



# CS1-E

## TRIDEX BURR-FREE ELECTROCHEMICAL CUTOFF MACHINE

The Tridex CS1-E Burr Free Electrochemical (ECG) Cutoff Machine features completely burr-free cutting virtually eliminating the need for deburring or other corrective secondary operations and reducing scrap. Almost all metals can be cut burr-free with ECG making it an attractive option for cutting medical tubing. Increasing efficiency, the CS1-E can cut multiple bars or tubes per cycle only limited by the part diameter.



### KEY FEATURES

- Compact, robust design for superior tolerance and finish.
- Completely burr-free cuts virtually eliminate the need for deburring and other secondary operations.
- Fast, precise cuts.
- Easy setup and operation using color touchscreen HMI.
- Cuts multiple tubes or bars per cycle.
- Programmability and flexibility of changing cut lengths without operator input.
- Offered in right-or-left hand configuration to create a work cell with one operator running two machines.
- All stainless construction including full access stainless splash guard and electrolyte tank.
- No painted surfaces.
- Fixtures and jobs can be changed in one minute.
- All feed components are protected from electrolyte and grit.
- No mechanical adjustments.

### SPECIFICATIONS

**Cutting Capacity - Diameter:** Standard .012" (0.3 mm) to 3.15" (80mm)

**Cutting Capacity - Length:** min .100" (2.5mm) no maximum

**Positioning Accuracy:** 0.0004" (0.01mm)

**Traverse Speeds:** 600"/min

**High Precision Spindle:** Ceramic Bearings and Air Purge

**Control:** Operator pendant color touch screen

**Fixtures:** Quick change - no tools required

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

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

**Spindle Motor:** 5HP direct drive servo motor

**Air:** 4CFM @ 80PSI

**Power:** 460V, 60Hz standard. 380V, 50Hz optional.

**DC Power:** 20V, 300A standard. 600A optional.

**Machine Footprint:** 137" x 79" x 79" (3,480 x 2,000 x 2,000mm)

**Machine Weight:** 3,300 lbs (1,497kg)



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### APPLICATIONS FOR ECG CUTOFF

- Medical Device Tubing
- Hypodermic Needles
- Catheters and Guidewires
- Flexible and Perforated Tubing
- Aircraft Fuel & Oil Line Tubing
- ultra-High Purity Tubing for Gas Delivery Systems
- Heat Exchanger Tubes
- Chromatography and Capillary Tubing
- Zirconium and Nuclear Applications
- Automotive Tube Applications
- Complex Extruded Shapes

### WORKABLE MATERIALS

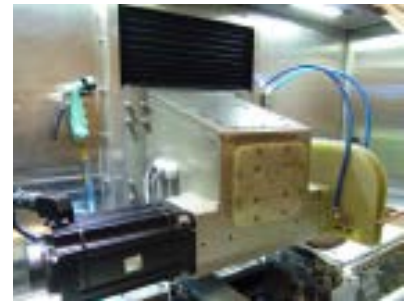
- Stainless Steel
- Inconel
- Nickel Titanium, Nitinol
- Cobalt-Chrome
- Hastelloy
- Other high temperature alloys
- Zirconium
- Sintered Metals
- Magnetic Metals, NdFeB, SmCo



ECG for Burr-Free Tube Cutoff



Stainless Construction



No Mechanical Adjustments



Right or Left Hand Feed for  
Work Cells



Intuitive User Interface with  
Color Touch Screen