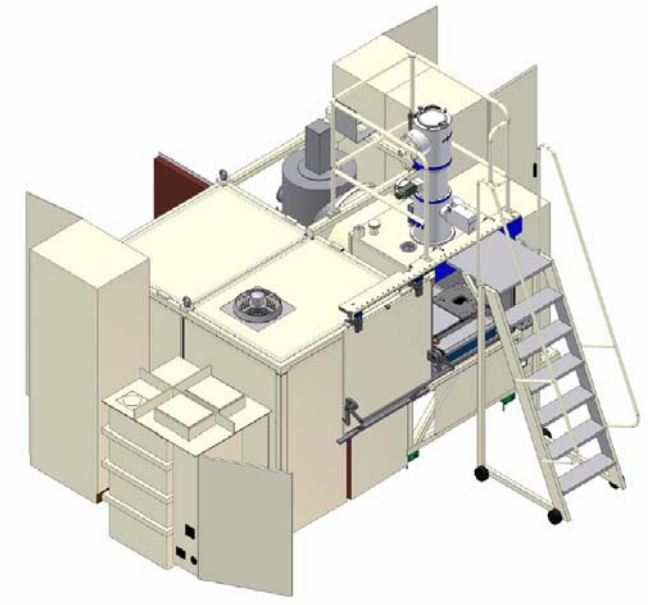
Universal Chamber EB Machine type K7



Application

Designed as a compact machine the K7 is used in prototype and small-series production as well as in the laboratory and development sectors. 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	0.7	m^3
Installation area	35	m^2
Installation height	3.700	mm
Working space length	400	mm
Working space width	400	mm
Working space height	550	mm
Run-out platform		
Lenght	550	mm
Width	500	mm
Height	1.000	mm

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Chamber Machines

pro beam SYS

X-Y coordinate table

Travel x (NC)	400	mm
Travel y (NC)	400	mm
speed range	1 - 100	mm/s
max. load coordinate table	150	kg

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

Vacuum

Partial vacuum	≤ 2 x 10^{-2}	mbar
Evacuation time	2.5	min
Hard vacuum	≤ 7 x 10^{-4}	mbar
Evacuation time	≤ 4	min

Media

Supply voltage	3 x 400V, ± 10%, 50Hz; TN-S System
Pressurized air	6 bar ± 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
seperate PLC control panel
2-hand control

Additional features and special design are available on request.

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