

# CNC Edge Grinder – Small Shapes



## 6052-1 CNC Edge Grinder – with high production dual table option

The Glassline CNC Grinder Model 6052-1 is a four-axis, continuous path rotary edge grinder designed specifically to run small shaped parts. A high-speed dual-station rotary index table allows for maximum throughput, by minimizing the dwell time between grind cycles to approximately two seconds, thus maximizing the use of the grinding wheel. The system is designed for easy load/unload by an operator, and can optionally be automatically loaded from a reference station.

The upper frame is precision machined along the top where linear rails are mounted. A servo driven ballscrew powers the horizontal travel of the spindle carriage. Mounted to this carriage is a vertical axis of similar construction. A coolant guard is fitted to the head around the grinding wheel and attached to a telescoping tube which projects out through the back of the frame and is attached to a mist collection system (optional). Coolant tubes contained within the coolant guard, supply cooling water to the diamond wheel. An automatic air pinch valve shuts off the water when not in cycle. The entire system is automatically lubricated.

On the lower side of the frame a specially designed rotary index table is mounted, which rotates between two independent grind stations. Mounted to the table are two independent precision rotary servo axes, which are fitted with vacuum chucks. Two bridge-frame arrangements are mounted to the top of the table over each vacuum clamp. On each bridge is a large clamp cylinder which is fitted with an upper clamping chuck. These cylinders hold the glass firmly in place while being ground.

Optional software allows grinding of bent glass, such as side view mirrors for automotive.

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## SPECIFICATIONS

6052-1 Shape Grinder	Equipment Specifications
Glass Size	2" to 12" minimum radius (from part tool center); 40" diameter also available
Thickness	2mm to 8mm nominal
Cycle Time	minimum 6 seconds part to part (based on shape)
Axis Speed	30m per minute linear maximum
Wheel Size	6" or 4" OD nominal; 1.5" OD or other wheel sizes optional
Voltage	480 VAC / 3 phase / 24 VDC control

## FEATURES

- ▶ Index Table for small dwell time between grinding cycles
- ▶ Four Axis Machine – includes auto wheel height adjustment
- ▶ Mist Collection included
- ▶ Windows XP CNC based controls

## OPTIONS

- ▶ Auto Stoner
- ▶ Fence and Light Curtain
- ▶ Auto Load / Unload System
- ▶ *WinShape* Software – shape generation



*Dual Station Rotary Index Table*



*Auto Stoner Option*

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