





BACKGRINDING WHEELS

AGGRESSIVE ON MATERIAL REMOVAL WHILE SOFT ON FINISH

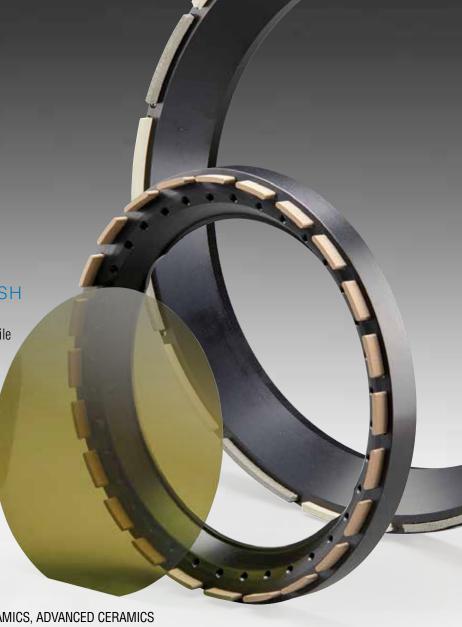
New Prisma Coarse Fixed Abrasive Vertical Spindle (FAVS) wheels allow for high stock removal and long wheel life while maintaining a high quality surface finish when grinding semiconductor wafers. With a patent-pending design these free-cutting wheels require extremely low forces minimizing the risk of sub-surface damage. Able to handle either wire sawn or laser sawn wafers, these wheels tackle even the sharpest features while achieving fast stock removal.

KEY MARKET SEGMENTS
SEMICONDUCTOR WAFER MANUFACTURING

KEY MATERIAL SEGMENTS

SILICON CARBIDE, AMBER, ALUMINA, STRUCTURAL CERAMICS, ADVANCED CERAMICS

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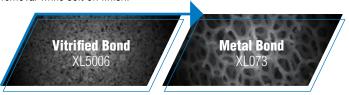
PRISMA FAVS COARSE BACKGRINDING WHEELS

FEATURES & BENEFITS

- · Grinds multiple incoming surface finishes (wire sawn, laser sawn, lapped, ground, polished) on wafer and boule
- · Offers high stock removal for optimized productivity
- · Easily grinds sharp features while maintaining good wheel life
- · Lower grinding power for reduced sub-surface damage
- · Combines the long life and superior finish of metal and vitrified bonds

Vitrified and Metal Bond

Hybrid wheel features alternating vitrified and metal 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: 8", 10", 11", 12"

From 320 mesh to 5000 mesh GRIT SIZE:

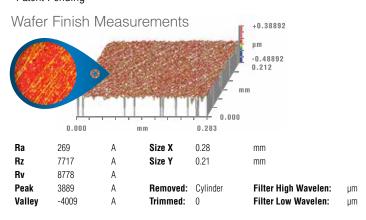
BOND: Metal, Vitrified

CUSTOMIZATION: Size/Specification can be engineered upon request for

optimized process independent of machine tool platform

Revasum, Disco, Speedfam, Accretech, Okamoto OEMS:

*Patent Pending



Case Study

APPLICATION: 150 mm 4H-N SiC Wafer MACHINE: Revasum 7AF-HMG

NORTON PRODUCT: Prisma Coarse

COMPETITOR:

Competitive Backgrinding Wheel

- The Prisma coarse wheel removed all damaged surfaces of the sliced wafers from Laser separation/Wire saw/Lapped
- Stable grinding power achieved with 10+ wafers ground
- More than 2X life versus the competitor with lower grinding force/power





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