



Model GNX200B	
No. of Spindle	: 2
No. of Vacuum chuck	: 3
Spindle Motor	: 2.2 Kw
Grinding Mode	: Gauge
Work spindle Motor	: 0.75 Kw
Wafer size to grind	: 4/5/6 & 8"
Bearing type	: Air for Spindle

Full-Automatic Wafer Grinder for Production
Available to dock Special Un-load unit/Polisher/Etcher
and Mounter

Precision Back Grinder
Model GNX200B

Service:
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FEATURES

Model GNX200B grinder is a fully automatic continuous downfeed grinding machine. Wafers are handled through the machine by a robot, and load/unload arms. Two different stations are used for wafer cleaning after the final grind station. Chuck speed, grinding wheel, and grind spindle downfeed rate speeds can be used to manipulate grinder throughput, surface finish, and wheel life. A two-point in-process gauge measuring system controls wafer thickness under grind spindles 1 and 2. A three-point grind spindle angle adjustment mechanism is utilized for easily maintaining wafer profile (ttv); with the option a motorized adjustment. The main motors are maintenance free AC servomotors. I/O data, grinding conditions, error messages are clearly visible on the GUI touch screen and downloadable through the computer. All computer logs are automatically saved for 30 days. SECS/GEM communication software is also available. In-line coin-stack, polish, or etch system may be directly connected to the GNX200B.

SPECIFICATIONS

Maximum wafer-machining diameter of wafer	Ø4" to Ø8" (universal sizes available)
Grinding Spindle: Bearing type Motor Rapid feed speed Grind feed speed	Air bearing, maximum 3600 rpm 2.2 kw, 4P, high frequency motor 200 mm/min 1 to 999 µm/min
Grinding wheel size	Ø250 mm
Index Table: Number of work spindles Work spindle Bearing type Speed of Work Spindles	3 Mechanical Bearing, or Air Bearing (optional) 1 to 600 rpm
Automatic Sizing Device: Wafer thickness measuring system Wafer minimum setting size Wafer size display range	2 point contact in-process gauge 1 µm 0 to 1.2 mm; extended range software available
Table Cleaning Device	Water + Ceramic block
Wafer Cleaning Unit	Water + brush, and spin/rinse dry station
Number of Cassettes	2 stations (option for 3 stations)
Control Cabinet CRT Display Programming method	Mounted on the main body Color 17" GUI touch screen Touch screen
Utilities: Electric Power Cutting Water Consumption Cleaning Water Consumption Chiller Unit for Grind Spindle Head Air Consumption (dry air) Vacuum Pump Unit	3P, 200V, 17KVA 15 to 20 liter/min 8 liter/cycle 5 liter/min (city water) 60 liter/min (5.5kg/cm ²) 1.5 kw motor, 40 Torrs, Exhaust 40 m ³ .hr 5 liter/min Coolant (city) water
Throughput	Ø6" = 55 wph, Ø8" = 45 wph (approximately)
Grinding Accuracy: Wafer thickness variation (ttv) Wafer to wafer thickness Roughness	Ø6" = 1.0 µ m or less, Ø8" = 1.5 µ m or less Ø6" = 1.5 µ m or less, Ø8" = 2.0 µ m or less Ø6" = 0.1 µ m Rmax or less, Ø8" = 0.2 µ m Rmax or less

Specifications subject to change without notice.