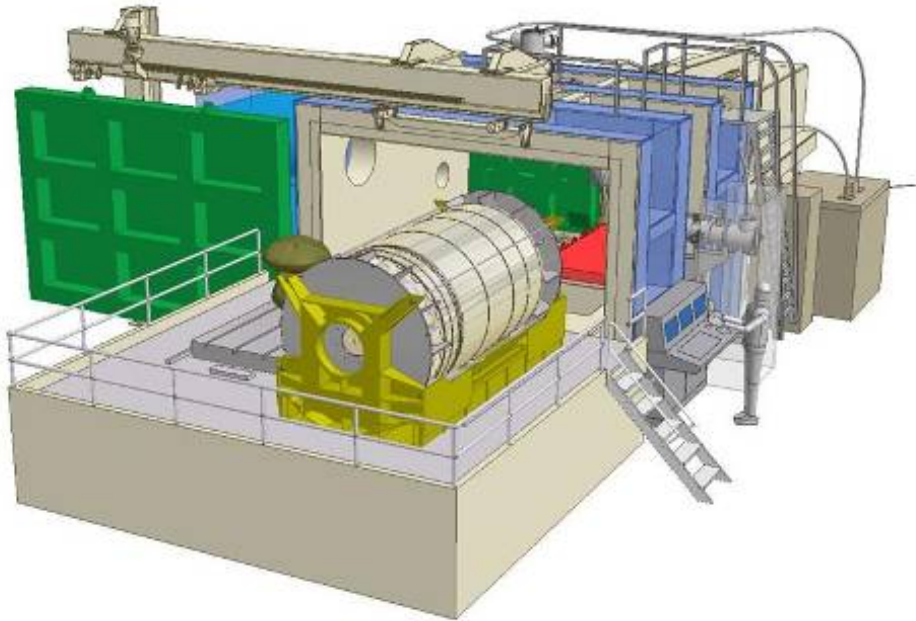


## Universal Chamber EB Machine type S450+120 EB2



### Application

The single chamber design allows for EB processing of a wide range of work pieces. When operating the machine, the process steps, such as workpiece change, chamber evacuation, electron beam processing, chamber ventilation and the next workpiece change, are performed in succession and within the time intervals that are technologically necessary. A special evacuation chamber allows evacuation of the satellite tanks independent from the working chamber.

Using the pro-beam EB generator a wide range of welding, brazing and surface applications can be process, including multi-beam technology, multi-focus technology and multi-process technology.

### Technical data

#### Chamber

Chamber volume	45 m <sup>3</sup>
Installation area	5.000 m <sup>2</sup>
Installation height	140 mm
Working space length	3.500 mm
Working space width	Ø 1.800 mm
Working space height	1.500 mm

#### Run-out platform

Length	4.850 mm
Width	5.450 mm

Height 1.200 mm

### X-Y coordinate table

Table length	4.200 mm
Table width	4.000 mm
Height over table	1.960 mm
Travel x (NC)	2.000 mm
Travel y (NC)	2.000 mm
speed range	1 - 100 mm/s
max. load coordinate table	5.000 kg

**Electron beam generator** pro-beam EB generator 80 .. 150 kV

### Vacuum

Partial vacuum	$\leq 2 \times 10^{-2}$ mbar
Evacuation time	15 min
Hard vacuum	$\leq 7 \times 10^{-4}$ mbar
Evacuation time	$\leq 20$ min

### Media

Supply voltage	3 x 400V, $\pm 10\%$ , 50Hz; TN-S System
Pressurized air	6 bar $\pm 10\%$
Cooling water	according to VGB-R 455 P

### Acceptance criteria

acceptance test according DIN 14744, including X-ray test, sample processing and acceptance certificate

## Accessories

Flat palette  
Manipulation devices

## Options:

Generator sliding device  
seperate PLC control panel  
2-hand control  
Polycold

Additional features and special design are available on request.