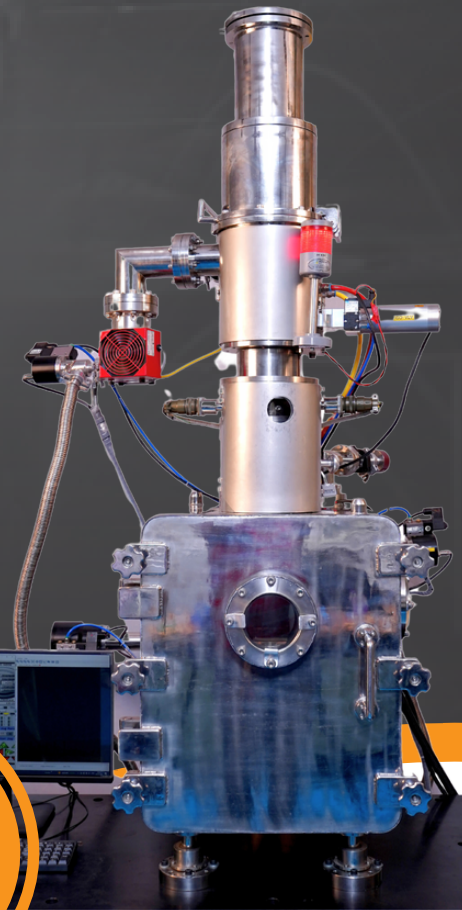
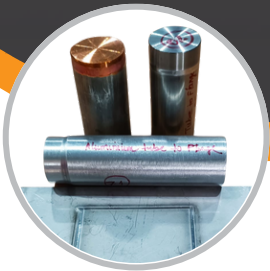


Electron Beam Welding

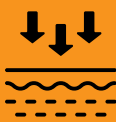
Artech Welders specializes in advanced Electron Beam Welding (EBW), a high-precision welding technique ideal for creating strong, high-quality welds. This process employs a focused beam of high-velocity electrons to melt the materials being joined. The electron beam is generated and applied in a vacuum environment, ensuring deep penetration and no contamination.



1st time in India
with technology transfer from BARC



High-precision welding



Deep penetration



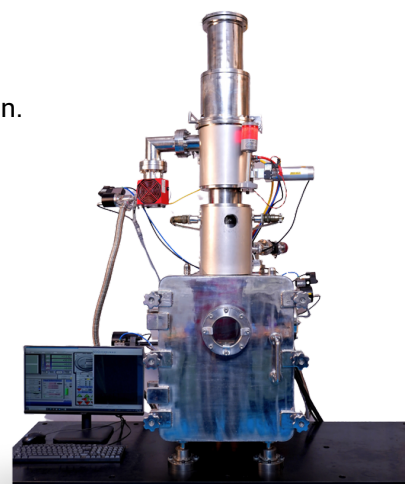
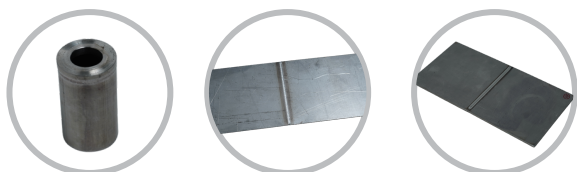
No contamination

About Artech Welders

30+ years of expertise in welding	Pioneers in Capacitor Discharge Projection welding in India	Welding solutions for critical & specialised applications
3500+ Customers	In-house dedicated R&D Team	Nationwide network for service support

High-precision Welding

EBW is particularly effective for welding complex components with high depth-to-width ratios, offering exceptional weld strength and low distortion. Artech Welders' EBW solutions are designed for efficiency and reliability, meeting the demanding requirements of industries such as aerospace, automotive, and medical device manufacturing.



Electron Beam Welding Specifications

Electron Gun Capacity 60 kV, 4 kW	Work Chamber size 460 mm x 480 mm x 560 mm	Manipulator : An XY coordination table of 150 x 150 mm is mounted in the chamber with a demountable type rotary table with vertical and horizontal axes.
Electron gun vacuum 1 x 10⁻⁶ mbar	Chamber vacuum 5 x 10⁻⁶ mbar.	

Advantages of EBW

High weld speed	High weld penetration	Narrow weld bead	Low heat input and distortion	Low heat affected zone
Reactive materials can be welded	Refractory materials can be welded	Thick to thin materials can be welded	Dissimilar materials can be welded	Filler material is not needed.

Materials weldable by EBW

- All conventional weldable materials
- Titanium
- Molybdenum
- Zirconium
- Tantalum
- Niobium
- Super alloys
- Dissimilar metals

Our Customers



Artech Welders Private Limited

📍 No. A-24/1, H-Block, MIDC, Pimpri, Pune, Maharashtra 411 018, India. +91

☎ 9822 069 212

✉ subhash@artechwelders.com 🌐 www.artechwelders.com

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