

Midas T SiC Grinder



A leader in Silicon Carbide (SiC) Wafer technology has once again come to Weldon for solutions to their unique SiC boule (ingot) grinding requirements. In this application, Weldon's multi-spindle, turret based wheelhead design on the Midas platform allows for OD, Face, Flat, Notching, and Angled-Plane End Face grinding all in the same cycle.

The results are increased productivity, lower SiC wafer production cost, and consistent high quality.

System Suppliers:

FANUC 32i-BT CNC control & X/Z axis linear motors, **Encyclon** coolant filtration system, **Koolant Coolers** multi-circuit chiller for spindles & linear motors, **Renishaw** lateral locator, **ATS** collet chuck, **Fibro** indexer, **GMN** main spindle, **Setco** facing & notching sub-spindles, **GII Solutions** electric rotary dresser, **Norton** diamond dressing roll, **Heidenhain** linear & rotary glass scales, **Balance Systems** acoustic emissions monitoring system



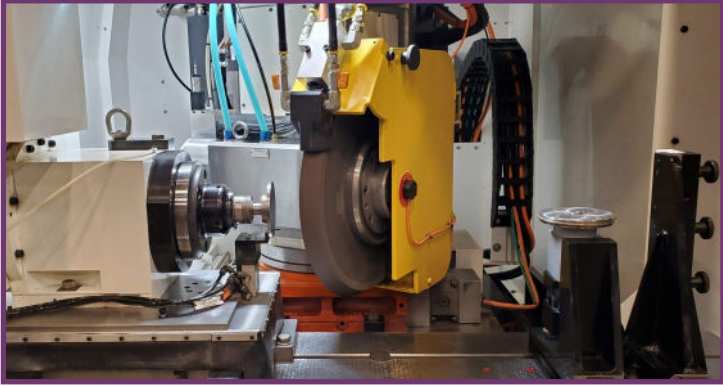
Weldon Solutions offers a full line of CNC OD, ID, and combination grinders. As a FANUC Robotics integrator, Weldon can also address your machine tending, material removal, material handling, and packaging/palletizing needs.

QUALITY, Over and Over Again.

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425 East Berlin Road, York, PA 17408 - 717-846-4000

Contact Weldon today to find out how a new CNC grinder can enhance your manufacturing operation, and increase efficiency and profitability

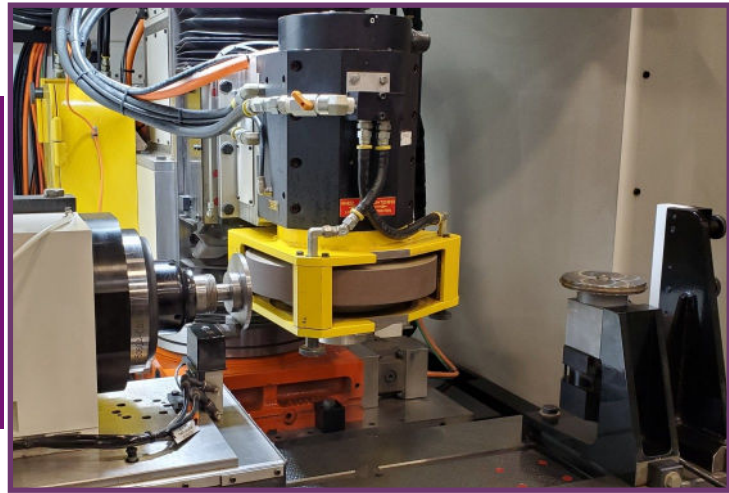
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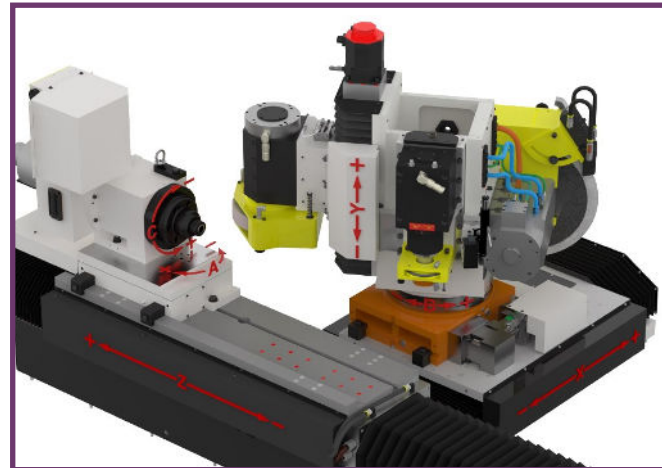
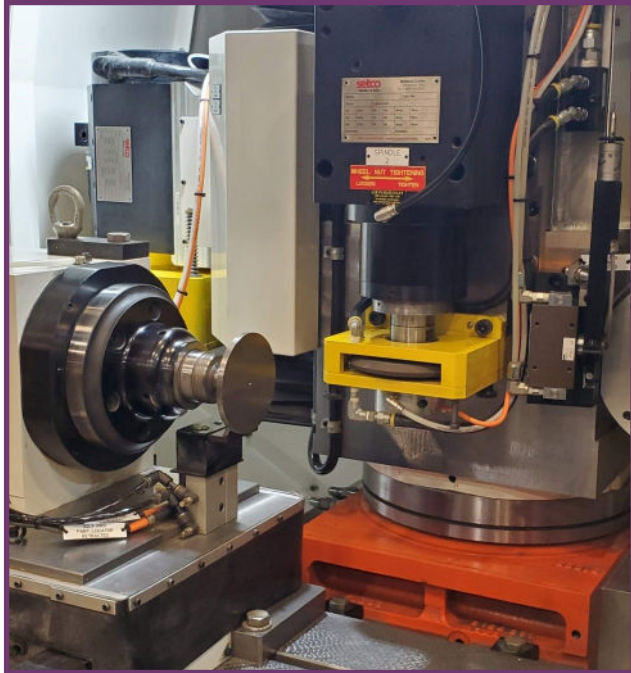
In the 1st operation, the main spindle angular approach grinding wheel is used to grind the OD and then the flat end face (dome).

In the 2nd operation, a sub-spindle with a vertically mounted, straight approach wheel is presented to generate (1) or (2) flats to specific C-axis coordinates relative to the grain structure of the crystal.

As the possible 4th operation, using this same sub-spindle which is mounted to the vertical Y-axis, the Angled-Plane End Face can be ground off perpendicular to the boule centerline up to 5°, with the programmable A-axis pivoting workhead.



In place of a primary flat, for the 3rd operation, a notch can be ground with the fixed, vertical sub-spindle using a pre-formed wheel.



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