



Custom Metal Fabrication

C. F. Roark Welding & Engineering Co., Inc.

Post Office Box 67
Brownsburg IN 46112
Fax 317 852-2738
Phone 317 852-3163

Proprietary Information
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Electron Beam Weld Facility



VX.4 – 138 x 108 x 107 W2000 Six Axis CNC Electron Beam Weld System

Specifications

42 KW system with low voltage 60KV moving gun,
500 MA maximum

Chamber size 138" wide by 108" deep and 107" high

Circular, circumferential, linear X, Y & Z axis welding
with six axis simultaneous contouring (X, Y, Z, Rotary,
Tilt, Gun Tilt)

Capable of linear, elliptical, and circular deflection
patterns, also wave shapes including sine and cosine

CCD video Camera for joint tracking, pre and post
weld viewing

System includes dual 20" diffusion pumps with water
vapor cryopump (meissner coil) for improved evacua-
tion cycle time



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Work capability – longitudinal welds up to 114" long on assemblies having maximum dimensions of 136" long by 53" wide by 62" high. Transverse welds up to 50" long

High load capacity (5000 lbs.) rotary tilt positioner



60/60 Gun This system has capabilities up to 60 kW at 60 kV. The gun is equipped with an integral TV viewing system that lets the user view down the column of the gun. It also includes a turbo-molecular pump and valves that ensure clean operation during the chamber vent cycle.