7AF-HMG Wafer Grinder
Designed for Advanced Grinding of Hard Materials

SYSTEM OVERVIEW
Revasum’s 7AF-HMG grinding solution extends wheel life by nine times, increases uptime by 10%, boosts wafer output by 15 percent, and reduces the cost of ownership by seven times. With a return on investment of less than one year, the choice for SiC grinding is clear: choose the 7AF-HMG.

WHEEL LIFE IS NINE TIMES BETTER*
A SELF-DRESSING GRIND PROCESS*
THE RETURN ON INVESTMENT IS LESS THAN 12 MONTHS*
88 PERCENT FEWER WHEEL CHANGES*

*When back grinding SiC Wafers with 550µm target removal, and annual production of 25,000 wafers

FEATURES
Real-time grind performance monitoring
A self-dressing grind process
Grind spindles can be fitted with coarse or fine wheels
Supports dual fine grind, dual coarse grind, and standard coarse/fine grind processing
Wafer flipping available for double-side grinding applications
In-situ, real-time thickness control
Air bearing spindles equipped with 8Hp motors
Robust, contemporary Windows 7 based operating system

BENEFITS
Achieves <1µm TTV for most applications
Astounding performance on wire sawn SiC wafers
Designed to reduce consumables and operations costs
Accommodates incoming wafers with varied thicknesses without presorting
A wide process window, reduces setup time and increases process repeatability
Surface finish can be optimized for subsequent processing
Easy to maintain and to switch between wafer sizes
Flexible process flows
**TECHNICAL SPECS**

- **Dimensions** - (SAE) 73"W x 85" D x 76" H
  (Metric) 1.86M x 2.15M x 2.46M
- **Footprint** - ~42.6 Ft² [3.98 M²]
- **Weight** - ~8500 lbs [~3865 K]
- **Wafer Capacity** - 50mm to 200mm
- **Wafer Measurement** - In-situ, contact probe
- **Wafer Handling** - Fully Automated
- **Load/Unload** - 1 send, 1 receive
- **Configuration** - 2 chucks, 2 spindles

**APPLICATIONS**

7AF-HMG is used for backside thinning and for bulk thinning of wire-sawn substrates for hard materials, including:

- SiC
- GaAs
- InP
- GaN
- Sapphire
- LiNbO3
- and more...

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