

SCIAKY OFFERS THE WIDEST RANGE OF ELECTRON BEAM WELDING SYSTEMS IN THE WORLD

# Sciaky Electron Beam External Fixed Gun Welding System

Sciaky's External Gun Electron Beam Welding System is the most versatile external gun system on the marketing today. Here's why:

### **UNMATCHED PRECISION & PERFORMANCE**

Sciaky's triode-designed 60kV external gun is designed to significantly improve narrow beam geometry. The gun's cantilever configuration makes filament replacement quick and easy. A direct-mounted turbomolecular pump, with an isolation valve, maintains the gun's vacuum at better than 1 x 10-4 Torr for superior performance. A high resolution camera and monitor offer controls for optical focus, zoom, shutter, iris and an adjustable cross-hair for beam targeting. The gun column is constructued of stainless steel and utilizes internal coils for beam focusing and deflection.

#### **INTUITIVE OPERATOR INTERFACE**

Sciaky's operator interface is configured for all routine programming, file manipulation and operative process control functions. Additional virtual hardware allows the beam supply to be enabled and provides chamber vacuum control, video control and deflection monitoring. A separate portable pendant can be provided for parameter display, program control, critical parameters override and mechanical axes jogging.

#### **TOTAL PROCESS CONTROL**

Sciaky's W2020 Computer Control provides total control over process paramaters with +/- 1% accuracy and facilitates up to 6 axes of motion control. Capabilities include process monitoring with data aquisition, networking and off-line programming.

1+(877)450-2518 sciaky.com



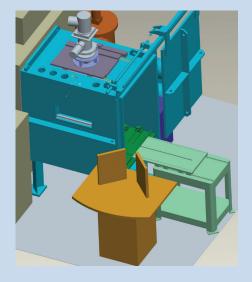
Sciaky's External Gun EB Welding System comes with an optional Rotary/Tilt Positioner with Optional Z Axis.



# **OPTIONS FOR PUMPING SYSTEMS, POWER SUPPLY & AXES MOTION**

- ► Turbomolecular pump on gun
- ► Roughing and diffusion pumps on chamber
- ► Standard 8kW 15kW power supply available
- X and Y Axes Table
- ► Horizontal or Vertical Rotary Positioner
- ► Rotary/Tilt Positioner with optional Z axis
- Wirefeed, Motorized Wire Nozzle and EBAM (retrofitable or upgradeable)
- Custom Vision Systems
- Head and Tail Stock

- Hand Wheels/Joystick
- Carriage Runout Platform(s)
- Remote Process Monitoring
- Special Beam Deflection Systems



Sciaky's External Gun Electron Beam Welding Systems occupy a minimal footprint on the shop floor.

## STANDARD CHAMBER SIZES FOR SCIAKY MOVING GUN ELECTRON BEAM WELDING SYSTEMS

12 x12 x12 (300 x 300 x 300 mm)

18 x 18 x 18 (450 x 450 x 450 mm)

24 x 24 x 24 (600 x 600 x 600 mm)

36 x 36 x 36 (900 x 900 x 900 mm)

60 x 46 x 56 (1500 x 1160 x 1400 mm)

60 x 46 x 56 (1500 x 1160 x 1400 mm)

60 x 60 x 60 (1500 x 1500 x 1500 mm)





Above models illustrate a weld/EBAM build envelope with wire feed adaptation and five axes of part motion (X,Y,Z,Rotary/Tilt).

\* The actual part envelope is based on added machine options and travel range requirements for a given component. Also, special chamber sizes can be designed specifically to optimize the work or part envelope for your application.

To learn about Sciaky's patented technology, visit www.sciaky.com/patents

To learn more about Sciaky's Electron Beam External Fixed Gun Welding System, call us at 1+877-450-2518, or visit sciaky.com.



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