



Electrochemical Surface Grinder with Programmable Touch Screen Control

World Class ECG Technology

Burr-Free Production

Low Cutting Force
free of heat stress

No Heat Affected Zone

No Work Hardening

No Recast Layer

No Metallurgical Damage

Faster than EDM

Grind today's toughest materials
independent of hardness or strength

Form grind complex geometry

Grind materials harder than Rc 65

Grind fragile workpieces

Grind thin wall workpieces

Grind thermosensitive materials

Grind—Form—Slot—Cutoff

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Model EG 618S (shown with optional pendant mounted 8" color touch screen)

Electrochemical Surface Grinder

Featuring SmartAxis Table Power Feed &
Touch Screen Programmable Control

Capacity:

Work Surface: 6" x 18"

Table Travel (X): 21"

Crossfeed Travel (Z): 6-1/2"

Height under 8" Dia. Wheel ≈ 15"

Smart Axis:

Conventional and Climb Grind capability

Infinitely Variable Feed Rate: Range; 0.25 to 60 inches per minute

Multiple settings for rapid traverse and feed positions

— No Limit Switches to Set —

Touch Screen:

Provides Control for All Machine Functions

Features On-Screen Instructions and Error Checking

Allows Pre-Set Table Positions for Multiple Fixtures, Wheel Dressing,
or Part Loading



Touch Screen Programmable Interface provides full control and simplifies machine setup. Allows multiple settings for table position, rapid traverse and feed rates. Allows pre-set table positions for multiple fixtures, wheel dressing, or part loading.

Coupled with the optional I/MAC feature, (Interactive Manual Axis Control), using Sony Magnescale technology, the PLC control system features include; reference zero position, work offsets, and wear offsets. The system includes position error checking, which inhibits machine cycle until pre-programmed position conditions are met.

This insures that the machine is always in the predetermined position to cut, wheel dress, retract, or start cycle. The I/MAC feature removes the guesswork involved with multiple fixtures, repeat setups, or automated tooling.

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Model EG 618S Electrochemical Surface Grinder

Specifications

Work Surface	6" W. x 18" L.
Table Travel	19"
Crossfeed Travel	6-1/2"
Capacity	Centerline of Spindle to Table ≈ 19"
Spindle Motor	5.0 HP TEFC
Wheel Size	8" Dia. x 1-1/4" Dia. Hole
Lubrication	Automatic
Electricals	230/460 V - 3 Ph - 60 Hz 13 KVA Input
Base	Heavy Duty Cast Iron
Column	Cast Iron
Weight	≈ 2850 Lbs.
Shipping Wt.	≈ 3250 Lbs.
Color	Everite Beige

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Standard Equipment

6" Color Touch Screen Control / panel mounted
300 Amp DC Lectropak and Control
Work Area Illumination System - 20 Watt enclose fluorescent light
Machine mounted 'Cycle Start' button
5 HP TEFC Motor
Work Area Includes: Front Lexan Sliding Doors, and Lexan Windows.
Wheel Guard - for 8" Dia. Wheels up to 1-1/4" Wide
Wheel Adapter - for 8" Dia. Wheels
Electrolyte Nozzle - for 1/4" to 3/4" wide wheels
50 Gal. Electrolyte Tank - Pump and MC3 Mist Collector with Pre-Filter
Stainless Steel - Cartridge Type, Electrolyte Filter
Supply of Electrolyte
Automatic Lubrication System
Epoxy Paint, Everite Beige
Instruction / Maintenance Manuals, (1) Set

Model EG 618S Electrochemical Surface Grinder

Optional Equipment:

Everite Interactive Manual Axis Control (I/MAC) Features: Zero Reference, Work Offsets, Wear Offsets, and Position Error Checking, which prohibits cycle start unless program conditions are met.

Lectropak 600 A. or 1000 A. D.C. Power Supply

8" Color Touch Screen Control - Pendant Mounted

Variable Speed Control / Dynamic Braking

High Volume Electrolyte Filtration

Spindle Load Meter

Digital Voltmeter and Ammeter

Electrolyte Flow Meter

Stainless Steel Splash Enclosure

Extra Wide 14" Splash Enclosure

Stainless Steel Pump and Tank

Oversize Wheel Guards

Special Work Holding Fixtures

Wheel Dressers

Permanent and Electromagnetic Chucks

Overhead Wireways

Special Electrical Requirements

Large Variety of Wheels available in Aluminum Oxide, Silicon Carbide, Diamond, and CBN

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One stop shopping for ECG supplies:

Electrochemical Sales - Service - Supplies

Surface Grinders - Cutoff Machines - Point Grinders

ECG Wheels / Conventional & Super-Abrasive

Electrolyte

Tools & Fixtures / Standard & Custom