50	.7221 - .7530
.7656	49/64	6 1/16	8 9/16	365249	399.35	-
.7812	25/32	6 1/16	8 9/16	365250	406.20	.7531 - .7840
.8125	13/16	6 1/16	8 9/16	365252	413.00	.7841 - .8160
.8438	27/32	6 1/2	9	365254	437.90	.8161 - .8470
.8750	7/8	6 1/2	9	365256	448.50	.8471 - .8780
.9062	29/32	6 15/16	9 7/16	365258	479.90	.8781 - .9090
.9375	15/16	6 15/16	9 7/16	365260	515.55	.9091 - .9390
.9688	31/32	6 15/16	9 7/16	365262	536.70	.9391 - .9700
1.0000	1	7 3/8	9 7/8	365264	550.75	.9701 - 1.0030

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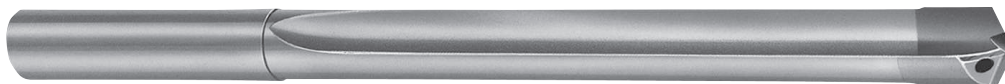
CARBIDE TIPPED STRAIGHT FLUTE COOLANT DRILLS

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	\$233.45	-
7.0	.2756	121	4 3/4	159	6 1/4	3650070	233.45	6.706 - 7.214
7.5	.2953	124	4 7/8	162	6 3/8	3650075	233.45	7.493 - 8.026
8.0	.3150	124	4 7/8	162	6 3/8	3650080	233.45	-
8.5	.3346	127	5	165	6 1/2	3650085	225.45	8.280 - 8.788
9.0	.3543	133	5 1/4	171	6 3/4	3650090	225.45	8.992 - 9.576
9.5	.3740	133	5 1/4	171	6 3/4	3650095	225.45	-
10.0	.3937	140	5 1/2	178	7	3650100	225.45	9.779 - 10.363
10.5	.4134	146	5 3/4	184	7 1/4	3650105	233.45	10.414 - 11.151
11.0	.4331	146	5 3/4	184	7 1/4	3650110	233.45	-
11.5	.4528	146	5 3/4	191	7 1/2	3650115	252.30	11.153 - 12.000
12.0	.4724	146	5 3/4	191	7 1/2	3650120	252.30	-
12.5	.4921	146	5 3/4	197	7 3/4	3650125	257.65	12.002 - 12.776
13.0	.5118	152	6	203	8	3650130	273.70	12.779 - 13.538
13.5	.5315	152	6	203	8	3650135	273.70	-
14.0	.5512	159	6 1/4	210	8 1/4	3650140	287.15	13.541 - 14.351
14.5	.5709	171	6 3/4	222	8 3/4	3650145	348.75	14.354 - 15.113
15.0	.5906	171	6 3/4	222	8 3/4	3650150	348.75	-
15.5	.6102	171	6 3/4	222	8 3/4	3650155	348.75	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	\$356.85	15.928 - 16.688
16.5	.6496	178	7	229	9	3650165	356.85	-
17.0	.6693	184	7 ¼	235	9 ¼	3650170	380.95	16.690 - 17.526
17.5	.6890	184	7 ¼	235	9 ¼	3650175	380.95	-
18.0	.7087	191	7 ½	241	9 ½	3650180	399.85	17.529 - 18.339
18.5	.7283	197	7 ¾	248	9 ¾	3650185	402.45	18.341 - 19.126
19.0	.7480	197	7 ¾	248	9 ¾	3650190	402.45	-
19.5	.7677	200	7 ⅞	251	9 ⅞	3650195	426.70	19.129 - 19.914
20.0	.7874	203	8	254	10	3650200	432.10	19.916 - 20.726
20.5	.8071	203	8	254	10	3650205	432.10	-
21.0	.8268	203	8	254	10	3650210	456.20	20.729 - 21.514
21.5	.8465	203	8	254	10	3650215	456.20	-
22.0	.8661	203	8	254	10	3650220	466.90	21.516 - 22.301
22.5	.8858	203	8	254	10	3650225	515.20	22.304 - 23.089
23.0	.9055	203	8	254	10	3650230	515.20	-
23.5	.9252	222	8 ¾	273	10 ¾	3650235	533.95	23.091 - 23.851
24.0	.9449	229	9	279	11	3650240	555.45	23.853 - 24.638
24.5	.9646	229	9	279	11	3650245	555.45	-
25.0	.9843	229	9	279	11	3650250	555.45	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	\$264.25	-
7.0	.2756	70	2 3/4	131	5 5/32	3652070	264.25	6.706 - 7.214
7.5	.2953	81	3 3/16	142	5 19/32	3652075	264.25	7.493 - 8.026
8.0	.3150	81	3 3/16	142	5 19/32	3652080	264.25	-
8.5	.3346	87	3 7/16	148	5 27/32	3652085	255.15	8.280 - 8.788
9.0	.3543	92	3 5/8	153	6 1/32	3652090	255.15	8.992 - 9.576
9.5	.3740	92	3 5/8	153	6 1/32	3652095	255.15	-
10.0	.3937	98	3 7/8	159	6 9/32	3652100	255.15	9.779 - 10.363
10.5	.4134	103	4 1/16	164	6 15/32	3652105	264.25	10.414 - 11.151
11.0	.4331	103	4 1/16	164	6 15/32	3652110	264.25	-
11.5	.4528	109	4 3/16	171	6 23/32	3652115	285.60	11.153 - 12.000
12.0	.4724	109	4 3/16	171	6 23/32	3652120	285.60	-
12.5	.4921	114	4 1/2	175	6 29/32	3652125	291.70	12.002 - 12.776
13.0	.5118	122	4 13/16	183	7 7/32	3652130	309.80	12.779 - 13.538
13.5	.5315	122	4 13/16	183	7 7/32	3652135	309.80	-
14.0	.5512	122	4 13/16	183	7 7/32	3652140	325.00	13.541 - 14.351
14.5	.5709	131	5 3/16	193	7 19/32	3652145	394.85	14.354 - 15.113
15.0	.5906	131	5 3/16	193	7 19/32	3652150	394.85	-
15.5	.6102	131	5 3/16	193	7 19/32	3652155	394.85	15.116 - 15.924

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	\$403.90	15.928 - 16.688
16.5	.6496	131	5 3/16	193	7 19/32	3652165	403.90	-
17.0	.6693	143	5 5/8	204	8 1/32	3652170	431.25	16.690 - 17.526
17.5	.6890	143	5 5/8	204	8 1/32	3652175	431.25	-
18.0	.7087	143	5 5/8	204	8 1/32	3652180	452.70	17.529 - 18.339
18.5	.7283	154	6 1/16	215	8 15/32	3652185	455.55	18.341 - 19.126
19.0	.7480	154	6 1/16	215	8 15/32	3652190	455.55	-
19.5	.7677	154	6 1/16	217	8 9/16	3652195	483.05	19.129 - 19.914
20.0	.7874	154	6 1/16	217	8 9/16	3652200	489.15	19.916 - 20.726
20.5	.8071	154	6 1/16	217	8 9/16	3652205	489.15	-
21.0	.8268	165	6 1/2	229	9	3652210	516.40	20.729 - 21.514
21.5	.8465	165	6 1/2	229	9	3652215	516.40	-
22.0	.8661	165	6 1/2	229	9	3652220	528.55	21.516 - 22.301
22.5	.8858	176	6 15/16	240	9 7/16	3652225	583.25	22.304 - 23.089
23.0	.9055	176	6 15/16	240	9 7/16	3652230	583.25	-
23.5	.9252	176	6 15/16	240	9 7/16	3652235	604.50	23.091 - 23.851
24.0	.9449	176	6 15/16	240	9 7/16	3652240	628.75	23.853 - 24.638
24.5	.9646	176	6 15/16	240	9 7/16	3652245	623.50	-
25.0	.9843	187	7 3/8	251	9 7/8	3652250	628.75	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	\$224.70	365716	\$281.25
.2812	9/32	3 7/8	6 1/4	365618	224.70	365718	276.80
.3125	5/16	4	6 3/8	365620	N/A	365720	N/A
.3438	11/32	4 1/8	6 1/2	365622	224.70	365722	276.80
.3750	3/8	4 1/4	6 3/4	365624	224.70	365724	276.80
.4062	13/32	4 3/8	7	365626	224.70	365726	297.00
.4375	7/16	4 5/8	7 1/4	365628	224.70	365728	297.00
.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	331.65	365738	395.55
.6250	5/8	5 3/4	8 3/4	365640	331.65	365740	395.55
.6562	21/32	5 7/8	9	365642	352.80	365742	420.70
.6875	11/16	6	9 1/4	365644	378.00	365744	450.60
.7188	23/32	6 1/16	9 1/2	365646	393.80	365746	462.20
.7500	3/4	6 3/8	9 3/4	365648	395.85	365748	464.75

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.

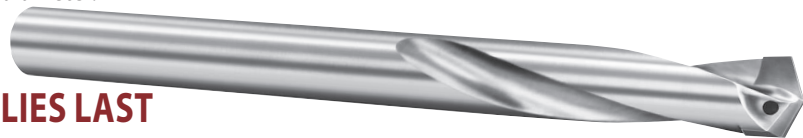
Tool and shank diameter tolerances: +.000"/-.001".

*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".

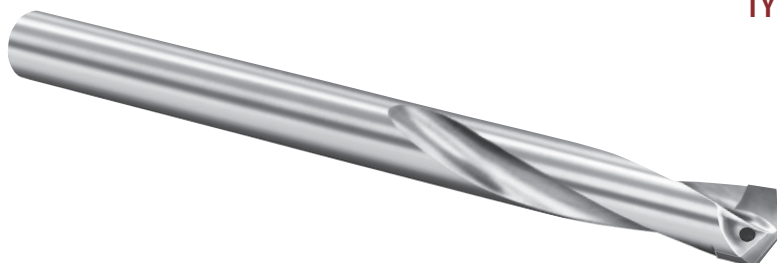
TOOL DIAMETER		FLUTE LENGTH	SHANK & BODY DIAM.	OVER-ALL LENGTH	125° 4 FACET PT.		135° SPLIT PT.	
DECIMAL	FRAC.				TYPE 3654 EDP NO.	PRICE EACH	TYPE 3655 EDP NO.	PRICE EACH
.2500	1/4	1 17/32	.2344	3 15/16	365416	\$208.45	365516	\$256.25
.2656	17/64	1 19/32	.2500	4	365417	237.70	365517	273.70
.2812	9/32	1 19/32	.2656	4	365418	223.30	365518	270.55
.2969	19/64	1 3/4	.2812	4 5/32	365419	237.70	365519	273.70
.3125	5/16	1 3/4	.2969	4 5/32	365420	223.30	365520	270.55
.3281	21/64	1 11/16	.3125	4 11/32	365421	237.70	365521	273.70
.3438	11/32	1 11/16	.3281	4 11/32	365422	223.30	365522	270.55
.3594	23/64	2 1/8	.3438	4 17/32	365423	237.70	365523	284.70
.3750	3/8	2 1/8	.3594	4 17/32	365424	223.30	365524	270.55
.3906	25/64	2 5/32	.3750	4 11/16	365425	237.70	365525	301.35
.4062	13/32	2 5/32	.3906	4 11/16	365426	223.30	365526	290.10
.4219	27/64	2 1/2	.4062	4 29/32	365427	237.70	365527	301.35
.4375	7/16	2 1/2	.4219	4 29/32	365428	223.30	365528	290.10
.4531	29/64	2 21/32	.4375	5 1/16	365429	251.45	365529	301.35
.4688	15/32	2 21/32	.4531	5 1/16	365430	237.80	365530	290.10
.4844	31/64	2 13/16	.4688	5 7/32	365431	257.05	365531	301.35
.5000	1/2	2 13/16	.4844	5 7/32	365432	244.85	365532	290.10
.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 9/32	.5781	5 11/16	365438	262.00	365538	307.25
.6094	39/64	3 7/16	.5938	5 27/32	365439	273.70	365539	315.00
.6250	5/8	3 7/16	.6094	5 27/32	365440	262.00	365540	307.25
.6406	41/64	3 21/32	.6250	6 1/16	365441	273.70	365541	315.00
.6562	21/32	3 21/32	.6406	6 1/16	365442	262.00	365542	307.25
.6719	43/64	3 13/16	.6562	6 7/32	365443	\$273.70	365543	\$315.00
.6875	11/16	3 13/16	.6719	6 7/32	365444	262.00	365544	307.25
.7031	45/64	3 15/16	.6875	6 11/32	365445	304.15	365545	348.30
.7188	23/32	3 15/16	.7031	6 11/32	365446	292.95	365546	338.10
.7344	47/64	4 1/8	.7188	6 17/32	365447	304.15	365547	348.30
.7500	3/4	4 1/8	.7344	6 17/32	365448	292.95	365548	338.10
.7656	49/64	4 9/32	.7500	6 25/32	365449	304.15	365549	348.30
.7812	25/32	4 9/32	.7656	6 25/32	365450	292.95	365550	338.10
.7969	51/64	4 7/16	.7812	6 15/16	365451	362.10	365551	403.55
.8125	13/16	4 7/16	.7969	6 15/16	365452	349.50	365552	394.30
.8281	53/64	4 19/32	.8125	7 3/32	365453	362.10	365553	403.55
.8438	27/32	4 19/32	.8281	7 3/32	365454	349.50	365554	394.30
.8594	55/64	4 11/16	.8438	7 3/16	365455	362.10	365555	403.55
.8750	7/8	4 11/16	.8594	7 3/16	365456	349.50	365556	394.30
.8906	57/64	4 7/8	.8750	7 3/8	365457	384.10	365557	428.45
.9062	29/32	4 7/8	.8906	7 3/8	365458	372.05	365558	417.00
.9219	59/64	5 1/32	.9062	7 17/32	365459	384.10	365559	428.45
.9375	15/16	5 1/32	.9219	7 17/32	365460	372.05	365560	417.00
.9531	61/64	5 3/16	.9375	7 11/16	365461	406.30	365561	450.50
.9688	31/32	5 3/16	.9531	7 11/16	365462	391.60	365562	436.60
.9844	63/64	5 3/16	.9688	7 13/16	365463	406.30	365563	450.50
1.0000	1	5 5/16	.9844	7 13/16	365464	391.60	365564	436.60
1.0312	1 1/32	5 11/16	1.0000	8 3/16	365466	422.60	365566	467.65
1.0625	1 1/16	5 11/16	1.0000	8 3/16	365468	436.60	365568	481.80
1.0938	1 3/32	5 11/16	1.0000	8 3/16	365470	447.95	365570	493.10
1.1250	1 1/8	5 11/16	1.0000	8 3/16	365472	464.85	365572	510.00
-	-	-	-	-	-	-	-	-

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	\$224.00	3655065	\$262.55
7.0	.2756	40	1 19/32	6.5	.2559	102	4	3654070	237.70	3655070	273.70
7.5	.2953	40	1 19/32	7.0	.2756	102	4	3654075	237.70	3655075	273.70
8.0	.3150	44	1 3/4	7.5	.2953	106	4 5/32	3654080	237.70	3655080	273.70
8.5	.3346	49	1 15/16	8.0	.3150	110	4 11/32	3654085	237.70	3655085	284.70
9.0	.3543	49	1 15/16	8.5	.3346	110	4 11/32	3654090	237.70	3655090	284.70
9.5	.3740	54	2 1/8	9.0	.3543	115	4 17/32	3654095	237.70	3655095	284.70
10.0	.3937	58	2 9/32	9.5	.3740	119	4 11/16	3654100	237.70	3655100	301.35
10.5	.4134	58	2 9/32	10.0	.3937	119	4 11/16	3654105	237.70	3655105	301.35
11.0	.4331	64	2 1/2	10.5	.4134	125	4 29/32	3654110	237.70	3655110	301.35
11.5	.4528	67	2 21/32	11.0	.4331	129	5 1/16	3654115	251.45	3655115	301.35
12.0	.4724	67	2 21/32	11.5	.4528	129	5 1/16	3654120	251.45	3655120	301.35
12.5	.4921	71	2 13/16	12.0	.4724	133	5 7/32	3654125	257.05	3655125	301.35
13.0	.5118	76	3	12.5	.4921	137	5 13/32	3654130	254.15	3655130	301.35
13.5	.5315	76	3	13.0	.5118	137	5 13/32	3654135	254.15	3655135	301.35
14.0	.5512	79	3 1/8	13.5	.5315	140	5 17/32	3654140	254.15	3655140	301.35
14.5	.5709	83	3 9/32	14.0	.5512	144	5 11/16	3654145	273.70	3655145	315.00
15.0	.5906	83	3 9/32	14.5	.5709	144	5 11/16	3654150	273.70	3655150	315.00
15.5	.6102	87	3 7/16	15.0	.5906	148	5 27/32	3654155	273.70	3655155	315.00
16.0	.6299	87	3 7/16	15.5	.6102	148	5 27/32	3654160	273.70	3655160	315.00
16.5	.6496	93	3 21/32	16.0	.6299	154	6 1/16	3654165	273.70	3655165	315.00
17.0	.6693	93	3 21/32	16.5	.6496	154	6 1/16	3654170	273.70	3655170	315.00
17.5	.6890	97	3 13/16	17.0	.6693	158	6 7/32	3654175	273.70	3655175	348.30
18.0	.7087	100	3 15/16	17.5	.6890	161	6 11/32	3654180	304.15	3655180	348.30
18.5	.7283	100	3 15/16	18.0	.7087	161	6 11/32	3654185	304.15	3655185	348.30
19.0	.7480	105	4 1/8	18.5	.7283	166	6 17/32	3654190	304.15	3655190	348.30
19.5	.7677	109	4 9/32	19.0	.7480	172	6 25/32	3654195	304.15	3655195	348.30
20.0	.7874	109	4 9/32	19.5	.7677	172	6 25/32	3654200	304.15	3655200	403.55
20.5	.8071	113	4 7/16	20.0	.7874	176	6 15/16	3654205	362.10	3655205	403.55
21.0	.8268	117	4 19/32	20.5	.8071	180	7 3/32	3654210	362.10	3655210	403.55
21.5	.8465	117	4 19/32	21.0	.8268	180	7 3/32	3654215	362.10	3655215	403.55
22.0	.8661	119	4 11/16	21.5	.8465	183	7 3/16	3654220	362.10	3655220	403.55
22.5	.8858	124	4 7/8	22.0	.8661	187	7 3/8	3654225	384.10	3655225	428.45
23.0	.9055	124	4 7/8	22.5	.8858	187	7 3/8	3654230	384.10	3655230	428.45
23.5	.9252	128	5 1/2	23.0	.9055	191	7 17/32	3654235	384.10	3655235	428.45
24.0	.9449	132	5 3/16	23.5	.9252	195	7 11/16	3654240	406.30	3655240	450.50
24.5	.9646	132	5 3/16	24.0	.9449	195	7 11/16	3654245	406.30	3655245	450.50
25.0	.9843	135	5 3/16	24.5	.9646	198	7 13/16	3654250	406.30	3655250	450.50
26.0	1.0236	144	5 11/16	25.5	1.0039	208	8 3/16	3654260	436.60	3655260	481.05

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.	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	362012	1	362212	\$147.80	.3471 - .3780	\$201.75	\$174.60	\$165.65	\$161.35	\$156.60	\$153.15
.4062	13/32"	.284	3 5/8	5/8	7	13/32	362013	1	362213	147.80	.3781 - .4090	201.75	174.60	165.65	161.35	156.60	153.15
.4375	7/16"	.306	3 7/8	3/4	7 1/4	7/16	362014	1	362214	147.80	.4091 - .4410	201.75	174.60	165.65	161.35	156.60	153.15
.4688	15/32"	.328	4 1/8	3/4	7 1/2	15/32	362015	1	362215	147.80	.4411 - .4720	201.75	174.60	165.65	161.35	156.60	153.15
.5000	1/2	.350	4 3/8	3/4	8 1/4	1/2	362016	2	362216	147.80	.4721 - .5030	201.75	174.60	165.65	161.35	156.60	153.15
.5312	17/32	.372	4 3/8	3/4	8 1/4	17/32	362017	2	362217	148.30	.5031 - .5340	202.50	175.45	166.25	162.05	157.35	153.60
.5625	9/16	.394	4 3/8	3/4	8 1/4	9/16	362018	2	362218	148.30	.5341 - .5660	202.50	175.45	166.25	162.05	157.35	153.60
.5938	19/32	.416	4 3/8	3/4	8 1/4	19/32	362019	2	362219	155.85	.5661 - .5970	209.80	182.75	173.75	169.40	164.80	161.20
.6250	5/8	.438	4 3/8	3/4	8 1/4	5/8	362020	2	362220	155.85	.5971 - .6280	209.80	182.75	173.75	169.40	164.80	161.20
.6562	21/32	.459	4 3/8	3/4	8 1/4	21/32	362021	2	362221	157.60	.6281 - .6590	211.70	184.55	175.60	171.15	166.70	163.05
.6875	11/16	.481	4 3/8	7/8	8 1/4	11/16	362022	2	362222	159.05	.6591 - .6910	213.10	186.05	176.90	172.60	168.00	164.25
.7188	23/32	.503	4 3/8	7/8	8 1/4	23/32	362023	2	362223	159.05	.6911 - .7220	213.10	186.05	176.90	172.60	168.00	164.25
.7500	3/4	.525	4 3/8	7/8	8 1/4	3/4	362024	2	362224	159.05	.7221 - .7530	213.10	186.05	176.90	172.60	168.00	164.25
.7812	25/32	.547	4 3/8	7/8	8 1/4	25/32	362025	2	362225	162.50	.7531 - .7840	216.55	189.50	180.45	176.15	171.55	167.85
.8125	13/16	.569	4 7/8	7/8	9 1/2	13/16	362026	3	362226	167.00	.7841 - .8160	221.15	194.10	184.95	180.75	175.90	172.45
.8438	27/32	.591	4 7/8	7/8	9 1/2	27/32	362027	3	362227	175.90	.8161 - .8470	230.05	202.95	193.90	189.55	184.95	181.30
.8750	7/8	.612	4 7/8	7/8	9 1/2	7/8	362028	3	362228	175.90	.8471 - .8780	230.05	202.95	193.90	189.55	184.95	181.30
.9062	29/32	.634	4 7/8	7/8	9 1/2	29/32	362029	3	362229	177.05	.8781 - .9090	231.10	204.10	194.90	190.70	186.10	182.45
.9375	15/16	.656	4 7/8	7/8	9 1/2	15/16	362030	3	362230	177.05	.9091 - .9410	231.10	204.10	194.90	190.70	186.10	182.45
.9688	31/32	.678	4 7/8	7/8	9 1/2	31/32	362031	3	362231	183.75	.9411 - .9720	237.60	210.50	201.60	197.30	192.55	189.00
1.0000	1	.700	4 7/8	7/8	9 1/2	1	362032	3	362232	187.10	.9721 - 1.0030	241.15	214.10	204.90	200.65	196.00	192.40
1.0312	1 1/32	.722	4 7/8	7/8	9 1/2	1 1/32	362033	3	362233	188.65	1.0031 - 1.0340	242.60	215.45	206.55	202.15	197.60	193.90
1.0625	1 1/16	.744	4 7/8	7/8	9 1/2	1 1/16	362034	3	362234	191.25	1.0341 - 1.0660	245.35	218.20	209.20	204.80	200.15	196.55
1.0938	1 1/32	.766	4 7/8	1	10 1/2	1 1/32	362035	4	362235	222.75	1.0661 - 1.0970	276.70	249.75	240.70	236.40	231.70	228.05
1.1250	1 1/8	.787	4 7/8	1	10 1/2	1 1/8	362036	4	362236	222.75	1.0971 - 1.1280	276.70	249.75	240.70	236.40	231.70	228.05
1.1562	1 1/32	.809	4 7/8	1	10 1/2	1 1/32	362037	4	362237	243.20	1.1281 - 1.1590	297.15	270.20	261.15	256.85	252.20	248.50
1.1875	1 3/16	.831	4 7/8	1	10 1/2	1 3/16	362038	4	362238	250.25	1.1591 - 1.1905	304.20	277.30	268.10	263.85	259.30	255.65
1.2188	1 7/32	.853	4 7/8	1	10 1/2	1 7/32	362039	4	362239	251.20	1.1906 - 1.2220	305.20	278.10	269.10	264.75	260.05	256.45
1.2500	1 1/4	.875	4 7/8	1	10 1/2	1 1/4	362040	4	362240	252.20	1.2221 - 1.2530	306.20	279.15	270.10	265.75	261.15	257.45
1.2812	1 1/32	.897	4 7/8	1	10 1/2	1 1/32	362041	4	362241	270.20	1.2531 - 1.2840	324.25	297.10	288.15	283.70	279.15	275.40
1.3125	1 1/16	.919	4 7/8	1	10 1/2	1 1/16	362042	4	362242	277.70	1.2841 - 1.3150	331.80	304.70	295.55	291.35	286.65	282.90
1.3438	1 1/32	.940	4 7/8	1	10 1/2	1 1/32	362043	4	362243	283.55	1.3151 - 1.3470	337.55	310.50	301.40	297.10	292.55	288.75
1.3750	1 3/8	.962	4 7/8	1	10 1/2	1 3/8	362044	4	362244	290.45	1.3471 - 1.3780	344.40	317.40	308.30	304.00	299.40	295.65
1.4062	1 13/32	.984	4 7/8	1	10 1/2	1 13/32	362045	4	362245	297.00	1.3781 - 1.4090	351.05	324.10	314.90	310.60	306.00	302.30
1.4375	1 7/16	1.006	4 7/8	1	10 1/2	1 7/16	362046	4	362246	305.70	1.4091 - 1.4410	359.80	332.80	323.60	319.30	314.70	311.05
1.4688	1 15/32	1.025	4 7/8	1	10 1/2	1 15/32	362047	4	362247	314.80	1.4411 - 1.4720	368.75	341.70	332.80	328.45	323.70	320.15
1.5000	1 1/2	1.050	4 7/8	1	10 1/2	1 1/2	362048	4	362248	321.60	1.4721 - 1.5030	375.60	348.45	339.50	335.20	330.45	327.00

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CARBIDE TIPPED CORE DRILLS FOR NON-FERROUS & CAST IRON

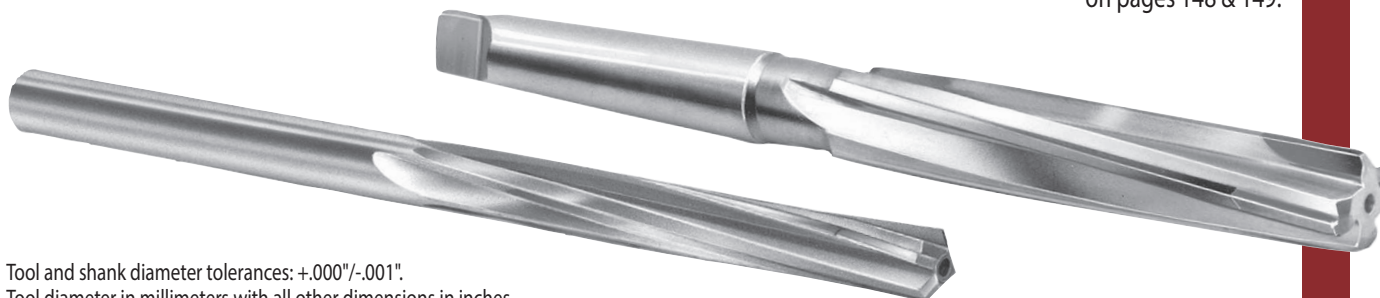
METRIC

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	\$165.65	8.815-9.601	\$206.25	\$179.35	\$170.15	\$165.80	\$161.35	\$157.50	\$152.30
10.0*	.3937	.284	3 3/8	5/8	7	13/32	3620100	1	3622100	165.65	9.602-10.389	206.25	179.35	170.15	165.80	161.35	157.50	152.30
11.0*	.4331	.306	3 7/8	3/4	7 1/4	7/16	3620110	1	3622110	165.65	10.390-11.201	206.25	179.35	170.15	165.80	161.35	157.50	152.30
-*	-	.328	4 1/8	3/4	7 1/2	15/32	3620119	1	3622119	-	11.202-11.989	206.25	179.35	170.15	165.80	161.35	157.50	152.30
12.0	.4724	.350	4 3/8	3/4	8 1/4	1/2	3620120	2	3622120	165.65	11.990-12.776	206.25	179.35	170.15	165.80	161.35	157.50	152.30
13.0	.5118	.372	4 3/8	3/4	8 1/4	17/32	3620130	2	3622130	166.25	12.777-13.564	206.90	180.05	170.95	166.65	162.05	158.30	153.15
14.0	.5512	.394	4 3/8	3/4	8 1/4	9/16	3620140	2	3622140	166.25	13.565-14.376	206.90	180.05	170.95	166.65	162.05	158.30	153.15
15.0	.5906	.416	4 3/8	3/4	8 1/4	19/32	3620150	2	3622150	173.75	14.377-15.164	214.40	187.40	178.35	173.90	169.40	165.65	160.45
-	-	.438	4 3/8	3/4	8 1/4	5/8	3620159	2	3622159	-	15.165-15.951	214.40	187.40	178.35	173.90	169.40	165.65	160.45
16.0	.6299	.459	4 3/8	3/4	8 1/4	21/32	3620160	2	3622160	175.60	15.952-16.739	216.30	189.25	180.20	175.75	171.15	167.40	162.35
17.0	.6693	.481	4 3/8	7/8	8 1/4	11/16	3620170	2	3622170	176.90	16.740-17.551	217.60	190.55	181.45	177.05	172.60	168.80	163.55
18.0	.7087	.503	4 3/8	7/8	8 1/4	23/32	3620180	2	3622180	176.90	17.552-18.339	217.60	190.55	181.45	177.05	172.60	168.80	163.55
19.0	.7480	.525	4 3/8	7/8	8 1/4	3/4	3620190	2	3622190	176.90	18.340-19.126	217.60	190.55	181.45	177.05	172.60	168.80	163.55
-	-	.547	4 3/8	7/8	8 1/4	25/32	3620199	2	3622199	-	19.127-19.914	221.15	194.25	185.20	180.75	176.15	172.45	167.15
20.0	.7874	.569	4 7/8	7/8	9 1/2	13/16	3620200	3	3622200	184.95	19.915-20.726	225.60	198.75	189.55	185.25	180.75	176.90	171.70
21.0	.8268	.591	4 7/8	7/8	9 1/2	27/32	3620210	3	3622210	193.90	20.727-21.514	234.65	207.65	198.60	194.25	189.55	185.95	180.75
22.0	.8661	.612	4 7/8	7/8	9 1/2	7/8	3620220	3	3622220	193.90	21.515-22.301	234.65	207.65	198.60	194.25	189.55	185.95	180.75
23.0	.9055	.634	4 7/8	7/8	9 1/2	29/32	3620230	3	3622230	194.90	22.302-23.089	235.70	208.70	199.75	195.15	190.70	187.05	181.80
-	-	.656	4 7/8	7/8	9 1/2	15/16	3620239	3	3622239	-	23.090-23.901	235.70	208.70	199.75	195.15	190.70	187.05	181.80
24.0	.9449	.678	4 7/8	7/8	9 1/2	31/32	3620240	3	3622240	201.60	23.902-24.689	242.20	215.25	206.20	201.75	197.30	193.40	188.25
25.0	.9843	.700	4 7/8	7/8	9 1/2	1	3620250	3	3622250	204.90	24.690-25.476	245.65	218.70	209.65	205.20	200.65	196.90	191.70
26.0	1.0236	.722	4 7/8	7/8	9 1/2	1 1/32	3620260	3	3622260	206.55	25.477-26.264	247.20	220.20	211.15	206.75	202.15	198.50	193.25
27.0	1.0630	.744	4 7/8	7/8	9 1/2	1 1/16	3620270	3	3622270	209.20	26.265-27.076	249.95	222.80	213.80	209.40	204.80	201.15	195.90
-	-	.766	4 7/8	1	10 1/2	1 3/32	3620279	4	3622279	-	27.077-27.864	281.30	254.30	245.35	240.85	236.40	232.55	227.50
28.0	1.1024	.787	4 7/8	1	10 1/2	1 1/8	3620280	4	3622280	240.70	27.865-28.651	281.30	254.30	245.35	240.85	236.40	232.55	227.50
29.0	1.1417	.809	4 7/8	1	10 1/2	1 5/32	3620290	4	3622290	261.15	28.652-29.439	301.75	274.85	265.75	261.40	256.85	252.95	247.75
30.0	1.1811	.831	4 7/8	1	10 1/2	1 3/16	3620300	4	3622300	268.10	29.440-30.239	308.80	281.85	272.95	268.30	263.85	260.05	254.95
31.0	1.2205	.853	4 7/8	1	10 1/2	1 7/32	3620310	4	3622310	269.10	30.240-31.039	309.75	282.75	273.80	269.25	264.75	260.90	255.80
-	-	.875	4 7/8	1	10 1/2	1 1/4	3620319	4	3622319	-	31.040-31.826	310.65	283.70	274.80	270.35	265.75	262.00	256.85
32.0	1.2598	.897	4 7/8	1	10 1/2	1 9/32	3620320	4	3622320	288.15	31.827-32.614	328.85	301.75	292.75	288.35	283.70	280.00	274.85
33.0	1.2992	.919	4 7/8	1	10 1/2	1 5/16	3620330	4	3622330	295.55	32.615-33.401	336.20	309.20	300.15	295.70	291.35	287.60	282.40
34.0	1.3386	.940	4 7/8	1	10 1/2	1 11/32	3620340	4	3622340	301.40	33.402-34.214	342.25	315.25	306.15	301.70	297.10	293.40	288.30
35.0	1.3780	.962	4 7/8	1	10 1/2	1 3/8	3620350	4	3622350	308.30	34.215-35.001	349.05	322.00	312.95	308.50	304.00	300.15	295.10
-	-	.984	4 7/8	1	10 1/2	1 13/32	3620359	4	3622359	-	35.002-35.789	355.60	328.75	319.50	315.25	310.60	306.90	301.70
36.0	1.4173	1.006	4 7/8	1	10 1/2	1 7/16	3620360	4	3622360	323.60	35.790-36.601	364.30	337.35	328.35	323.75	319.30	315.55	310.45
37.0	1.4567	1.025	4 7/8	1	10 1/2	1 15/32	3620370	4	3622370	332.80	36.602-37.389	373.35	346.45	337.35	332.95	328.45	324.60	319.40
38.0	1.4961	1.050	4 7/8	1	10 1/2	1 1/2	3620380	4	3622380	339.50	37.390-38.176	380.10	353.15	344.15	339.65	335.20	331.35	326.15

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*3 flutes.

Made in U.S.A.

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	\$162.65	.3471 - .3780	\$216.70	189.55	180.50	\$176.30	\$171.60	\$168.00
.4062	13/32"	.284	3 5/8	5/8	7	13/32	362113	1	362313	162.65	.3781 - .4090	216.70	189.55	180.50	176.30	171.60	168.00
.4375	7/16"	.306	3 7/8	3/4	7 1/4	7/16	362114	1	362314	162.65	.4091 - .4410	216.70	189.55	180.50	176.30	171.60	168.00
.4688	15/32"	.328	4 1/8	3/4	7 1/2	15/32	362115	1	362315	162.65	.4411 - .4720	216.70	189.55	180.50	176.30	171.60	168.00
.5000	1/2	.350	4 3/8	3/4	8 1/4	1/2	362116	2	362316	162.65	.4721 - .5030	216.70	189.55	180.50	176.30	171.60	168.00
.5312	17/32	.372	4 3/8	3/4	8 1/4	17/32	362117	2	362317	163.25	.5031 - .5340	217.25	190.25	181.10	176.85	172.15	168.55
.5625	9/16	.394	4 3/8	3/4	8 1/4	9/16	362118	2	362318	163.25	.5341 - .5660	217.25	190.25	181.10	176.85	172.15	168.55
.5938	19/32	.416	4 3/8	3/4	8 1/4	19/32	362119	2	362319	171.55	.5661 - .5970	225.50	198.50	189.35	185.20	180.45	176.85
.6250	5/8	.438	4 3/8	3/4	8 1/4	5/8	362120	2	362320	171.55	.5971 - .6280	225.50	198.50	189.35	185.20	180.45	176.85
.6562	21/32	.459	4 3/8	3/4	8 1/4	21/32	362121	2	362321	173.55	.6281 - .6590	227.50	200.30	191.25	187.05	182.35	178.65
.6875	11/16	.481	4 3/8	7/8	8 1/4	11/16	362122	2	362322	175.00	.6591 - .6910	228.95	201.80	192.85	188.50	183.95	180.20
.7188	23/32	.503	4 3/8	7/8	8 1/4	23/32	362123	2	362323	175.00	.6911 - .7220	228.95	201.80	192.85	188.50	183.95	180.20
.7500	3/4	.525	4 3/8	7/8	8 1/4	3/4	362124	2	362324	175.00	.7221 - .7530	228.95	201.80	192.85	188.50	183.95	180.20
.7812	25/32	.547	4 3/8	7/8	8 1/4	25/32	362125	2	362325	178.65	.7531 - .7840	232.65	205.75	196.55	192.25	187.55	184.05
.8125	13/16	.569	4 7/8	7/8	9 1/2	13/16	362126	3	362326	183.80	.7841 - .8160	237.75	210.80	201.65	197.45	192.75	189.10
.8438	27/32	.591	4 7/8	7/8	9 1/2	27/32	362127	3	362327	193.60	.8161 - .8470	247.60	220.60	211.50	207.20	202.65	198.90
.8750	7/8	.612	4 7/8	7/8	9 1/2	7/8	362128	3	362328	193.60	.8471 - .8780	247.60	220.60	211.50	207.20	202.65	198.90
.9062	29/32	.634	4 7/8	7/8	9 1/2	29/32	362129	3	362329	194.75	.8781 - .9090	248.80	221.85	212.70	208.40	203.80	200.05
.9375	15/16	.656	4 7/8	7/8	9 1/2	15/16	362130	3	362330	194.75	.9091 - .9410	248.80	221.85	212.70	208.40	203.80	200.05
.9688	31/32	.678	4 7/8	7/8	9 1/2	31/32	362131	3	362331	201.90	.9411 - .9720	255.95	228.95	219.85	215.45	211.00	207.35
1.0000	1	.700	4 7/8	7/8	9 1/2	1	362132	3	362332	205.90	.9721 - 1.0030	259.85	232.85	223.75	219.45	214.95	211.15
1.0312	1 1/32	.722	4 7/8	7/8	9 1/2	1 1/32	362133	3	362333	207.40	1.0031 - 1.0340	261.45	234.30	225.25	221.05	216.40	212.70
1.0625	1 1/16	.744	4 7/8	7/8	9 1/2	1 1/16	362134	3	362334	210.25	1.0341 - 1.0660	264.30	237.25	228.10	223.80	219.30	215.45
1.0938	1 3/32	.766	4 7/8	1	10 1/2	1 3/32	362135	4	362335	245.05	1.0661 - 1.0970	298.95	271.95	262.85	258.60	253.95	250.25
1.1250	1 1/8	.787	4 7/8	1	10 1/2	1 1/8	362136	4	362336	256.00	1.0971 - 1.1280	310.20	283.15	274.00	269.65	265.05	261.45
1.1562	1 1/16	.809	4 7/8	1	10 1/2	1 1/16	362137	4	362337	267.60	1.1281 - 1.1590	321.60	294.50	285.45	281.15	276.40	272.95
1.1875	1 3/16	.831	4 7/8	1	10 1/2	1 3/16	362138	4	362338	275.25	1.1591 - 1.1905	329.30	302.30	293.25	288.90	284.35	280.70
1.2188	1 1/8	.853	4 7/8	1	10 1/2	1 1/8	362139	4	362339	276.30	1.1906 - 1.2220	330.35	303.30	294.25	289.90	285.35	281.70
1.2500	1 1/4	.875	4 7/8	1	10 1/2	1 1/4	362140	4	362340	277.40	1.2221 - 1.2530	331.35	304.20	295.25	290.95	286.35	282.70
1.2812	1 1/8	.897	4 7/8	1	10 1/2	1 1/8	362141	4	362341	297.10	1.2531 - 1.2840	351.15	324.15	314.95	310.65	306.15	302.40
1.3125	1 5/16	.919	4 7/8	1	10 1/2	1 5/16	362142	4	362342	305.35	1.2841 - 1.3150	359.40	332.35	323.30	319.00	314.40	310.65
1.3438	1 11/32	.940	4 7/8	1	10 1/2	1 11/32	362143	4	362343	311.90	1.3151 - 1.3470	366.00	338.95	329.90	325.60	320.80	317.35
1.3750	1 3/8	.962	4 7/8	1	10 1/2	1 3/8	362144	4	362344	319.40	1.3471 - 1.3780	373.45	346.45	337.35	333.05	328.45	324.70
1.4062	1 13/32	.984	4 7/8	1	10 1/2	1 13/32	362145	4	362345	327.00	1.3781 - 1.4090	380.85	353.80	344.75	340.50	335.90	332.10
1.4375	1 7/16	1.006	4 7/8	1	10 1/2	1 7/16	362146	4	362346	336.40	1.4091 - 1.4410	390.45	363.25	354.20	349.90	345.40	341.65
1.4688	1 15/32	1.025	4 7/8	1	10 1/2	1 15/32	362147	4	362347	346.40	1.4411 - 1.4720	400.40	373.30	364.25	359.95	355.20	351.60
1.5000	1 1/2	1.050	4 7/8	1	10 1/2	1 1/2	362148	4	362348	353.65	1.4721 - 1.5030	407.70	380.65	371.60	367.30	362.80	359.10

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CARBIDE TIPPED CORE DRILLS FOR STEEL

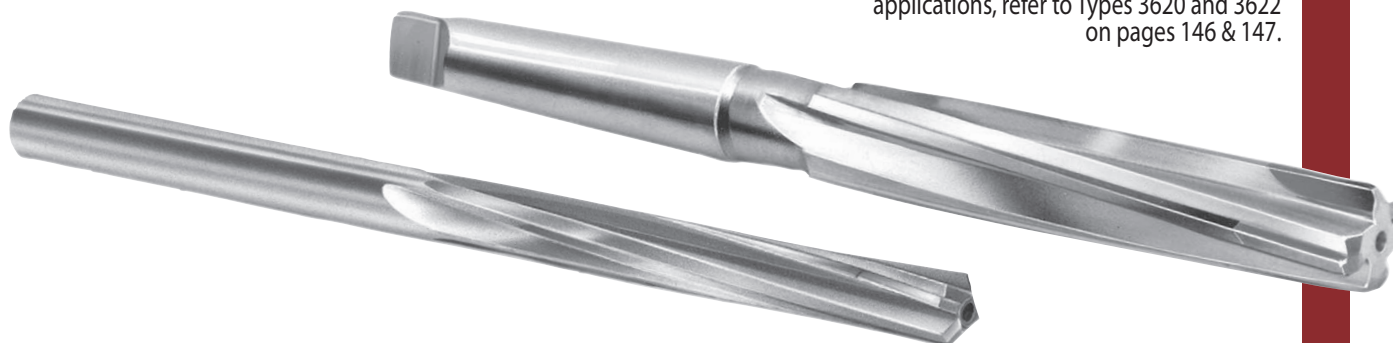
METRIC

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	\$180.50	8.815 - 9.601	\$221.20	\$194.30	\$185.25	\$180.80	\$176.30	\$172.55	\$167.25
10.0*	.3937	.284	3 5/8	5/8	7	13/32	3621100	1	3623100	180.50	9.602 - 10.389	221.20	194.30	185.25	180.80	176.30	172.55	167.25
11.0*	.4331	.306	3 7/8	3/4	7 1/4	7/16	3621110	1	3623110	180.50	10.390 - 11.201	221.20	194.30	185.25	180.80	176.30	172.55	167.25
-*	-	.328	4 1/8	3/4	7 1/2	15/32	3621119	1	3623119	-	11.202 - 11.989	221.20	194.30	185.25	180.80	176.30	172.55	167.25
12.0	.4724	.350	4 3/8	3/4	8 1/4	1/2	3621120	2	3623120	180.50	11.990 - 12.776	221.20	194.30	185.25	180.80	176.30	172.55	167.25
13.0	.5118	.372	4 3/8	3/4	8 1/4	17/32	3621130	2	3623130	181.10	12.777 - 13.564	221.85	194.75	185.65	181.30	176.85	172.90	167.85
14.0	.5512	.394	4 3/8	3/4	8 1/4	9/16	3621140	2	3623140	181.10	13.565 - 14.376	221.85	194.75	185.65	181.30	176.85	172.90	167.85
15.0	.5906	.416	4 3/8	3/4	8 1/4	19/32	3621150	2	3623150	189.35	14.377 - 15.164	230.05	203.05	194.10	189.55	185.20	181.30	176.15
-	-	.438	4 3/8	3/4	8 1/4	5/8	3621159	2	3623159	-	15.165 - 15.951	230.05	203.05	194.10	189.55	185.20	181.30	176.15
16.0	.6299	.459	4 3/8	3/4	8 1/4	21/32	3621160	2	3623160	191.25	15.952 - 16.739	231.95	204.90	195.90	191.45	187.05	183.20	178.00
17.0	.6693	.481	4 3/8	7/8	8 1/4	11/16	3621170	2	3623170	192.85	16.740 - 17.551	233.55	206.55	197.55	193.10	188.50	184.65	179.60
18.0	.7087	.503	4 3/8	7/8	8 1/4	23/32	3621180	2	3623180	192.85	17.552 - 18.339	233.55	206.55	197.55	193.10	188.50	184.65	179.60
19.0	.7480	.525	4 3/8	7/8	8 1/4	3/4	3621190	2	3623190	192.85	18.340 - 19.126	233.55	206.55	197.55	193.10	188.50	184.65	179.60
-	-	.547	4 3/8	7/8	8 1/4	25/32	3621199	2	3623199	-	19.127 - 19.914	237.25	210.25	201.35	196.75	192.25	188.50	183.35
20.0	.7874	.569	4 7/8	7/8	9 1/2	13/16	3621200	3	3623200	201.65	19.915 - 20.726	242.30	215.30	206.25	201.80	197.45	193.60	188.35
21.0	.8268	.591	4 7/8	7/8	9 1/2	27/32	3621210	3	3623210	211.50	20.727 - 21.514	252.20	225.20	216.15	211.70	207.20	203.45	198.30
22.0	.8661	.612	4 7/8	7/8	9 1/2	7/8	3621220	3	3623220	211.50	21.515 - 22.301	252.20	225.20	216.15	211.70	207.20	203.45	198.30
23.0	.9055	.634	4 7/8	7/8	9 1/2	29/32	3621230	3	3623230	212.70	22.302 - 23.089	253.40	226.50	217.30	213.00	208.40	204.65	199.45
-	-	.656	4 7/8	7/8	9 1/2	15/16	3621239	3	3623239	-	23.090 - 23.901	253.40	226.50	217.30	213.00	208.40	204.65	199.45
24.0	.9449	.678	4 7/8	7/8	9 1/2	31/32	3621240	3	3623240	219.85	23.902 - 24.689	260.60	233.65	224.65	220.05	215.45	211.80	206.65
25.0	.9843	.700	4 7/8	7/8	9 1/2	1	3621250	3	3623250	223.75	24.690 - 25.476	264.45	237.40	228.40	223.90	219.45	215.55	210.40
26.0	1.0236	.722	4 7/8	7/8	9 1/2	1 1/32	3621260	3	3623260	225.25	25.477 - 26.264	266.05	239.00	229.85	225.50	221.05	217.25	212.10
27.0	1.0630	.744	4 7/8	7/8	9 1/2	1 1/16	3621270	3	3623270	228.10	26.265 - 27.076	268.95	241.90	232.85	228.40	223.80	220.05	215.00
-	-	.766	4 7/8	1	10 1/2	1 3/32	3621279	4	3623279	-	27.077 - 27.864	303.60	276.55	267.60	263.05	258.60	254.70	249.65
28.0	1.1024	.787	4 7/8	1	10 1/2	1 1/8	3621280	4	3623280	274.00	27.865 - 28.651	314.70	287.75	278.70	274.35	269.65	266.05	260.75
29.0	1.1417	.809	4 7/8	1	10 1/2	1 5/32	3621290	4	3623290	285.45	28.652 - 29.439	326.05	299.15	290.05	285.65	281.15	277.40	272.20
30.0	1.1811	.831	4 7/8	1	10 1/2	1 3/16	3621300	4	3623300	293.25	29.440 - 30.239	333.95	307.00	298.00	293.50	288.90	285.15	280.00
31.0	1.2205	.853	4 7/8	1	10 1/2	1 7/32	3621310	4	3623310	294.25	30.240 - 31.039	334.90	308.05	298.85	294.50	289.90	286.30	281.00
-	-	.875	4 7/8	1	10 1/2	1 1/4	3621319	4	3623319	-	31.040 - 31.826	335.95	309.00	299.95	295.50	290.95	287.05	281.90
32.0	1.2598	.897	4 7/8	1	10 1/2	1 9/32	3621320	4	3623320	314.95	31.827 - 32.614	355.80	328.85	319.65	315.35	310.65	307.00	301.75
33.0	1.2992	.919	4 7/8	1	10 1/2	1 5/16	3621330	4	3623330	323.30	32.615 - 33.401	364.00	337.05	327.90	323.55	319.00	315.35	310.05
34.0	1.3386	.940	4 7/8	1	10 1/2	1 11/32	3621340	4	3623340	329.90	33.402 - 34.214	370.45	343.55	334.50	330.15	325.60	321.80	316.55
35.0	1.3780	.962	4 7/8	1	10 1/2	1 3/8	3621350	4	3623350	337.35	34.215 - 35.001	378.10	351.05	342.10	337.55	333.05	329.20	324.15
-	-	.984	4 7/8	1	10 1/2	1 13/32	3621359	4	3623359	-	35.002 - 35.789	385.40	358.40	349.45	344.90	340.50	336.65	331.45
36.0	1.4173	1.006	4 7/8	1	10 1/2	1 7/16	3621360	4	3623360	354.20	35.790 - 36.601	395.00	368.00	358.90	354.50	349.90	346.30	341.00
37.0	1.4567	1.025	4 7/8	1	10 1/2	1 15/32	3621370	4	3623370	364.25	36.602 - 37.389	404.80	377.95	368.75	364.45	359.95	356.20	351.00
38.0	1.4961	1.050	4 7/8	1	10 1/2	1 1/2	3621380	4	3623380	371.60	37.390 - 38.176	412.20	385.25	376.25	371.75	367.30	363.55	358.25

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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	FRACTION	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	\$44.85	3641618	\$52.05	4 1/4	3600618	\$44.40	3601618	\$51.45	-	-	-	-	-
	.3125	5/16	2 13/16	3640620	47.70	3641620	55.40	4 1/2	3600620	48.00	3601620	55.80	4 1/2	3670620	\$66.35		
	.3438	11/32	3	3640622	55.50	3641622	64.25	4 3/4	3600622	50.95	3601622	59.35	4 3/4	3670622	70.70		
	.3750	3/8	3 1/8	3640624	56.85	3641624	66.00	5	3600624	54.20	3601624	63.10	5	3670624	75.95		
	.4062	13/32	3 5/16	3640626	67.40	3641626	78.50	5 1/4	3600626	58.95	3601626	68.60	5 1/4	3670626	89.05		
	.4375	7/16	3 7/16	3640628	72.05	3641628	79.95	5 1/2	3600628	64.15	3601628	74.50	5 1/2	3670628	103.20		
	.4688	15/32	3 3/8	3640630	102.55	3641630	119.25	5 3/4	3600630	72.20	3601630	83.55	5 3/4	3670630	113.35		
	.5000	1/2	3 3/4	3640632	98.10	3641632	114.15	6	3600632	88.75	3601632	93.50	6	3670632	133.00		
3/8	.4062	13/32	3 5/16	3640726	67.40	3641726	78.50	5 1/4	3600726	58.95	3601726	68.60	-	-	-	-	-
	.4375	7/16	3 7/16	3640728	72.05	3641728	79.95	5 1/2	3600728	64.15	3601728	74.50	5 1/2	3670728	103.20		
	.4688	15/32	3 3/8	3640730	102.55	3641730	119.25	5 3/4	3600730	72.20	3601730	83.55	5 3/4	3670730	113.35		
	.5000	1/2	3 3/4	3640732	98.10	3641732	114.15	6	3600732	88.75	3601732	93.50	6	3670732	133.00		
	.5312	17/32	3 7/8	3640734	122.35	3641734	137.80	6 5/8	3600734	115.60	3601734	134.30	6	3670734	152.55		
	.5625	9/16	4	3640736	122.35	3641736	137.80	6 3/4	3600736	116.65	3601736	135.45	6	3670736	157.80		
	.5938	19/32	4 1/8	3640738	140.35	3641738	158.20	7 1/8	3600738	125.30	3601738	145.35	7	3670738	166.95		
	.6250	5/8	4 1/4	3640740	140.35	3641740	158.20	7 1/8	3600740	141.95	3601740	164.55	7	3670740	172.05		
	.6562	21/32	4 1/2	3640742	168.80	3641742	190.30	7 1/8	3600742	144.25	3601742	167.40	7 1/2	3670742	184.10		
	.6875	11/16	4 5/8	3640744	173.10	3641744	195.40	7 5/8	3600744	147.10	3601744	170.60	7 1/2	3670744	189.05		
	.7188	23/32	4 3/4	3640746	196.40	3641746	227.95	7 7/8	3600746	173.60	3601746	193.10	8	3670746	198.10		
	.7500	3/4	5	3640748	196.85	3641748	221.65	8	3600748	177.20	3601748	197.00	8	3670748	203.40		
1/2	.5312	17/32	3 7/8	3640834	122.35	3641834	137.80	6 5/8	3600834	115.60	3601834	134.30	-	-	-	-	-
	.5625	9/16	4	3640836	122.35	3641836	137.80	6 3/4	3600836	116.65	3601836	135.45	6	3670836	157.80		
	.5938	19/32	4 1/8	3640838	140.35	3641838	158.20	7 1/8	3600838	125.30	3601838	145.35	7	3670838	166.95		
	.6250	5/8	4 1/4	3640840	140.35	3641840	158.20	7 1/8	3600840	141.95	3601840	164.55	7	3670840	172.05		
	.6562	21/32	4 1/2	3640842	168.80	3641842	190.30	7 1/8	3600842	144.25	3601842	167.40	7 1/2	3670842	184.10		
	.6875	11/16	4 5/8	3640844	173.10	3641844	195.40	7 5/8	3600844	147.10	3601844	170.60	7 1/2	3670844	189.05		
	.7188	23/32	4 3/4	3640846	196.40	3641846	227.95	7 7/8	3600846	173.60	3601846	193.10	8	3670846	198.10		
	.7500	3/4	5	3640848	196.85	3641848	221.65	8	3600848	177.20	3601848	197.00	8	3670848	203.40		
	.8125	13/16	5 1/4	3640852	243.20	3641852	274.55	-	-	-	-	-	8	3670852	364.75		
	.8750	7/8	5 1/2	3640856	266.95	3641856	300.95	-	-	-	-	-	8	3670856	372.40		
	.9375	15/16	5 3/4	3640860	286.60	3641860	323.25	-	-	-	-	-	8	3670860	414.95		
	1.0000	1	6	3640864	302.75	3641864	341.65	-	-	-	-	-	8	3670864	440.25		
3/4	.8125	13/16	5 1/4	3640952	243.20	3641952	274.55	-	-	-	-	-	8	3670952	364.75		
	.8750	7/8	5 1/2	3640956	266.95	3641956	300.95	-	-	-	-	-	8	3670956	372.40		
	.9375	15/16	5 3/4	3640960	286.60	3641960	323.25	-	-	-	-	-	8	3670960	414.95		
	1.0000	1	6	3640964	302.75	3641964	341.65	-	-	-	-	-	8	3670964	440.25		
	1.0625	1 1/16	6 1/4	3640968	379.40	3641968	427.80	-	-	-	-	-	-	-	-		
	1.1250	1 1/8	6 3/8	3640972	421.25	3641972	474.90	-	-	-	-	-	-	-	-		
	1.1875	1 3/16	6 5/8	3640976	514.00	3641976	576.25	-	-	-	-	-	-	-	-		
	1.2500	1 1/4	6 3/4	3640980	514.00	3641980	576.25	-	-	-	-	-	-	-	-		

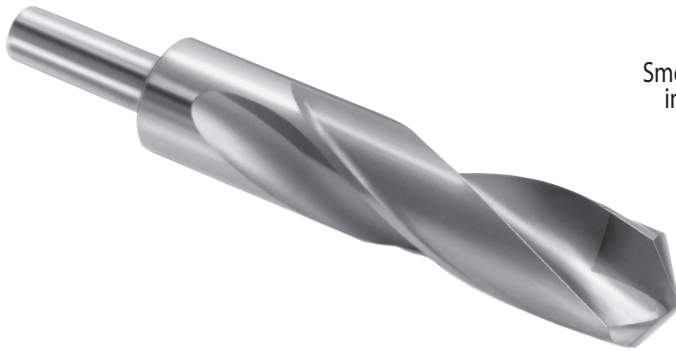
DRILL TOLERANCES & STANDARDS

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	\$74.45	361832	\$78.20
.5312	17/32	3 1/8	6	361634	108.85	361834	114.40
.5625	9/16	3 1/8	6	361636	112.85	361836	118.50
.5938	19/32	3 1/8	6	361638	117.35	361838	123.20
.6250	5/8	3 1/8	6	361640	130.40	361840	136.85
.6562	21/32	3 1/8	6	361642	141.40	361842	148.40
.6875	11/16	3 1/8	6	361644	146.85	361844	154.35
.7188	23/32	3 1/8	6	361646	152.40	361846	160.00
.7500	3/4	3 1/8	6	361648	159.65	361848	167.80
.7812	25/32	3 1/8	6	361650	176.05	361850	184.85
.8125	13/16	3 1/8	6	361652	176.50	361852	185.35
.8438	27/32	3 1/8	6	361654	176.50	361854	185.35
.8750	7/8	3 1/8	6	361656	183.60	361856	192.80

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	\$188.00	361858	\$197.45
.9375	15/16	3 1/8	6	361660	189.95	361860	199.35
.9688	31/32	3 1/8	6	361662	196.40	361862	206.10
1.0000	1	3 1/8	6	361664	200.50	361864	210.65
1.0312	1 1/32	3 1/8	6	361666	193.55	361866	203.30
1.0625	1 1/16	3 1/8	6	361668	209.95	361868	220.35
1.0938	1 3/32	3 1/8	6	361670	214.95	361870	225.70
1.1250	1 1/8	3 1/8	6	361672	219.15	361872	230.00
1.1562	1 5/32	3 1/8	6	361674	265.90	361874	279.30
1.1875	1 3/16	3 1/8	6	361676	270.75	361876	284.35
1.2188	1 7/32	3 1/8	6	361678	284.30	361878	298.60
1.2500	1 1/4	3 1/8	6	361680	259.55	361880	272.60
-	-	-	-	-	-	-	-

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	\$105.30
.3750	3/8	1 1/8	5	367724	367824	367924	122.90
.5000	1/2	1 1/2	6	367732	367832	367932	165.25
.6250	5/8	1 3/8	7	367740	367840	367940	239.35
.7500	3/4	1 7/8	8	367748	367848	367948	277.70
1.0000	1	2 1/4	8	367764	367864	367964	368.15

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	\$100.05
.3750	3/8	1 1/8	3 3/8	364724	364824	364924	116.75
.5000	1/2	1 1/2	3 3/4	364732	364832	364932	157.10
.6250	5/8	1 3/8	4 1/4	364740	364840	364940	227.45
.7500	3/4	1 7/8	5	364748	364848	364948	263.85
1.0000	1	2 1/4	6	364764	364864	364964	349.65

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.



AR

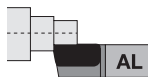
0° SIDE CUTTING EDGE ANGLE

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	\$16.00	393AR04	\$11.70	1/4	1/4	2	12
AR-5	398AR05	14.10	393AR05	12.45	5/16	5/16	2 1/4	12
AR-6	398AR06	14.40	393AR06	12.65	3/8	3/8	2 1/2	12
AR-7	398AR07	15.50	393AR07	13.75	7/16	7/16	3	12
AR-8	398AR08	13.30	393AR08	13.30	1/2	1/2	3 1/2	12
AR-10	398AR10	19.75	393AR10	18.25	5/8	5/8	4	12
AR-12	398AR12	25.35	393AR12	22.70	3/4	3/4	4 1/2	12
AR-16	398AR16	46.45	393AR16	45.30	1	1	7	6
AR-20	398AR20	CALL	393AR20	CALL	1 1/4	1 1/4	8	1
AR-44	398AR44	CALL	393AR44	CALL	1/2	1	7	12



For turning to a square shoulder



TYPE 3930 - GOLD SHANK 370 / PREMIUM C5-C6 CARBIDE GRADE

Carbide tip brazed to steel bodies. For machining most steels.



AL

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	\$16.00	393AL04	\$11.70	1/4	1/4	2	12
AL-5	398AL05	14.10	393AL05	12.45	5/16	5/16	2 1/4	12
AL-6	398AL06	14.40	393AL06	12.65	3/8	3/8	2 1/2	12
AL-7	398AL07	15.50	393AL07	13.75	7/16	7/16	3	12
AL-8	398AL08	13.30	393AL08	13.30	1/2	1/2	3 1/2	12
AL-10	398AL10	18.70	393AL10	18.25	5/8	5/8	4	12
AL-12	398AL12	24.15	393AL12	23.95	3/4	3/4	4 1/2	12
AL-16	398AL16	47.10	393AL16	47.10	1	1	7	6
AL-20	-	-	393AL20	CALL	1 1/4	1 1/4	8	1
AL-44	398AL44	CALL	393AL44	CALL	1/2	1	7	12

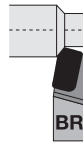


BR

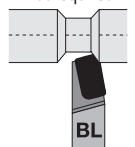
15° SIDE CUTTING EDGE ANGLE

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	\$16.00	393BR04	\$11.70	1/4	1/4	2	12
BR-5	398BR05	14.10	393BR05	12.45	5/16	5/16	2 1/4	12
BR-6	398BR06	14.40	393BR06	12.65	3/8	3/8	2 1/2	12
BR-7	398BR07	15.50	393BR07	13.75	7/16	7/16	3	12
BR-8	398BR08	13.30	393BR08	13.30	1/2	1/2	3 1/2	12
BR-10	398BR10	19.75	393BR10	18.25	5/8	5/8	4	12
BR-12	398BR12	25.35	393BR12	22.70	3/4	3/4	4 1/2	12
BR-16	398BR16	46.45	393BR16	45.30	1	1	7	6
BR-20	398BR20	CALL	393BR20	CALL	1 1/4	1 1/4	8	1
BR-44	398BR44	CALL	393BR44	CALL	1/2	1	7	12



For turning where square shoulder is not required



BL

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	\$16.00	393BL04	\$11.70	1/4	1/4	2	12
BL-5	398BL05	14.10	393BL05	12.45	5/16	5/16	2 1/4	12
BL-6	398BL06	14.40	393BL06	12.65	3/8	3/8	2 1/2	12
BL-7	398BL07	15.50	393BL07	13.75	7/16	7/16	3	12
BL-8	398BL08	13.30	393BL08	13.30	1/2	1/2	3 1/2	12
BL-10	398BL10	18.70	393BL10	18.25	5/8	5/8	4	12
BL-12	398BL12	24.15	393BL12	23.95	3/4	3/4	4 1/2	12
BL-16	398BL16	47.10	393BL16	47.10	1	1	7	6
BL-20	398BL20	CALL	393BL20	CALL	1 1/4	1 1/4	8	1
BL-44	398BL44	CALL	393BL44	CALL	1/2	1	7	12



C

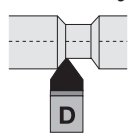
0° SQUARE NOSE

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	\$10.55	393C04	\$10.55	1/4	1/4	2	12
C-5	398C05	11.65	393C05	11.20	5/16	5/16	2 1/4	12
C-6	398C06	15.05	393C06	12.45	3/8	3/8	2 1/2	12
C-7	398C07	11.50	393C07	15.85	7/16	7/16	3	12
C-8	398C08	18.50	393C08	17.10	1/2	1/2	3 1/2	12
C-10	398C10	20.80	393C10	22.70	5/8	5/8	4	12
C-12	398C12	28.70	393C12	32.55	3/4	3/4	4 1/2	12
C-16	398C16	59.55	393C16	57.20	1	1	7	6
C-20	398C20	CALL	393C20	CALL	1 1/4	1 1/4	8	1
C-44	398C44	CALL	393C44	CALL	1/2	1	7	12



For undercutting and chamfering



For chamfering



D

40° SIDE CUTTING EDGE ANGLE

80° pointed nose.

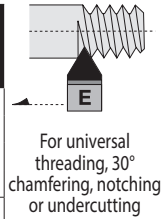
TOOL TYPE & SIZE NO.	883 / PREMIUM C2*		370 / PREMIUM C5-C6*		SHANK DIMENSION			STD. PKG. QTY.
	EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	W	H	L	
D-4	398D04	\$9.85	393D04	\$9.85	1/4	1/4	2	12
D-5	398D05	11.35	393D05	11.70	5/16	5/16	2 1/4	12
D-6	398D06	11.65	393D06	12.50	3/8	3/8	2 1/2	12
D-7	398D07	15.85	393D07	19.30	7/16	7/16	3	12
D-8	398D08	15.30	393D08	16.15	1/2	1/2	3 1/2	12
D-10	398D10	21.35	393D10	23.65	5/8	5/8	4	12
D-12	398D12	30.50	393D12	26.80	3/4	3/4	4 1/2	12
D-16	398D16	45.35	393D16	46.80	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.

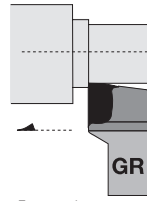
TOOL TYPE & SIZE NO.	883 / PREMIUM C2*		370 / PREMIUM C5-C6*		SHANK DIMENSION			STD. PKG. QTY.
	EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	W	H	L	
E-4	398E04	\$9.85	393E04	\$9.85	1/4	1/4	2	12
E-5	398E05	10.70	393E05	10.70	5/16	5/16	2 1/4	12
E-6	398E06	11.15	393E06	10.85	3/8	3/8	2 1/2	12
E-7	398E07	17.25	393E07	20.70	7/16	7/16	3	12
E-8	398E08	25.55	393E08	13.70	1/2	1/2	3 1/2	12
E-10	398E10	21.20	393E10	19.20	5/8	5/8	4	12
E-12	398E12	26.35	393E12	26.65	3/4	3/4	4 1/2	12
E-16	398E16	46.15	393E16	44.40	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.

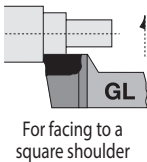


For turning to a square shoulder



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	\$18.50	393GR08	\$17.55	1/2	1/2	3 1/2	12
GR-10	398GR10	27.75	393GR10	25.25	5/8	5/8	4	12
GR-12	398GR12	35.60	393GR12	31.50	3/4	3/4	4 1/2	6
GR-16	398GR16	75.05	393GR16	75.55	1	1	7	4
GR-20	398GR20	CALL	393GR20	CALL	1 1/4	1 1/4	8	1
GR-44	398GR44	CALL	393GR44	CALL	1/2	1	6	6



For facing 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	
GL-8	398GL08	\$18.35	393GL08	\$18.05	1/2	1/2	3 1/2	12
GL-10	398GL10	26.55	393GL10	25.25	5/8	5/8	4	12
GL-12	398GL12	34.35	393GL12	33.85	3/4	3/4	4 1/2	6
GL-16	398GL16	72.80	393GL16	75.55	1	1	7	4
GL-20	398GL20	CALL	393GL20	CALL	1 1/4	1 1/4	8	1
GL-44	398GL44	CALL	393GL44	CALL	1/2	1	6	6

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.

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
CT-111	1/8	398CT01	\$23.75	393CT01	\$24.70	1/2	1	5
CT-122	3/16	398CT02	24.45	393CT02	25.20	1/2	1	5
CT-121	1/4	398CT03	25.25	393CT03	26.15	1/2	1	5
CT-120	5/16	398CT04	25.20	393CT04	26.15	1/2	1	5
CT-130	3/8	398CT13	30.50	393CT13	32.45	5/8	1 1/4	5
CT-140	3/8	398CT14	33.80	393CT14	35.00	3/4	1 1/2	6

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	\$23.75	393CL01	\$24.70	1/2	1	5
CTL-122	3/16	398CL02	24.45	393CL02	25.20	1/2	1	5
CTL-121	1/4	398CL03	25.25	393CL03	26.15	1/2	1	5
CTL-120	5/16	398CL04	25.20	393CL04	26.15	1/2	1	5
CTL-130	3/8	398CL13	30.50	393CL13	32.45	5/8	1 1/4	5
CTL-140	3/8	398CL14	33.80	393CL14	35.00	3/4	1 1/2	6

Phone 941-739-2726 • Fax 941-739-2827 • www.lexingtoncutter.com • LEXINGTON CUTTER, INC.

*Some sizes not available in premium grade carbide. Prices subject to change.

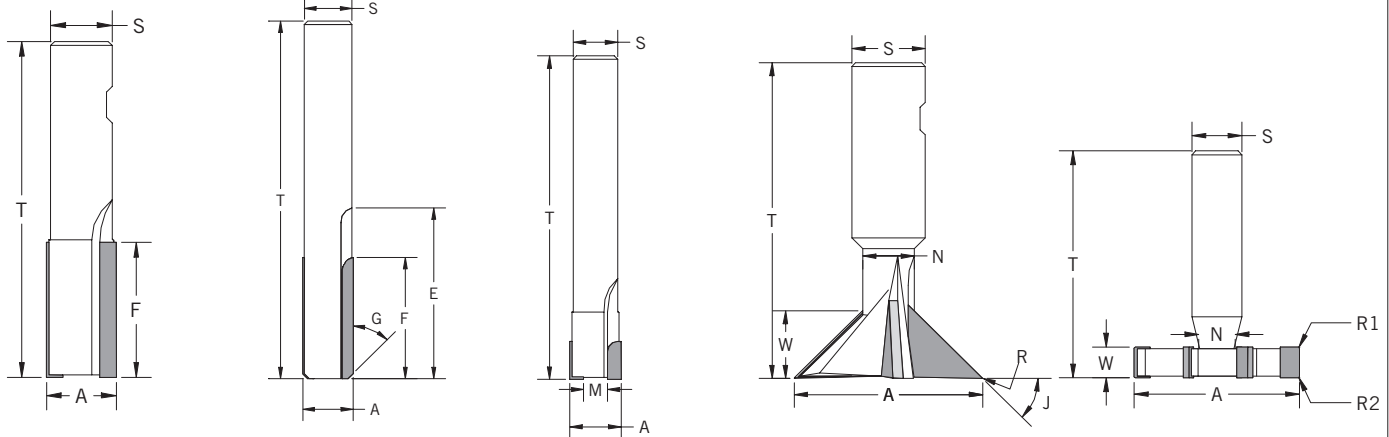
Made in U.S.A.

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.

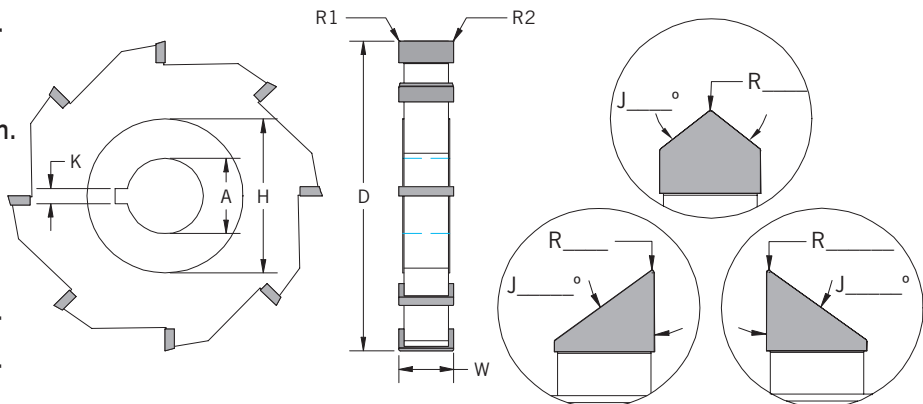
N= _____ # of Teeth

H= _____ Hub Diameter

K= _____ Keyway Size

R1= _____ Radius/Chamfer

R2= _____ Radius/Chamfer



☐ Straight Tooth

☐ Straight Stagger

☐ Herringbone Stagger

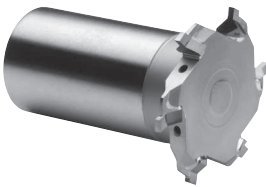
☐ MILLING CUTTER

☐ SLITTING SAW

☐ ANGLE CUTTER

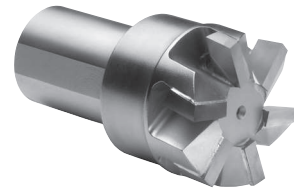
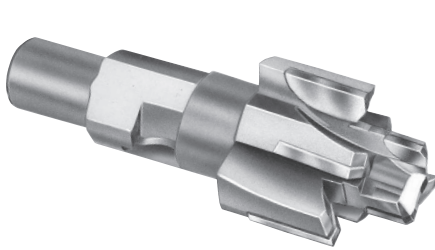
(Fill in "J" & "R")

DESIGN AND MANUFACTURING OF SPECIAL CUTTING TOOLS



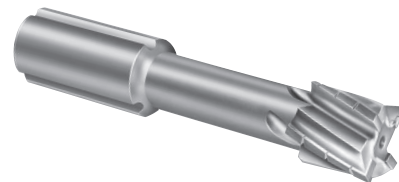
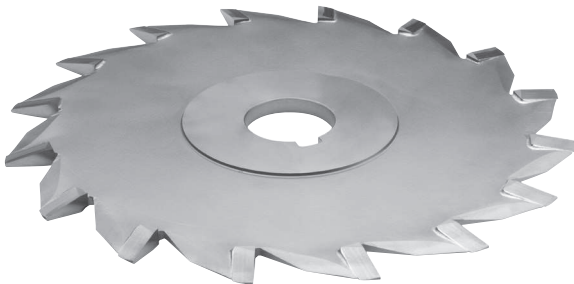
QUOTE FROM PRINT

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			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			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			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

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.

TECHNICAL DATA

Hardness (Vickers):	2300
Max. Service Temperature:	525° C (975° F)
Friction Coefficient:	.50
Thickness	2-4 microns
Surface Roughness (R _a μM):	.20

TiCN - TITANIUM CARBONITRIDE

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.

TECHNICAL DATA

Hardness (Vickers):	3000
Max. Service Temperature:	400° C (750° F)
Friction Coefficient:	.40
Thickness	2-4 microns
Surface Roughness (R _a μM):	.17

AlTiN - ALUM. TITANIUM NITRIDE

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.

TECHNICAL DATA

Hardness (Vickers):	3600
Max. Service Temperature:	750° C (1380° F)
Friction Coefficient:	.60
Thickness	2-4 microns
Surface Roughness (R _a μM):	.30

ZrN - ZIRCONIUM NITRIDE

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

Hardness (Vickers):	2500
Max. Service Temperature:	600° C (1110° F)
Friction Coefficient:	.50
Thickness	2-4 microns
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	DRY
NON-FERROUS - SOFT	ZrN	TiCN/ZrN	ZrN	ZrN	ZrN	ZrN
NON-FERROUS - HARD	ZrN	TiCN/ZrN	ZrN	ZrN	ZrN	ZrN
CAST IRON	AlTiN	TiCN/AlTiN	AlTiN	AlTiN	AlTiN	AlTiN
LOW CARBON STEELS	AlTiN	AlTiN	AlTiN	AlTiN	AlTiN	AlTiN
MEDIUM STRENGTH STEELS	AlTiN	AlTiN	AlTiN	AlTiN	AlTiN	AlTiN
HIGH STRENGTH STEELS	AlTiN	AlTiN	AlTiN	AlTiN	AlTiN	AlTiN
HIGH TEMPERATURE ALLOYS	AlTiN	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."

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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

CONTACT US:

WWW.LEXINGTONCUTTER.COM

SALES@LEXINGTONCUTTER.COM

PHONE: 941.739.2726 • 800.882.2627

FAX: 941.739.2827 • 800.882.3637

2951 63RD AVENUE EAST

BRADENTON, FLORIDA 34203

