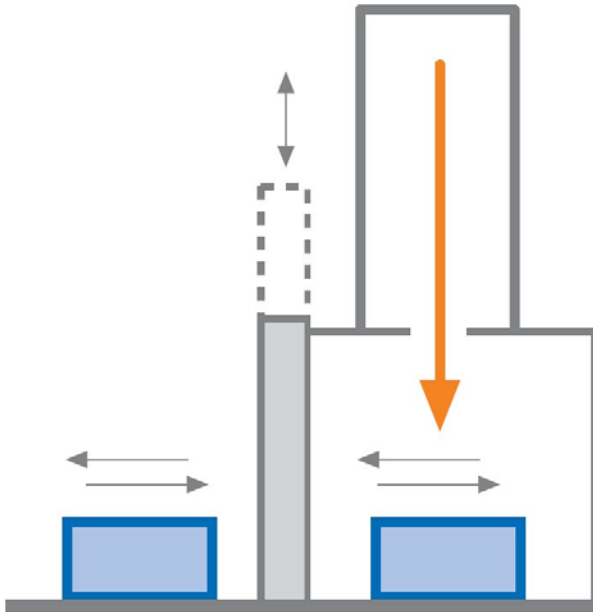


Universal Chamber EB Machine type cell 1850



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.

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	1.08 m ³
Installation area	10 m ²
Installation height	3.000 mm
Working space length	1.850 mm
Working space width	400 mm
Working space height	457 mm

X-Y manipulation

Travel x (NC)	2.083 mm
Travel y (NC)	400 mm
speed range	1 - 100 mm/s
max. load coordinate table	400 kg

Electron beam generator

pro-beam EB generator 60 kV

Vacuum

Partial vacuum	$\leq 5 \times 10^{-3}$ mbar
Evacuation time	3 min
Hard vacuum	$\leq 7 \times 10^{-4}$ mbar
Evacuation time	≤ 5 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 to DIN 14744, including X-ray test, sample processing and acceptance certificate

Accessories

Flat palette
Manipulation devices

Options:

Generator sliding device
separate PLC control panel
2-hand control

Additional features and special design are available on request.