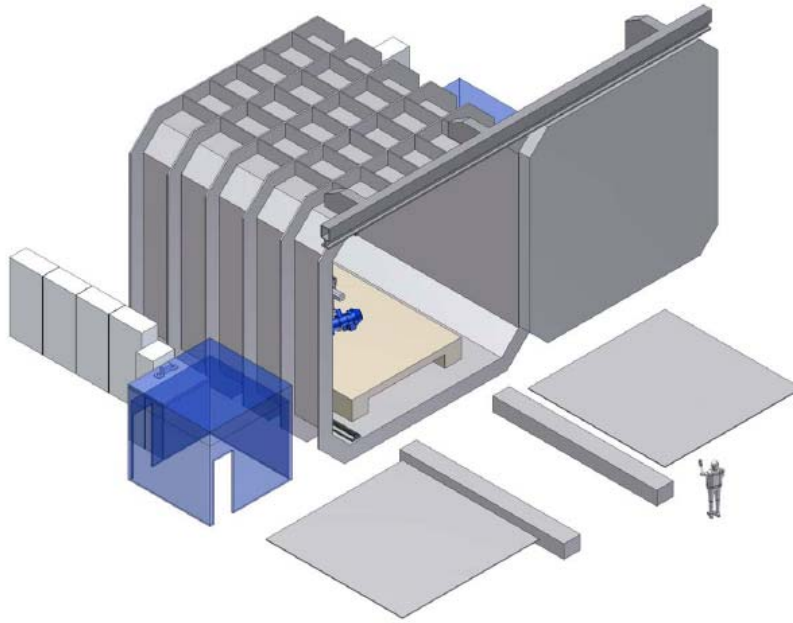


## Universal Chamber EB Machine type K3000



### Application

Designed for EB processing of large components a wide range of components and applications can be processed with the machine. Due to the internal generator concept processing of large and heavy parts is feasible. 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.

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	320 m <sup>3</sup>
Installation area	378 m <sup>2</sup>
Installation height	8.500 mm
Working space length	5.500 mm
Working space width	4.500 mm
Working space height	6.000 mm

#### X-Y manipulation

Travel x (NC)	5.500 mm
Travel y (NC)	4.500 mm

speed range 0.5 - 50 mm/s  
 max. load coordinate table 50.000 kg

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

**Vacuum**

Partial vacuum  $\leq 2 \times 10^{-2}$  mbar  
 Evacuation time 30 min  
 Hard vacuum  $\leq 7 \times 10^{-3}$  mbar  
 Evacuation time  $\leq 50$  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 accoring DIN 14744, including X-ray test, sample processing and acceptance certificate

**Accessories**

Flat palete  
 Manipulation devices

**Options:**

Generator sliding device  
 Service door  
 seperate PLC control panel  
 2-hand control  
 Chamber camera with monitor  
 Polycold

Additional features and special design are available on request.