



# SG-2060

## TRIDEX BURR-FREE ELECTROCHEMICAL CNC SURFACE GRINDER

The Tridex SG-2060 Burr-Free Electrochemical CNC Surface Grinder is a faster alternative to traditional surface grinding. By providing burr-free and low force grinds that leave no heat-affected zones it virtually eliminates the need for deburring or other corrective secondary operations. For grinding points on wires or medical needles, the Tridex PGS-100 Point Grinding System can be easily integrated.



### KEY FEATURES

- Robust stationary table design makes the machine easier to automate and provides more robust machine guarding.
- Wheel moves in X, Y, and Z axes.
- Available Index Table Pallet Changer allows the operator to load the next part while grinding is in operation.
- Increasing productivity, index table can run two Tridex PGS-100 Point Grinders.
- Easily integrates with automation to increase process efficiency.
- Standard CNC simple conversational control with color Mitsubishi HMI touchscreen.
- Standard MPG Handwheel.
- Meets CE & ISO 13849 safety standards.
- Heavy duty cast iron weighing 16,000 lbs for superior tolerance and finish.
- Precise flange mounted electrolytic grinding spindle
- Stainless steel electrolyte tank sealed against mist and leaks.
- Feed components are protected from electrolyte.
- Integration of the Tridex PGS-100 Point Grinding System is simple for grinding points on wire and medical needles.
- Available with full rotary table (C) axis.

### SPECIFICATIONS

**Axis Travel:** X: 24" (600mm); Y: 15.75" (400mm); Z: 8" (200mm)

**Table Size:** 31.5" (800mm) x 13.4" (340mm)

**Positioning Accuracy:** +/- .0001"/4" (0.0025mm/100mm)

**Repeatability:** +/- .00004" (0.001mm)

**Traverse Speeds:** Max. 600"/min (15m/min)

**High Precision Spindle:** Sealed Ceramic Bearings, Direct Coupled

**Spindle Motor:** 7.5hp (5.6KW) Direct Drive AC Spindle Motor - No Drive Belt, 0 - 3,500 RPM

**Power Supply:** 20V DC, 300A Solid State (600A, 1000A Optional)

**Control:** Mitsubishi CNC color screen, Removable MPG Handwheel

**Electrolyte Supply Tank:** 50 Gallon (200 Liter) Sealed Stainless Steel

**Safety Standards:** Meets CE and ISO 13849.1 Safety Standards

**Machine Weight:** 16,000 lbs (7258kg)

**Footprint:** W: 72" (1,830mm) ; D: 85" (2,160mm); H: 88" (2,235mm)

**Air:** 4CFM @ 80PSI



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### APPLICATIONS FOR ECG

#### Medical Devices:

- Bevel Grinding
- Slot Cutting
- Stylet Grinding
- Form Grinding
- Needle Pointing
- Trocar Pointing
- Menghini Pointing
- Phaco Tips
- Biopsy Tools
- Implant Feature Grinding
- Dental Products
- Skive Manufacturing

#### Aerospace:

- Z Notch Grinding after Weld Repair
- Honeycomb Grinding
- Honeycomb Removal
- Vane Tip Grinding
- Castle Nut Slot Grinding
- Fuel Nozzle Slotting

### WORKABLE MATERIALS

- Stainless Steel
- Inconel
- Nickel Titanium, Nitinol
- Cobalt-Chrome
- Hastelloy
- Other high temperature alloys
- Zirconium
- Sintered Metals
- Magnetic Metals, NdFeB, SmCo



Optional Pallet Changer to  
Optimize Cycle Time



ECG for Burr-Free Grinding  
Applications



High Precision Spindle



Stable Gray Iron Castings  
for High Precision



Intuitive User Interface with  
Color Touch Screen