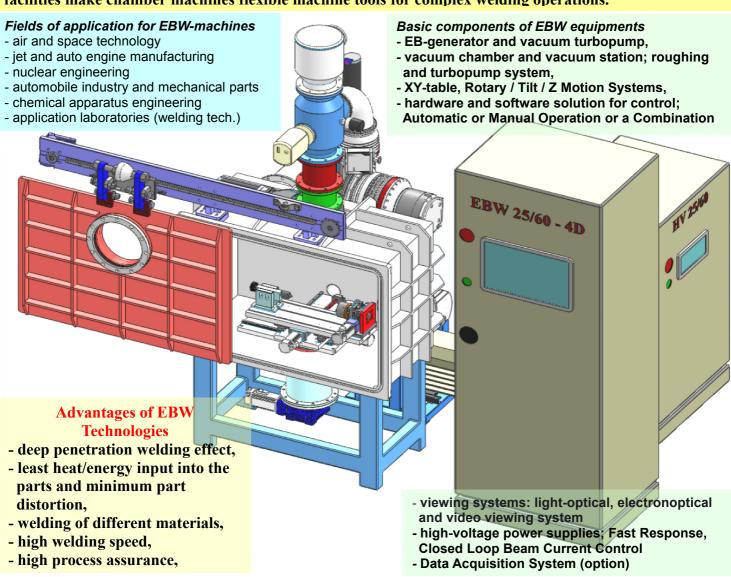
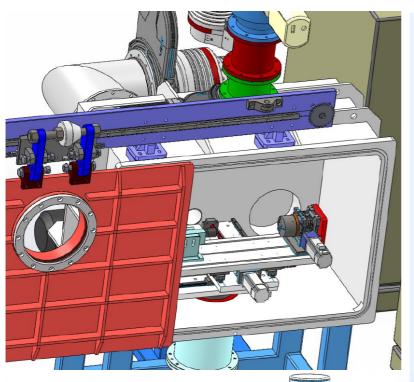


EBW 25/60 - 4D equipments are a universal machines for electron beam technology. The mechanical and electrical components are made up of a system of modules and can, therefore, be easily adapted to the various processing requirements. A high operating convenience and the great selection of additional facilities make chamber machines flexible machine tools for complex welding operations.



ADVTECH not only advises you regarding a suitable electron beam machine type, but can suggest entire system concepts, and develop solutions for integrating the system in the production chain. The design of an electron beam system is based on the manufacturing requirements. Smart solutions for securing and moving the work pieces contribute decisively to optimizing cycle time.

1



Main Technical Parameters

- vacuum chamber dimensions (mm)

Width Lenght Height 1000 - 2000 800 - 1600 800 - 2000

- ultimate pressure;

- in vacuum chamber: 5x10⁻⁷ mbar

1x10⁻⁸ mbar - in eb - gun;

- high-voltage generators: up to 60 kV

- beam power of the systems: 1 - 25 kW

- stability of accelerating voltage and welding current: 0.5 %

- beam deflection angle using XY electromagnetic coil;

Static

 $-\pm 3^{\circ}$ Dinamic

- beam spot diameter;

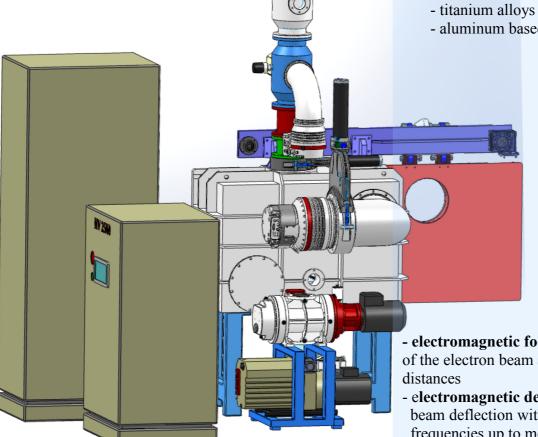
at 250 mm working distance = 0.4 mmat 600 mm working distance = 0.6 mm

- Maximal thickness of materials penetration, (mm)

- steel 70

105

- aluminum based alloys 135



- electromagnetic focusing lens - precise focusing of the electron beam also for various working

- electromagnetic deflection system - universal beam deflection with DC and AC current with frequencies up to more than 100 kHz.

SC Advanced Technologies Trade SRL

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