

INNOVATIVE COST – EFFICIENT TECHNOLOGIES AND EQUIPMENT FOR ELECTRON – BEAM WELDING (EBW)

EBW EXPERTS AND MANUFACTURERS SINCE 50s XX CENTURY



**OUR ELECTRON – BEAM WELDING
EQUIPMENT AND TECHNOLOGIES ARE THE
BEST FOR THE FOLLOWING AIRSPACE
APPLICATIONS**

Blades, Rotors, Vanes, Nozzles,
Cases, Combustors, Air Frames etc.

We Are Leader In

Developing of High stability EBW equipment with special electron tube flashless system;

Defect-free closing of circumferential welds on the steel 250 mm thickness;

Real time Windows® NT PC-based EB welding control;

Real time automatic seam tracking system.

Our Main Activities

R&D of EBW technology and equipment for aerospace, power engineering, high pressure vessels, car and ship building, sensor and electronics industries etc. Thickness of welded materials from 0.05 mm up to 250 mm for steels, 400 mm for Ti- and Al-alloys

Development and manufacturing of the new and refurbished EBW machines, their introduction into operation, training of the attending personnel

Our Typical Products

Machines with vacuum chamber volume from 0.1m³ up to 80 m³. These vacuum chambers are welded by electron beam in our 12×7×5 m machine

Machines for EBW in local vacuum of cut-in elements, longitudinal and circumferential butts of the large diameter shells

Cycle type machines for welding of gear components

Machines for bimetallic saw blades strip continuous EBW

Continuous trimetallic stripwelder (St.St + Invar +St.St)

Real time automatic seam tracking system

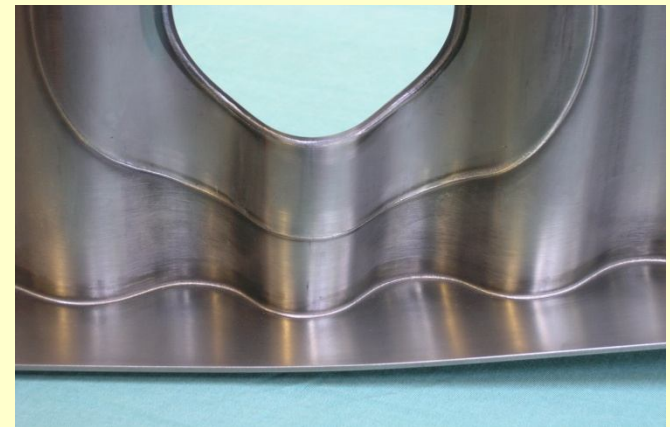
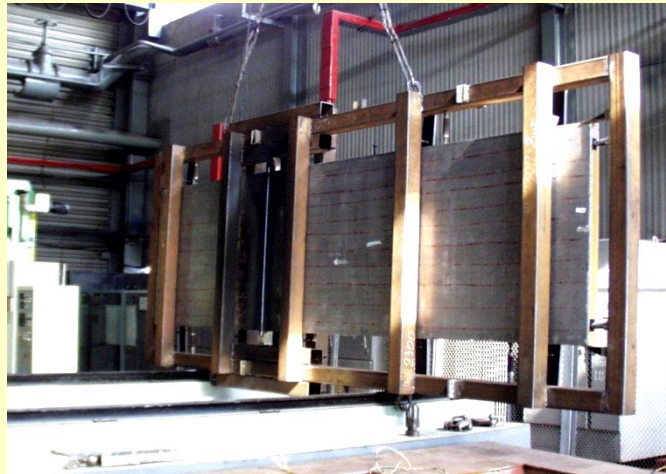
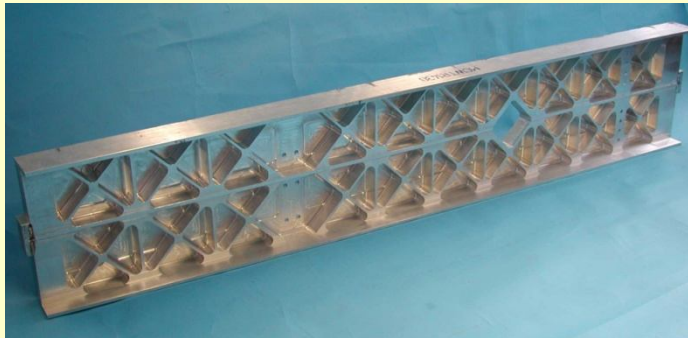
Electron beam analyzer (as "Diabeam")

EBW guns and power supplies with flashless system:

60 kV - 3, 15, 30 and 60 kW

120 kV -6 and 120 kW

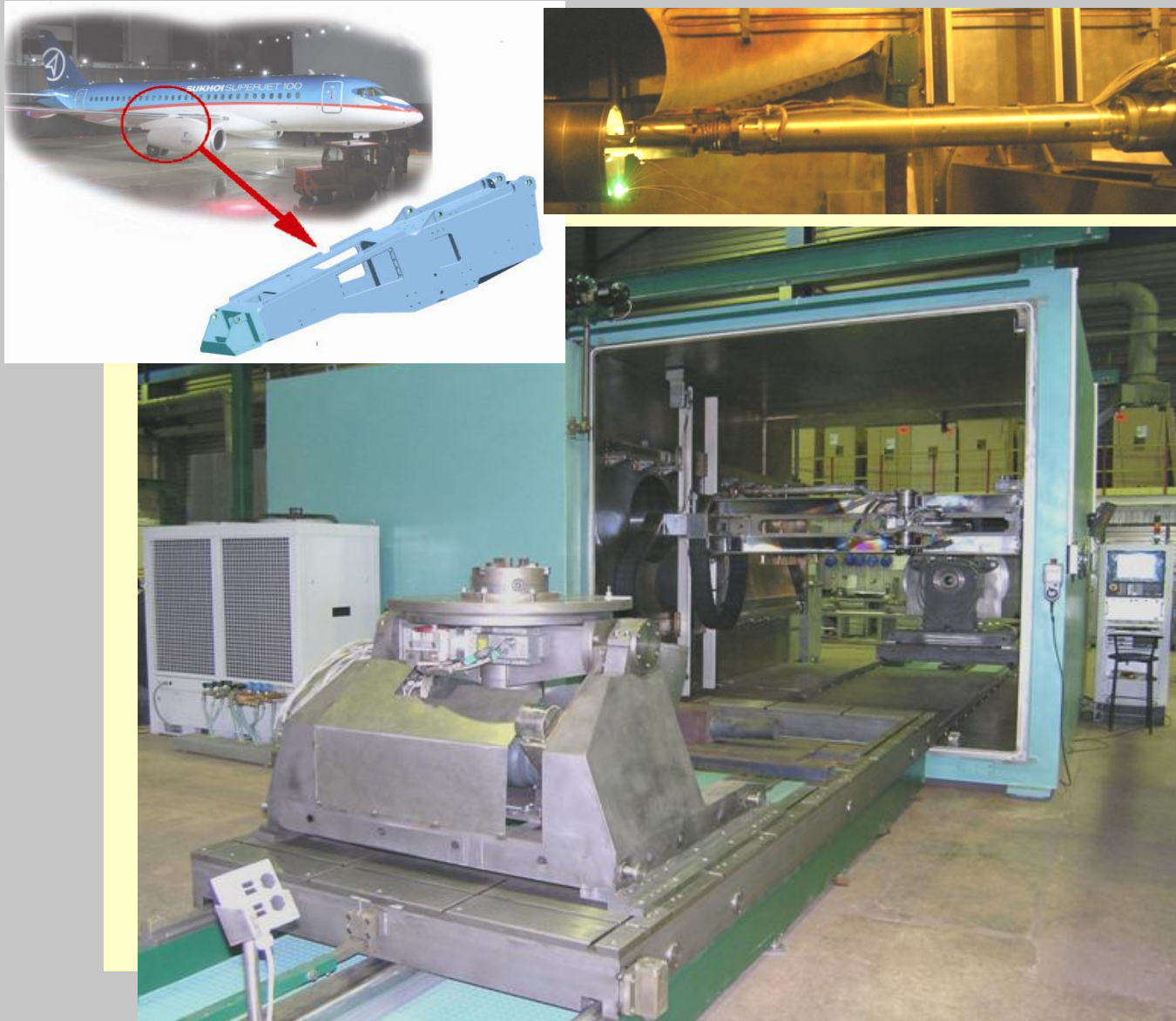
Example Of Our Projects: Electron – Beam Welding Of Details Of AIRBUS And BOEING Aircraft



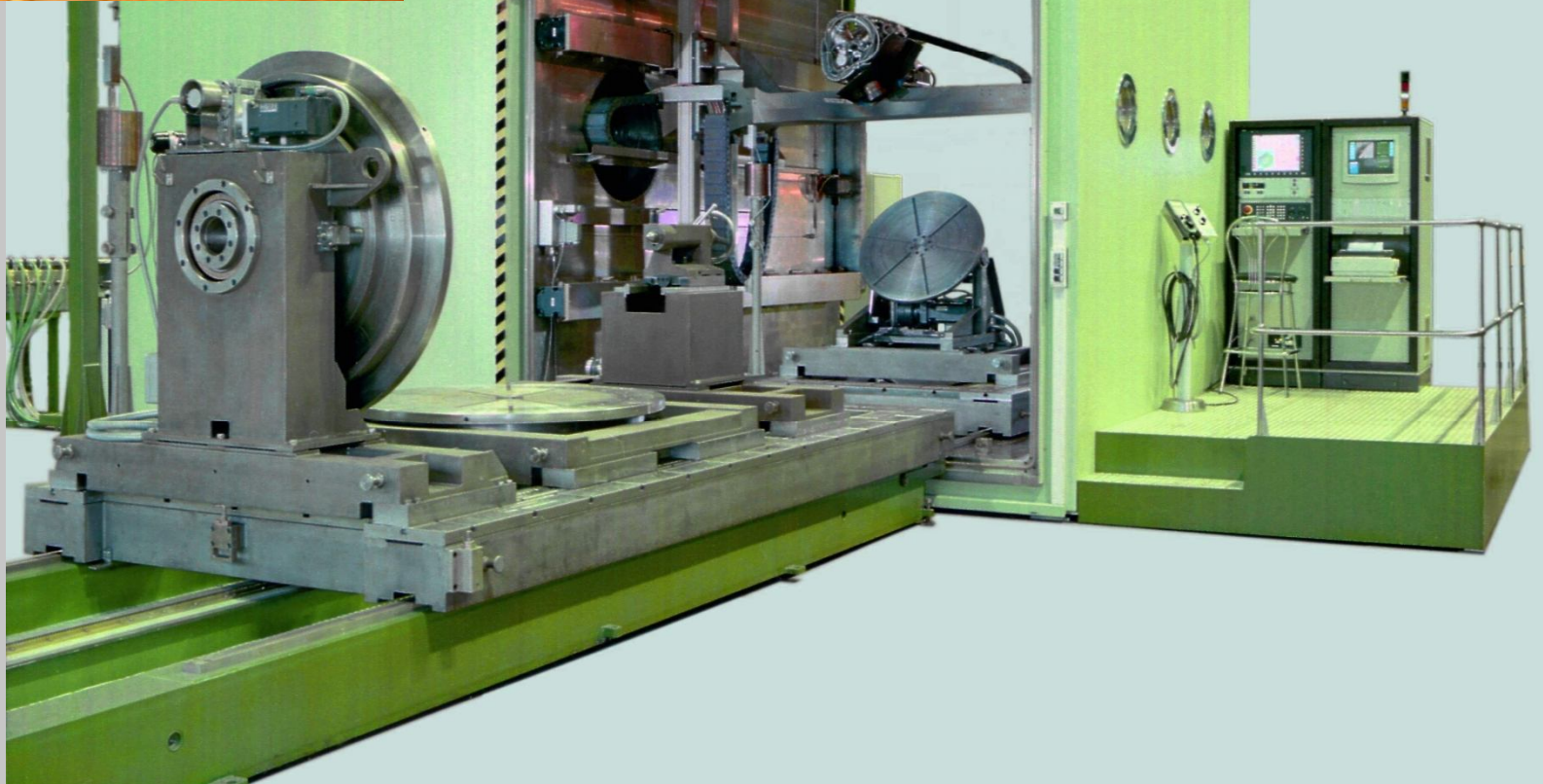
Beams of aircraft's wing. Alloy 7085

Beams of fuselage. Alloy BT6

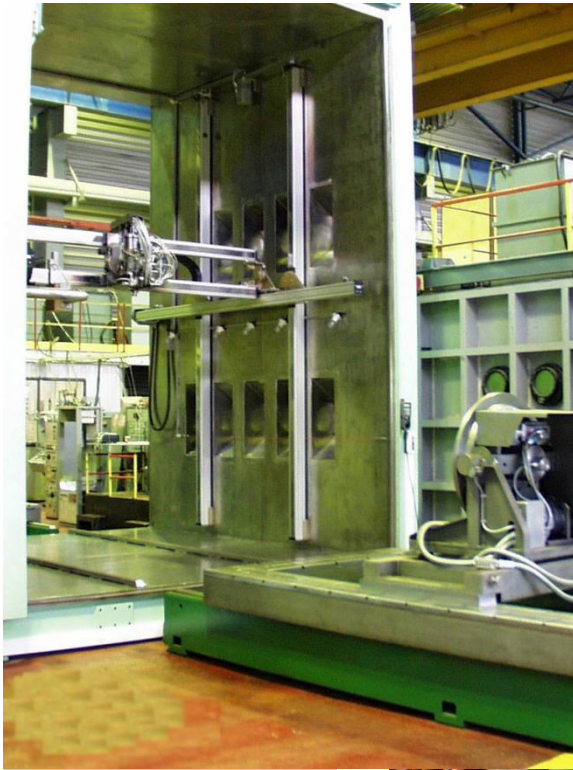
Example Of Our-Production EBW Equipment For Aircraft Construction



**Example Of Our Projects: EBW KL-
115 Machine For GKN Aerospace
Chem-tronics Inc., USA**



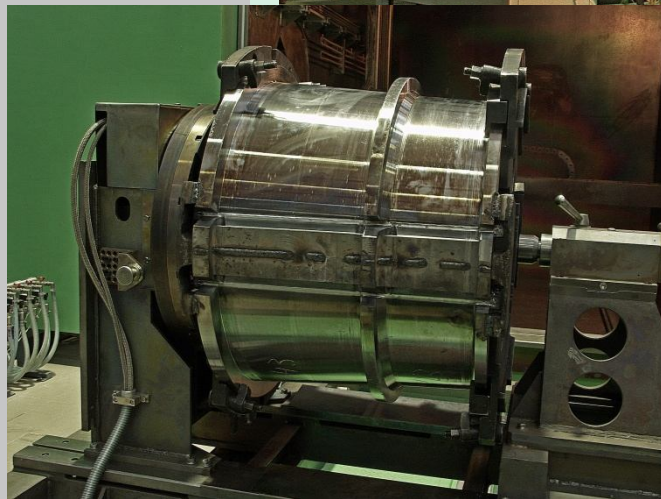
**Example Of Our Projects: EBW Macine KL-118
For GKN Aerospace Chem-tronics Inc., USA**



Example Of Our Projects: EBW KL-132 Machine For Thiruvanthapuram Hindustan Aeronautics Ltd., India



Example Of Our-Production Machine For EBW of Gas-Turbine Engines, KL 160 Type



LCOME FOR COOPERATION

Dear Partners,

Please let us know your technical task.

Our team of professionals will check your inquiry carefully and offer you the best quality\price solution based on our EBW technology or equipment.

We are in the electron-beam welding industry since 1950s and have great experience. You can rely on us. Let's make business together.