



# CS1-EA

## TRIDEX HYBRID BURR-FREE ELECTROCHEMICAL & PRECISION ABRASIVE CUTOFF MACHINE

The Tridex CS1-EA Hybrid Burr-Free Electrochemical (ECG) & Precision Abrasive Cutoff Machine combines the best of the CS1-A Precision Abrasive and CS1-E Electrochemical Cutoff machines into one robust and compact design. The hybrid design provides flexibility depending on the part being cut.



### KEY FEATURES

- Electrochemical Cutoff for Burr-Free tube or wire cutoff.
- Precision Abrasive cutoff with minimal burr.
- Easily change between ECG and Abrasive modes.
- Cuts multiple tubes or bars per cycle.
- All stainless construction including full access stainless splash guard and electrolyte/coolant tank.
- Easy setup and operation using color touchscreen HMI.
- Fixtures and jobs can be changed in one minute.
- 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.
- Thin, inexpensive rubber bonded wheels never go dull or need sharpening, minimizing kerf loss.
- Leaves parts with a smooth surface finish, 0.2 -0.4 RA typical.

### SPECIFICATIONS

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

**Cutting Capacity - Length:** min .25" (6 mm) to .12" (3 mm)

**Positioning Accuracy:** .0004" (0.01mm)

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

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

**Spindle Motor:** 7.5HP direct drive servo motor

**Power (Precision Abrasive Mode):** 460V, 60Hz standard. 380V, 50Hz optional

**Power (Electrochemical Mode):** 20V, 300A DC - 600A optional

**Carbide Blade Guides (Abrasive Mode):** Low profile with simple adjustment control

**Control:** Operator pendant color touch screen

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

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

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

**Air:** 4CFM @ 80PSI

**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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TRIDEX HYBRID BURR-FREE ELECTROCHEMICAL & PRECISION

ABRASIVE CUTOFF MACHINE

## 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

## APPLICATIONS FOR ABRASIVE CUTOFF

- Stainless and Nickel Alloy Forging Blanks
- Hardened Tool Steel Rod
- Tungsten and Molybdenum Rod
- Rubber/Metal Extrusions
- PEEK and PEEK-SiITM Tube
- Dental Alloys
- Ceramics
- Ferro-Magnetic Alloys

## WORKABLE MATERIALS

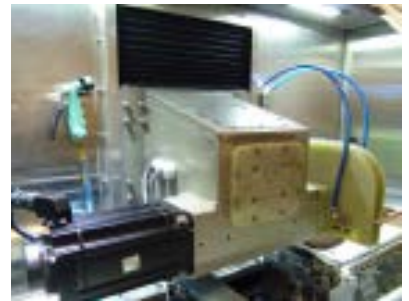
- Stainless Steel
- inconel
- Nickel Titanium, Nitinol
- Cobalt-Chrome
- Hastelloy
- Other high temperature alloys
- Zirconium
- Sintered Metals
- Magnetic Metals, NdFeB, SmCo



Electrochemical Cutoff for Burr-Free Tube or Wire Cutoff



Stainless Construction



No Mechanical Adjustments



Precise Abrasive Cutoff with Minimal Burr



Intuitive User Interface with Color Touch Screen



Right or Left Hand Feed for Work Cells