

KNOW-HOW FOR ALL INDUSTRIES

Our EB technology is solving problems worldwide in numerous industries and technologies, e.g.

- RENEWAL ENERGY PRODUCTION
- AUTOMOTIVE INDUSTRY
- AERO-ENGINE AND AERO-SPACE
- SHIP-BUILDING
- COMMERCIAL VEHICLES
- MEDICAL TECHNOLOGY
- DEFENCE
- RESEARCH AND DEVELOPMENT



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WORLDWIDE SALES AND SERVICE



GBT\_2015\_08\_EN



THE INNOVATORS OF THE ELECTRON BEAM  
WELDING · DRILLING · SURFACE TREATMENT



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Members of  
Global Beam Technologies AG



# THE INNOVATORS OF THE ELECTRON BEAM



## IT'S ABOUT WORLDWIDE CONNECTIONS

As a global medium-sized company, we are a leading developer and manufacturer of electron beam machines for welding, drilling and surface treatment.

Customers worldwide, from the automotive, aerospace, and turbomachinery industries to branches of mechanical & electrical engineering and research & development profit from our reliable, innovative technologies, know-how and years of experience as electron beam specialists.

## WE DEVELOP AND DELIVER WORLDWIDE

- **LARGE CHAMBER MACHINES**
- **SPECIAL CHAMBER MACHINES**
- **SINGLE-PURPOSE AND CUSTOMISED MACHINES**
- **SMALL CHAMBER MACHINES**
- **CYCLE TYPE MACHINES**
- **LOAD-LOCK CYCLE TYPE MACHINES**
- **NONVAC MACHINES**
- **AUTOMATED PRODUCTION LINES**
- **MODULES FOR AUTOMISATION**
- **PERFORATION MACHINES**
- **CONTINUOUS WELDING MACHINES**



## THE ADVANTAGES OF THE EB-TECHNOLOGY

### PRECISION AND REPRODUCIBILITY

The stability of the small beam diameter in the focus is the basis for high geometrical precision. Nearly all work parameters are controlled electronically and can be simply adjusted to changed tasks. Outstanding reproducibility of the application results is the effect of these characteristics.

### COST-EFFECTIVENESS

The cost-effectiveness of beam technology is based on high efficiency, high working speeds, minimised energy transfer and the non-contact method.

### COST SAVINGS

- Increased choice of materials
- No need for reworking and corrections (minimum distortion)
- Integration in production lines
- Abdication of filler material and shielding gas
- New design and production planning methods enable improvements to existing products and the creation of new ones



## JOB-SHOP PRODUCTION: FROM PROTOTYPES TO SERIAL PRODUCTION

### RELIEVED FROM STRESS, WITH GROWTH IN EFFICIENCY

Our highly qualified machines and equally competent operating staff will deliver your products on time to the highest specification and quality. We will gladly absorb your production bottlenecks into our job-shop.



Quality and reliability are our bywords. As established and certified welding specialists we operate to AD 2000-Merkblatt HP 0 Technical rule, 2007-02: General principles of design, manufacture and associated tests. Above and beyond this, we adhere to many other operating procedures, for example DIN EN 1418: Welding personnel - Approval testing of welding operators for fusion welding and resistance weld setters for fully mechanised and automatic welding of metallic materials.