



A BRAND® AT-1

Advanced Performance One Pass Thread Mill

The World's Only Single Pass Thread Mill!

PRIMARY TARGETS

- Thread Milling Customers Looking to **Reduce Cycle Time by 50%!**

SOLUTIONS

- A Single Pass Option to Cut Cycle Time!
- Working in Tandem with the Trifecta (The AT-1 along with OSG's thread milling software Thread Pro and the DCT a Diameter Correction Tool for easy and consistent setups)

Scan or
Click to
Research
it Online!



WHAT OUR CUSTOMERS SEE

- **Three Passes to a Single Pass!** What a Difference!
- Setup Time **Reduced by 50%!**

HOW DOES IT WORK?

Unique Helix Geometry

- Eliminates Cutting Deflection for Straight Threads

Variable Geometry

- Reduces Chatter and Increases Tool Life

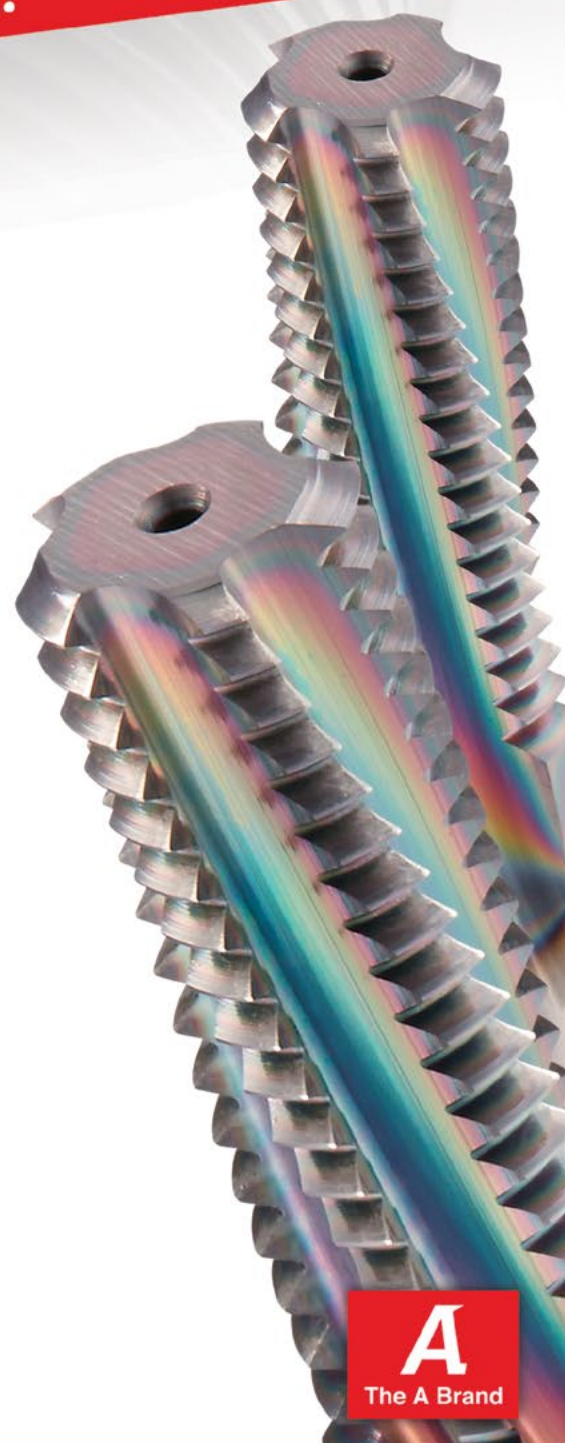
EgiAs Coating

- For Exceptional Wear Resistance

OSG's Trifecta

- AT-1 + Thread Pro + DCT = Low Setup Times

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Watch it
in Action!



A Brand® AT-1

Advanced Performance One Pass Thread Mill

A Brand® AT-1

OSG's newest thread mill, the A Brand® AT-1, is designed with a left-hand helix and starts cutting from the shank side, reducing deflection, preventing bending, thus allowing for 1-pass cutting and reducing overall cutting time. Along with OSG's patented EgiAs coating, it also has unequal spacing/variable lead flute which reduces vibration for better thread quality.



Features & Benefits

- **OSG's EgiAs coating** for exceptional wear resistance and longer tool life.
- **Right-hand cut and left-hand helix geometry** to prevent bending/deflection.
- **Unequal spacing/variable lead flute** for reduced vibration.

List Numbers

16620 - A Brand® AT-1 (Inch)
 16625 - A Brand® AT-1 (Metric)
 16630 - A Brand® AT-1 (NPT)
 16631 - A Brand® AT-1 (NPTF)

Size Range

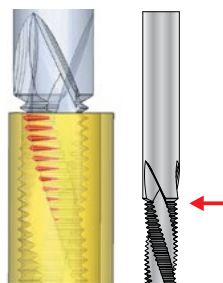
1/4"-1"
 M6-M24
 1/16"-2"
 1/16"-2"

1-Pass Cutting

Left Hand Helix Reduces Deflection for 1-Pass Cutting

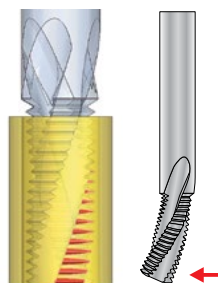
The AT-1 is designed with a left hand helix and starts cutting from the shank side, reducing deflection, preventing bending, thus allowing for 1-pass cutting and reducing overall cutting time.

AT-1 Left Hand Helix



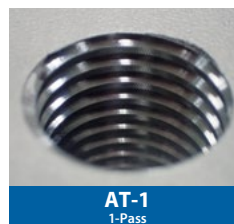
Starts cutting from the shank side
Result: Reduced deflection
 Note: Climb milling recommended

Conventional Right Hand Helix

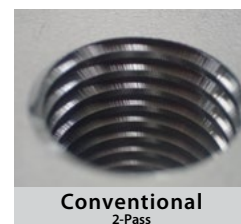


Starts cutting from the tip
Result: Big deflection

Tool	AT-1 (List 16620)	Conventional
Size	Ø19.7mm • 54mm Length of Cut	
Thread Size	M24 x 3	
Work Material	304 Stainless Steel	
Tapping Depth	45mm (full depth)	
Cutting Speed	131 SFM (646 RPM)	
Feed	5.9 IPM (0.0016 IPT)	
Number of Passes	1	2
Coolant	Water-Soluble	
Machine	Horizontal Machining Center	



AT-1
1-Pass



Conventional
2-Pass



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