

SPECIALTY END MILLS



CONICAL™

AUTOMOTIVE TAPERS

AMERICAN
MADE



GLOBALLY
RENOWNED

SPECIALTY END MILLS

FOR ROUGHING AND REAMING OF BALL JOINTS & TIE ROD ENDS



CONICAL™
CUTTING TOOLS

www.conicalendmills.com | www.globalcuttingtools.com



CONICAL™
AUTOMOTIVE TAPERS

ROUGHING & REAMING

BALL JOINTS AND TIE ROD ENDS

FEATURES & BENEFITS

We designed our Conical Automotive Tapers with a left hand spiral and right hand cut, to get the most out of the high speed steel and create a superior surface finish. The addition of a cylindric land design creates a smooth cutting tool that can handle the needs of the automotive industry. We pride ourselves on being an expert resource, to all our partners and industries, with results that can be reproduced without exception.

General Inquiries:

3890 Buchanann Ave SW
Grand Rapids, MI 49548

P: (616) 531-8500

F: (616) 531-7742

E: info@conicaltool.com

Sales & Distribution:

T: (888) 531-8500

E: sales@conicaltool.com

Custom Tooling:

E: quotes@conicaltool.com

W: conicalendmills.com/custom-tool-ordering



CONICAL™
CUTTING TOOLS

SERIES: ATX

For milling of ball joints and tie rod internal diameter holes; ferrous materials.



Four flute design to balance and improve tool engagement in hardened materials



Premium high speed steel improves rigidity, hardness and wear resistance for milling of easy to machine materials

Cylindrical land for excellent surface finishes

No end cut to increase tool stability and edge strength



Uncoated for versatility. More than 16 available coatings can be added to increase tool life for your specific application and material

Variable Core Design maximizes chip evacuation and provides increased rigidity when the cutter is fully engaged



TIP & END



SHANK & LENGTH



FLUTE CONFIGURATION



MATERIAL



COATING



RESULTS

Designed for reaming ball joints and tie rod ends, the left hand spiral and right hand cut end mills, offer a slow spiral to avoid grabbing the material, while milling the intended area. At 1-1/2 Taper Per Foot, these tapered end mills are used on "through holes" or "predrilled holes" for heavy

construction vehicles, recreational vehicles (ATVs), buses, snowmobiles and golf carts. The simple fact is our end mills are astonishingly effective and leave no need for us to make claims when the results are irrefutable.

Series ATX: Premium High Speed Steel, 4 Flute, 12° Left Hand Slow Helix

Subseries: ATX

Configuration: 1.5" Taper Per Foot, Varying Diameters, Regular & Long Length, 12° Left Hand Spiral, Right Hand Cut; Cylindrical Land; No End Cut

AUTOMOTIVE TAPERS

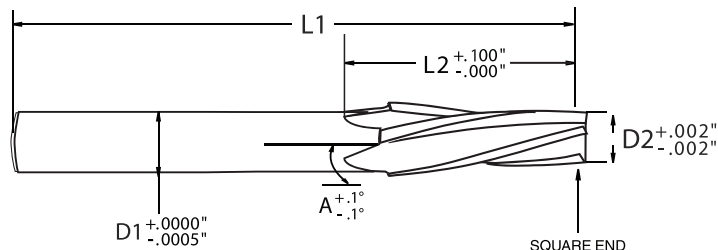
CONICAL™

SERIES ATX - HIGH SPEED STEEL, 4 FLUTE, 12° LEFT HAND SLOW HELIX

SMOOTH CUTTING

A cylindric land design creates a smooth cutting tool that can handle the needs of the automotive industry. They offer a slow spiral to avoid grabbing the material. Used for heavy construction vehicles, recreational vehicles (ATVs), buses, snowmobiles and golf carts.

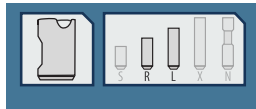
- Tapered Neck provides increased rigidity and strength
- Use for milling or sinking dies or mold cavities
- Increase shank diameter for better strength
- Special flute design provides faster cutting



TIP & END



SHANK & LENGTH



FLUTE CONFIGURATION



MATERIAL



COATING



SERIES ATX - 1.5" TAPER/FT, REGULAR & LONG LENGTHS



ANGLE PER SIDE (A)	TIP DIAMETER (D2)		LARGE DIAMETER (D1)		SHANK DIAMETER (D1)		FLUTE LENGTH (L2)		OVERALL LENGTH (L1)		# OF FLUTES	SQUARE END	
												PART #	EDP #
3° 34' 35" 1.5" Taper Per Foot	3/8	0.375	0.625	1/2	0.500	2	2.000	4 3/8	4.375	4	4	AT-608	4Z01S
			0.875	3/4	0.750	4	4.000	6 5/8	6.625			AT-616	4Z02S
	1/2	0.500	0.750	1/2	0.500	2	2.000	4 3/8	4.375			AT-808	4Z03S
			1.000	3/4	0.750	4	4.000	6 5/8	6.625			AT-816	4Z04S
	5/8	0.625	0.875	3/4	0.750	2	2.000	4 5/8	4.625			AT-1008	4Z05S
			1.125	1	1.000	4	4.000	6 7/8	6.875			AT-1016	4Z06S
	3/4	0.750	1.000	3/4	0.750	2	2.000	4 5/8	4.625			AT-1208	4Z07S
			1.250	1	1.000	4	4.000	6 7/8	6.875			AT-1216	4Z08S
	7/8	0.875	1.125	1	1.000	2	2.000	4 7/8	4.875			AT-1408	4Z09S
			1.375	1 1/4	1.250	4	4.000	6 7/8	6.875			AT-1416	4Z10S
	1	1.000	1.250	1	1.000	2	2.000	4 7/8	4.875			AT-1608	4Z11S
			1.500	1 1/4	1.250	4	4.000	6 7/8	6.875			AT-1616	4Z12S

⊙ indicates center hole in tip

70 YEARS OF INNOVATION



DRIVING PROSPERITY

Conical Automotive tapers do not have an end cut, or specific tip design, which results in added stability and edge strength. Finding ways to make something stronger, faster and more efficient, is one of our favorite past times. A four flute design improves balance and tool engagement in hardened materials. Finally, a cylindrical land ties everything together for excellent surface finishes.

Conical Automotive Tapers enhance the normal roughing and reaming processes of ball joints and tie rod ends, launching you across the finish line before the competition. We invite you to join us in our effort to drive prosperity in the market and look forward to accelerating your progress today.

ACCELERATING PROGRESS

Conical Automotive Tapers are used to make parts that drive progress throughout the world, which includes everything from public transportation, to recreational vehicles and agriculture. We are proud to put our name on something that means so much to so many people. And we will always strive to make innovative contributions to every industry we are aligned with, especially the automotive industry, which continues to change at an unprecedented rate.

Global Cutting Tools
Conical Tool Company

3890 Buchanan Ave SW
Grand Rapids, MI 49548

T: 888.531.8500 | P: 616.531.8500
F: 616.531.7742 | E: info@conicaltool.com

W: www.conicalendmills.com
W: www.globalcuttingtools.com



Global Cutting Tools are distributed by:

OVER 7,000
DISTRIBUTORS WORLDWIDE



Made in the U.S.A.