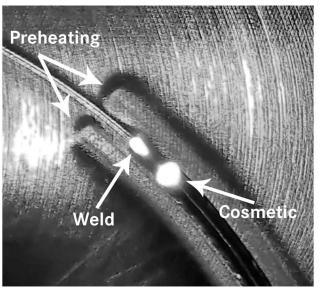
ELECTRON BEAM WELDING





Since 2011, PTR has added five new 5-axis CNC welding systems to our Enfield, CT Job Shop. Once our skilled Welding Technicians & Engineers refine a robust welding process on this state of the art equipment, it is encoded into a repeatable CNC program. Since all PTR systems have precise CNC control of machine motion and all welding parameters, the process can be repeated by any of our operators at any time, ensuring part to part consistency.

Put PTR's experience, know-how, and capabilities to work for you.



Advanced welding process using EBO Jump multi-beam technology.

- Modern Job Shop with 8 full CNC EB Welders
- EB Welder Chambers up to 14 feet long
- High Vacuum (< 1 x 10⁻⁶mbar) Capability
- Automatic Data Collection of all Welding Parameters
- Preheating & Post Weld Heat Treating
- Welding, Metallurgical & Quality Engineers on Staff
- EBO Jump High Speed Beam Deflection
- Metallographic & NDT Services



(860) 741-9354 Enfield, CT jobshop@ptreb.com

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JOB SHOP MENT L **>**[



EB WELDER	CHAMBER SIZE (X" x Y" x Z")	VOLTAGE (kV)	MAX POWER (kW)	SYSTEM CAPABILITIES
1	43 x 29 x 35	60	7.5	
2	43 x 29 x 35	60	15	
3	53 x 36 x 50	90 - 150	25	
4	53 x 36 x 50	90 - 150	25	
5	144 x 60 x 75	90 - 150	30	CNC PV AS HF WF MC MSF 1000
6	70 x 36 x 50	90 - 150	30	
7	168 x 94 x 112	90 - 150	30	
8	36 x 28 x 43	60	15	CNC PV EBO AS AST MC MSF 100





5-Axis Contouring Motion



Partial Vacuum Capable

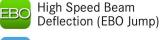


Supports Hairpin

Meissner Coils

SOOD Up to 3000 lbs Capacity

BT Rotary/Tilt & Z-Lift Fixtures



AST

Automatic Seam Tracking



In-House Support **Equipment & Services**

- Metallographic Equipment (Microscopy & Sectioning)
- Metrology
- Helium Leak Testing
- In-House Machining
- Vapor Degreaser
- Stress Relieving Oven
- Overhead Cranes with up to 3-Ton Capacity
- Access to other, OEM Qualified Post Weld Processing Vendors



Job Shop EB Welding system with full CNC control & multi-spindle fixture.



Met Lab for on-site metallographic analysis.



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FAA REPAIR STATION RATINGS & WELDING APPROVALS



Our quality system is based on the AS9100 with formal NADCAP AC7004 accreditation. Through decades of experience, we have prided ourselves on understanding our customer's diverse requirements, providing services that continually exceed their needs, and committing to the entire products lifecycle (development, processing, and post-delivery assurances).

Weld Qualifications

AMS2680	AWS C7-3
AMS 2681	ASME Boiler & Pressure Vessel Code Sec. IX
AWS D17.1	
Mil-W-46132	Customer Specific OEM Approvals



Nadcap Accredited Welding & Aerospace Quality Systems



ITAR Compliant: DDTC Registration # M15306



Inquire about getting your repair added to our Capabilties List!

FAA Repair Station PX8R599Y Electron Beam Welding

Rating	<u>Manufacturer</u>
Powerplant	Pratt & Whitney Aircraft
	Pratt & Whitney Canada
	General Electric
	CFM International, S.A.
	International Aero Engines AG (IAE)
	Honeywell International Inc.
	Rolls-Royce
Accessories -	Hamilton Sundstrand



Hamilton Sundstrand



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