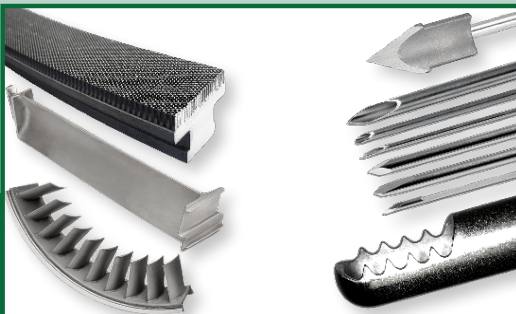


Model SG-1645



Electrochemical Grinding Advantages

- Completely Burr-Free Cut
- Very Low Cutting Forces for Thin Wall Parts
- Low Cutting Temperatures
- No Heat Affected Zone
- No Work Hardening
- Long Wheel Life
- Fast, Precise Cuts
- Almost all Metals Can Be Cut Burr-Free



Standard Features

- Robust Stationary Table Design
- Index Table for Pallet Changer Available
- Heavy Duty Cast Iron for Superior Tolerance and Finish
- Precise Flange Mounted Electrolytic Grinding Spindle
- Stainless Steel Splash Guard Standard
- Stainless Tank Sealed Against Mist and Leaks
- Feed Components are Protected from Electrolyte
- Mitsubishi FX5 PLC System (optional: M70-V High Speed CNC Control!)
- Simple Conversational N/C Control
- Color Touch Screen
- Digital Voltmeter and Ampmeter
- Pendant Mounted User Interface



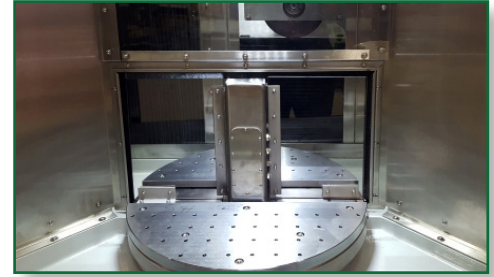
Technology for the 21st Century

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Electrochemical NC/CNC- Surface Grinder Model SG-1645

Specifications

Axis Travel:	X: 460mm (18.1") ; Y: 380mm (15.0") ; Z: 160mm (6.3")
Table Size:	580mm (22.8") x 220mm (8.6")
Positioning Accuracy:	+/-0.0025mm/100mm (.0001"/4")
Repeatability:	+/-0.001mm (.00004")
Traverse Speeds:	max. 15m/min (600"/min.)
High Precision Spindle:	Sealed Ceramic Bearings, Direct Coupled
Direct Drive Spindle Motor	5.6KW (7.5hp) Spindle Motor -No Drive Belt, 0 - 4,000 RPM
Power Supply	0-20V DC, 300A Solid State (600A Optional)
Control	Operator Pendant Control, Removable MPG Handwheel
Electrolyte System	200 Liter (50 Gallon) Stainless Steel Sealed Tank
Safety Standards	Meets CE and ISO 13849.1 Safety Standards
Machine Weight	3,000kg (6,600 lbs)
Footprint	W: 2,030mm (80") ; D: 1,945mm (76.5") ; H: 1,915mm (75.5")



Optional Pallet Changer to Optimize Cycle Time



User Interface with Color Touch Screen

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:

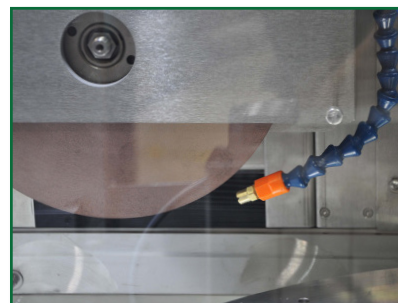
- Z Notch Grinding after Weld Repair
- Honeycomb Grinding
- Honeycomb Removal
- Vane Tip Grinding
- Castle Nut Slot Grinding
- Fuel Nozzle Slotting

General:

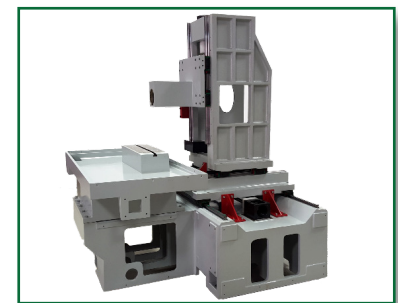
- Stainless Steels
- Inconel
- Nickel Titanium, Nitinol
- Cobalt-Chrome
- Hastelloy
- Other High Temperature Alloys
- Sintered Metals
- Magnetic Metals, NdFeB, SmCo



ECG for Burr-Free Grinding Applications



High Precision Spindle



Stable Gray Iron Castings for High Precision

Optional Equipment

- Available with optional M70-V High Speed CNC Control
- Pallet Changer for High Production Applications
- Automatic Door Operation with Light Curtain
- High Speed Centrifuge Advanced Filtration
- Motorized Diamond Roll Dresser
- Electromagnetic Chuck
- Programmable Electrolyte Delivery System
- Servo Controlled Point Grinding Fixture
- 4th Axis Rotary Collet Fixtures

Outstanding customer service is our mission

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