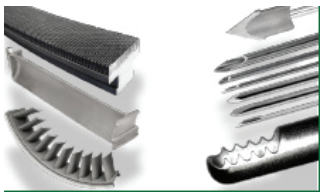
mmt
MEDICAL MANUFACTURING TECHNOLOGIES

SG-1645

Tridex Burr-Free Electrochemical NC/CNC Surface Grinder

The Tridex SG-1645 Burr-Free Electrochemical NC/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.

The SG- 1645 comes standard with conversational NC control with the option for Mitsubishi CNC controls. For grinding points on wires or medical needles, the Tridex PGS-100 Point Grinding System can be easily integrated.



Electrochemical grinding (ECG) yields a burr-free finish, ideal for applications in the medical device industry, aerospace, and many other fields

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.
- Easily integrates with automation to increase process efficiency.
- Standard simple conversational control with color HMI touchscreen. Full CNC is optional.
- Standard MPG Handwheel.
- Heavy duty cast iron weighs 8,000 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 forgrinding points on wire and medical needles.

To learn more about the SG-1645, including a comprehensive list of features and specifications, please visit:

sales@mmt-inc.com

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SG-1645

Tridex Burr-Free Electrochemical NC/CNC Surface Grinder

Specifications

Axis Travel:	X: 18.1” (460mm); Y: 15” (380mm); Z: 6.3” (160mm)
Table Size:	22.8” (580mm) x 8.6” (220mm)
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:	80 psi ma7.5hp (5.6KW) Direct Drive AC Spindle Motor - No Drive Belt, 0 - 4,000 RPMinimum
Power Supply:	0-20V DC, 300A Solid State (600A Optional)

Control:	Mitsubishi conversational color touch screen standard; CNC optional; 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:	8,000 lbs (3628kg)
Machine Footprint:	W: 80” (2,030mm) ; D: 76.5” (1,945mm); H: 75.5” (1,915mm)
Air:	4CFM @ 80PSI

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

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Glebar is proud to be an MMT company – the sole source for automated, process-driven medical manufacturing.

Medical Manufacturing Technologies (MMT) brings together applications expertise, technical solutions, and aftermarket support to revolutionize medical device manufacturing.

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