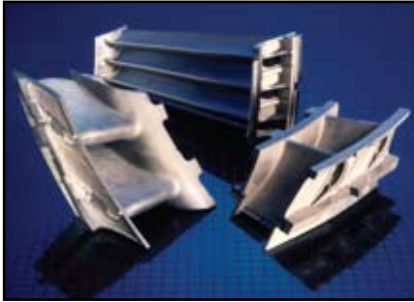


# 150kV Electron Beam Welders

150 kV machines are used extensively in the aero engine, aerospace and power generation industries. With 150 kV systems it is possible to weld at distances up to 1.5 m.



Nozzle guide vanes



Compressor rotors



Steam turbine diaphragms

## Standard 150kV Machines



XW 150:7.5



XW 150:15



XW 150:15

Standard chamber sizes include the following but are not limited to

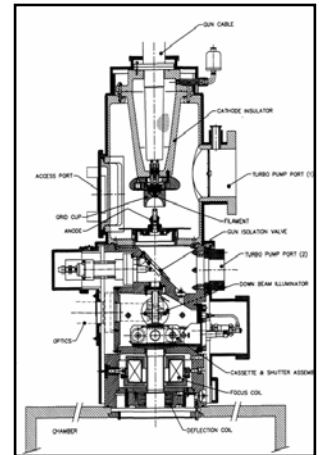
Chamber Sizes					
Length [mm] "X"	1400	2000	6000	4000	5000
Width [mm] "Y"	1000	2000	2100	3000	3000
Height [mm] "Z"	1100	2000	2400	3000	3000
Volume [cubic metres]	1.5	8	30	36	45
XY table size [mm] "X" x "Y"	660 x 475	900 x 900	3000 x 1180	2600 x 1200	3600 x 1200
XY table stroke [mm] "X" x "Y"	610 x 480	1000 x 1000	2800 x 700	1200 x 1000	2200 x 1000
XY table speed [mm/s] "X & "Y"	50	50	33	33	33
Maximum weight including manipulator [kg]	500	2000	3000	3800	4000
Height above the table [mm]	720	1250	1650	2200	2600

Note: Other chamber sizes are available on request

# 150kV Electron Beam Welders

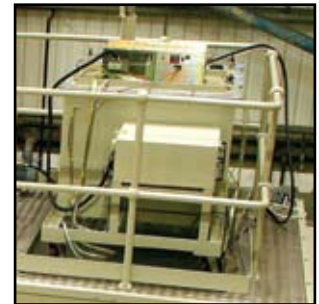
## Electron Emitter Column

- Up to 30 kW beam power at 150 kV
- Twin turbomolecular pumping system
- Long filament life, easy and quick to change



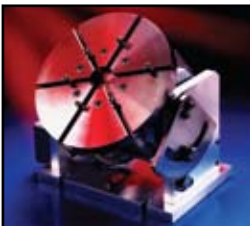
## Power Supplies

- Switch mode IGBT technology operating at 20 kHz frequency
- High stability output with low ripple
- Low stored energy with automatic shutdown in the event of over voltage
- Powers up to 30 kW with 6 kW, 8 kW, 15 kW as standard



## Tooling

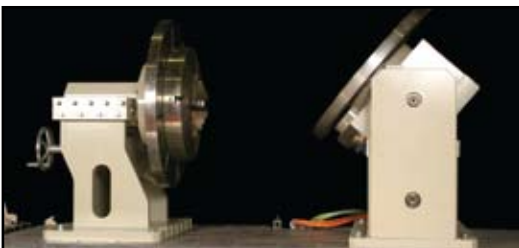
A comprehensive range of tooling and fixtures is available including:



Rotary Tilt



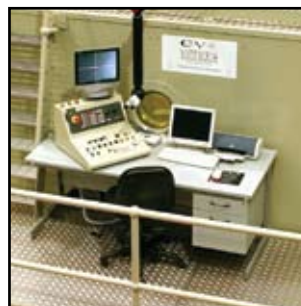
Carousel Tooling



## Control System

Typical desk mounted PC based control system

- Colour monitors for PC and CCTV
- CNC controls
- Data Logging and printer/plotter options
- Ethernet connection enables network connection



**CVE**  
CAMBRIDGE  
VACUUM  
ENGINEERING

Pembroke Avenue, Denny Industrial Centre, Waterbeach, Cambridge. CB25 9QX United Kingdom  
Tel: +44 (0)1223 863 481 Fax: +44 (0)1223 862 812  
Email: sales@camvaceng.com Web: www.camvaceng.com