PTR-Precision Technologies manufactures Electron Beam Welding Systems that are easy to use and easy to service. Continuous improvements and customer feedback are the basis for PTR’s designs, which incorporate today’s most advanced features. Industry standard components and modular construction, along with extensive tooling and fixturing options, result in custom solutions with "off the shelf" reliability.

- 60 kV and 150 kV
- Fixed and Mobile Generator Systems
- Universal and Dedicated Mass Production Systems
- Automatic Seam Tracking
- Data Collection of All Welding Parameters
- Optical and Electron Optical Viewing and Recording
- Automatic Beam Alignment and Focus
- Manual, Semiautomatic and Fully Automatic Operating Modes

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A MEMBER OF GLOBAL BEAM TECHNOLOGIES
EBOGEN BEAM
GENERATION SYSTEM

EBO Jump
High speed beam deflection and focus allows multi-pool processing

EBO Set
Automatic beam alignment, focus and stigmatization

EBO View
Scanning electron microscope view as well as magnified optical view of the workpiece

EBO Pat
Programmable deflection patterns for welding, heating and surface treatment

EBO Scan
Automatic weld joint locating and tracking

PTR-Precision Technologies' EBO Gen line of Electron Beam generators are available in 60kV or 150kV versions with up to 60kW of power. Switch mode high voltage power supplies with advanced arc suppression technologies ensure stable performance and consistent weld quality. EBO Jump high speed deflection capabilities include multi-beam processing, back scattered electron analysis for viewing, automatic beam adjustment, joint detection and tracking.
Examples of components welded on PTR Electron Beam Welding equipment include:

**AEROSPACE**
Rotors, Vanes, Blades
Nozzles, Air Frames, Cases, Combustors, Disks, Sensors

**DEFENSE**
Turbine Components, Weapon Systems, Missiles, Rocket Engines, Transmission Gears

**OIL & GAS**
Compressors, Impellers, Valves, Drill Repair, Drill Head Assemblies, Subsea Valves, Downhole Gauges, Sensors

**POWER GENERATION**
Gas & Steam Turbines, Blades, Vanes, Buckets, Nozzles, Diaphragms, Combustors, Nuclear Fuel Assemblies

**TRANSPORTATION**
Speed Gears, Torque Converters, Shaft Assemblies, Differential Gears, Fuel Injectors, Planet Carriers, Turbocharger Impellers

**ELECTRONICS**
Semiconductor Fab Equipment, Sensors, Cooling Plates, Electronic Packaging, Batteries

**RESEARCH**
Vacuum Equipment, Niobium & Copper Cavities, Targets, Plasma Generators, RF Cavities, Superconductors

**MEDICAL**
Medical Instruments, Orthopedic Implants, Surgical Tools