

N°1

pro beam

PRO-BEAM GROUP

World-Leading Electron Beam Technology



Standardization strategy electron beam equipment

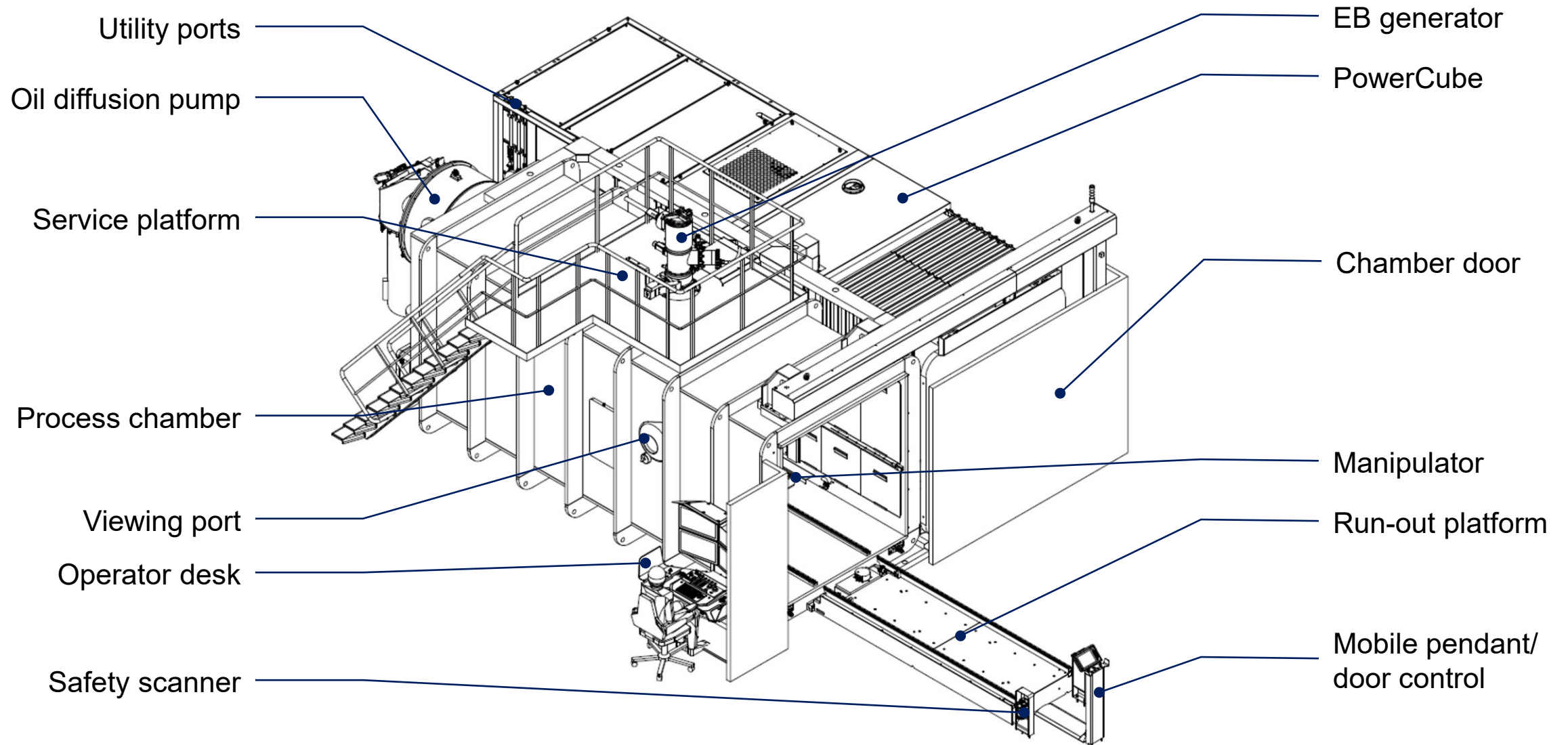
Uwe Clauß, Sales Manager Aerospace

pro-beam systems GmbH
September 2025

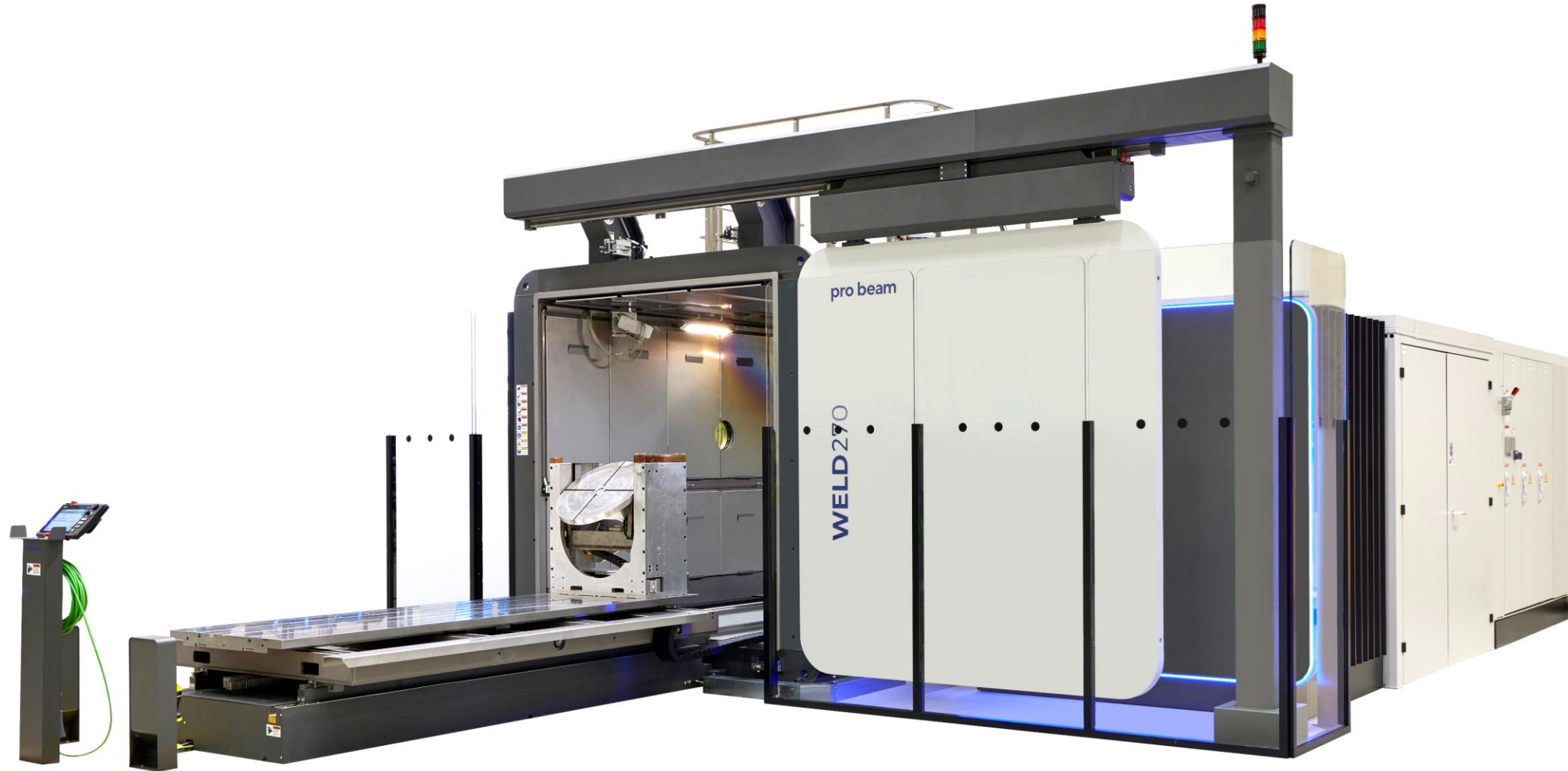
www.pro-beam.com

- applying concept used for EB components to EB machines
- reduce lead time of equipment
- reduce cost for material and optimize assembly/ build of equipment to enable competitive pricing
- product improvement with higher dedication to details and market/ customer feedback
- increase functionality and reliability of components (software)
- standardize training and equipment upgrade
- maintaining capability for customization is required

Example: EB welder WELD270









Additive EB machines EBM30S and WEBAM100



operated by pro-beam

EB welding machine EBM30S

pro beam



operated by pro-beam

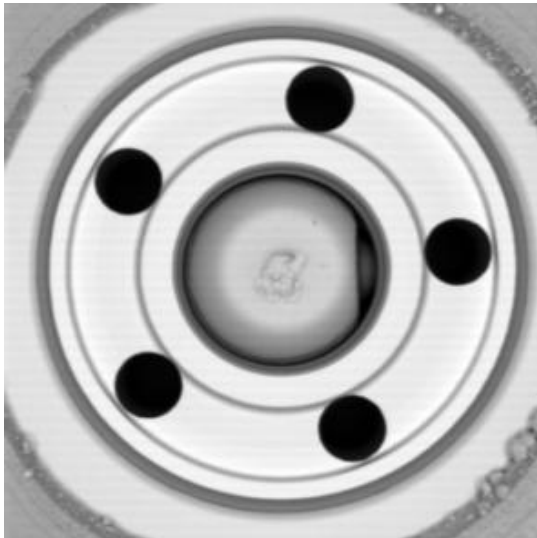
EB machine control system





pro-beam electron beam tools

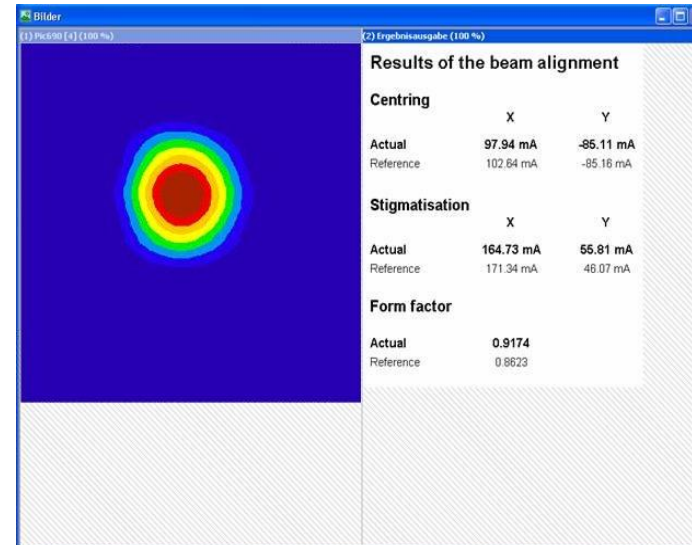
Electron–Optical Monitoring



Benefits:

Reflection free imaging, all areas are accessible, simplified positioning with reduced error rate

Automatic Beam Alignment



Benefits:

operator independent and optimum setup of the EB machine performance monitoring of the machine condition

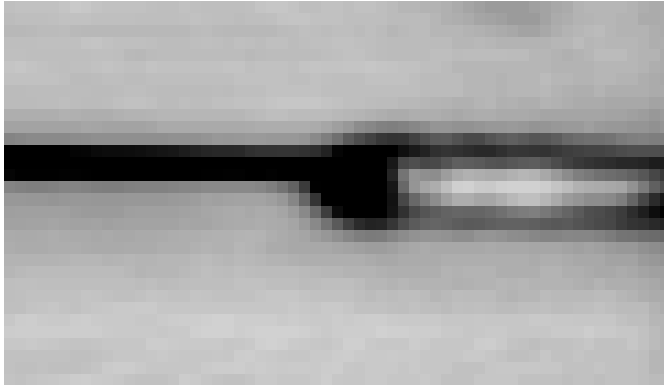
Scanning Like Welding



Benefits:

complex or sensitive welds welded at high quality, Reduce risk of scrapping of components (quality welds every time)

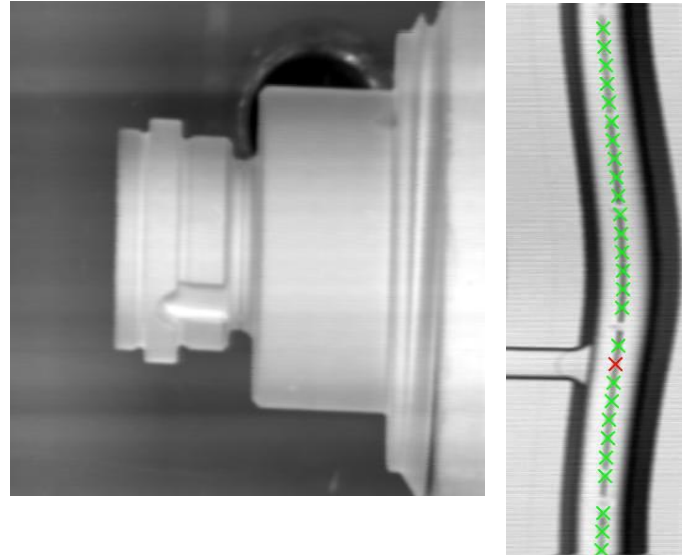
ELO- Online



Benefits:

reflexion free imaging, all areas are accessible, simplified positioning with reduced error rate

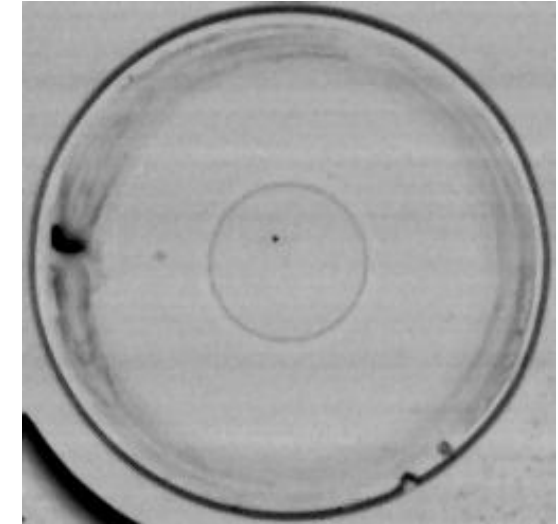
Automatic Seam Tracking



Benefits:

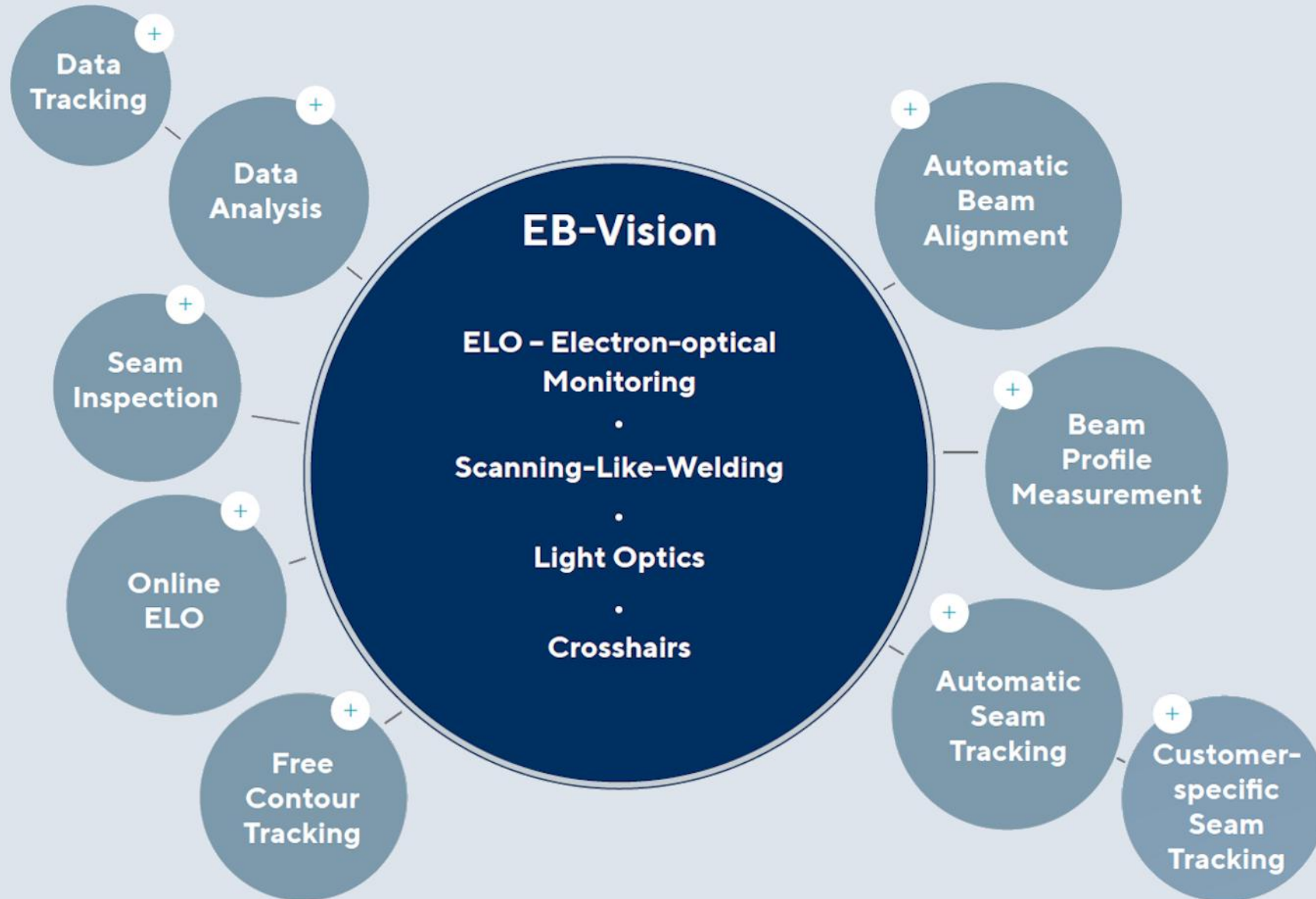
the control system can locate the joint position and guide the beam to the joint, process errors are visible

Post weld inspection



Benefits:

Evaluation of weld crown for defects and indications



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