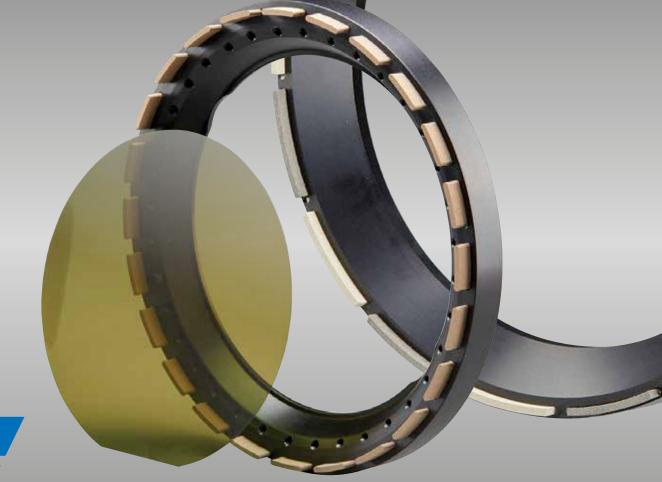


WINTER

(Transforming surfaces



BACKGRINDING WHEELS



KEY MATERIAL SEGMENTS

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



AGGRESSIVE ON MATERIAL REMOVAL WHILE SOFT ON FINISH

New Prisma Coarse Back Grinding Wheels (FAVS) 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.



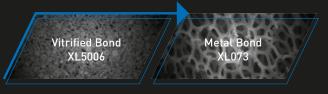
FEATURES & BENEFITS:

- 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





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.



COMMON WHEEL SIZES 8", 10", 11", 12" **GRIT SIZE** BOND

CUSTOMIZATION

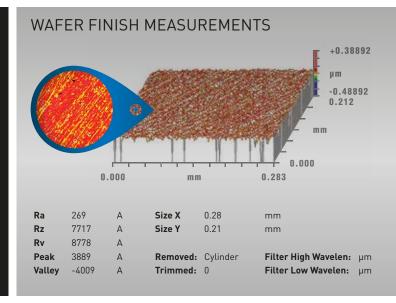
0EMS

*Patent Pending

From 320 mesh to 5000 mesh

Metal, Vitrified

Size/Specification can be engineered upon request for optimized process independent of machine tool platform Revasum, Disco, Speedfam, Accretech, Okamoto

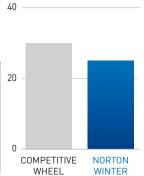


CASE STUDY - BACKGRINDING WHEELS

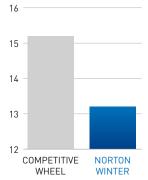
APPLICATION	150 mm 4H-N SiC Wafer
MACHINE	Revasum 7AF-HMG
NORTON PRODUCT	Prisma Coarse
COMPETITOR	Competitive Backgrinding Wheel

RESULTS:

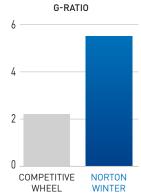
- The Prisma coarse wheel removed all damaged surfaces of the sliced wafers from Laser separation/ Wire saw/Lapped
- ✓ Stable grinding power achieved with 10+ wafers ground
- More than 2X life versus the competitor with lower grinding force/power



MAX GRINDING FORCE (LBF)



MAX GRINDING POWER (AMP)





Saint-Gobain Abrasifs **European Headquarters** 251 rue de l'Ambassadeur 78700 Conflans France

Tel: +33 (0)1 34 90 40 00 Fax: +33 (0)1 34 90 43 97



Form # 4179

www.youtube.com/NortonAbrasivesEMEA



