

**NORTON**

SAINT-GOBAIN

**WINTER**Transforming  
surfaces  
...and beyond

# FAVS CUP WHEELS

## ACHIEVE PRECISE BAR DIMENSIONS

Norton Winter FAVS Cup wheels allow for high stock removal and long wheel life while maintaining a precise bar dimension of Aluminum-Titanium Carbide (AlTiC) for Hard Disk Drives. With a patent-pending design these free-cutting wheels deliver repeatable and accurate bar dimensions and superior finish without chipping or burrs. These benefits reduce the need for subsequent lapping and polishing processes, increasing throughput and reducing cost of ownership.



### KEY MARKET SEGMENTS

HARD DISK DRIVES INDUSTRIES

### KEY MATERIAL SEGMENTS

AlTiC | EPOXY MOLDING COMPOUNDS | DIFFICULT TO GRIND MATERIALS

[www.nortonabrasives.com](http://www.nortonabrasives.com)

The Saint-Gobain logo features a stylized, colorful graphic of a mountain range or a series of peaks in blue, green, and red, positioned above the company name "SAINT-GOBAIN" in a bold, sans-serif font.

**NORTON**

SAINT-GOBAIN®

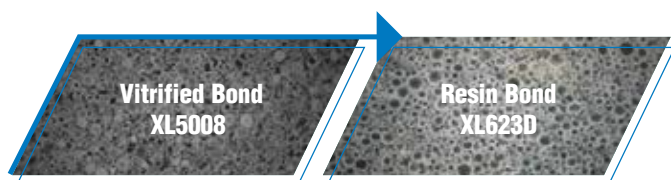
**WINTER****FAVS  
CUP WHEELS**

## FEATURES & BENEFITS

- Maximizes stock removal for optimized productivity
- Offers precise and repeatable bar dimensions
- Produces a fine surface finish without edge chipping or burrs
- The Hybrid wheel combines the long life of vitrified bond wheel with the superior finish of resin bond

### Aggressive on Material Removal

Norton Winter FAVS cup wheels are available in vitrified, resin or hybrid bonds. The Hybrid wheel features alternating vitrified and resin bonded segments offering the benefits of both bond types in a single wheel - aggressive on material removal while soft on finish.



### Specifications

**COMMON WHEEL SIZES:** Varies per OEM

**MESH SIZE:** #1000 - #4000

**BONDS:** Vitrified, Resin, Hybrid

**CUSTOMIZATION:** Wheel size and specification can be engineered to allow for optimized processes independent of machine tool platform.

**OEM:** MTI, Veeco, Disco

\*Patent Pending



## Case Study

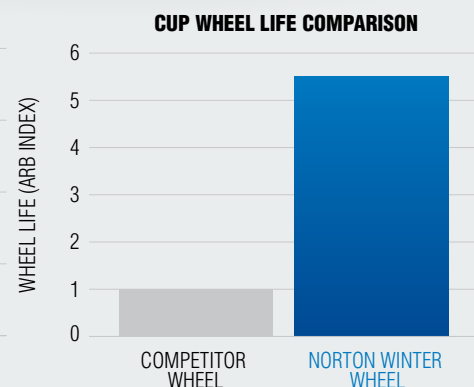
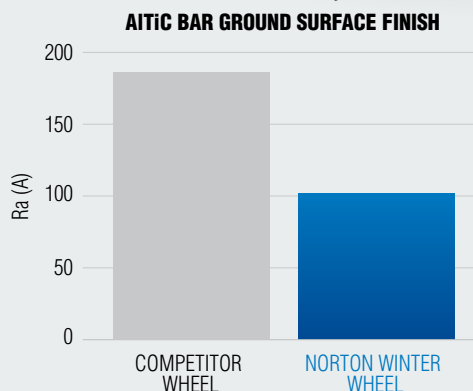
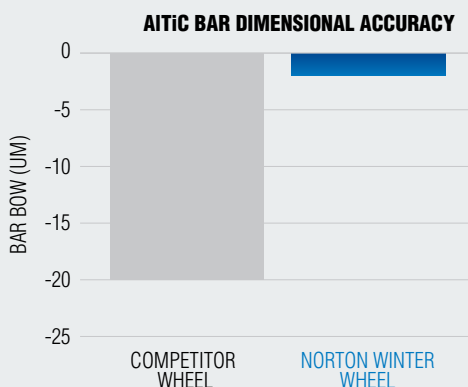
**APPLICATION:** 150 mm AlTiC Bar Grinding

**MACHINE:** MTI

**NORTON WINTER WHEEL:** FAVS Cup Wheel

**INCUMBENT:** Competitive Cup Grinding Wheel

**RESULTS:**



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**NO-RISK TEST**

