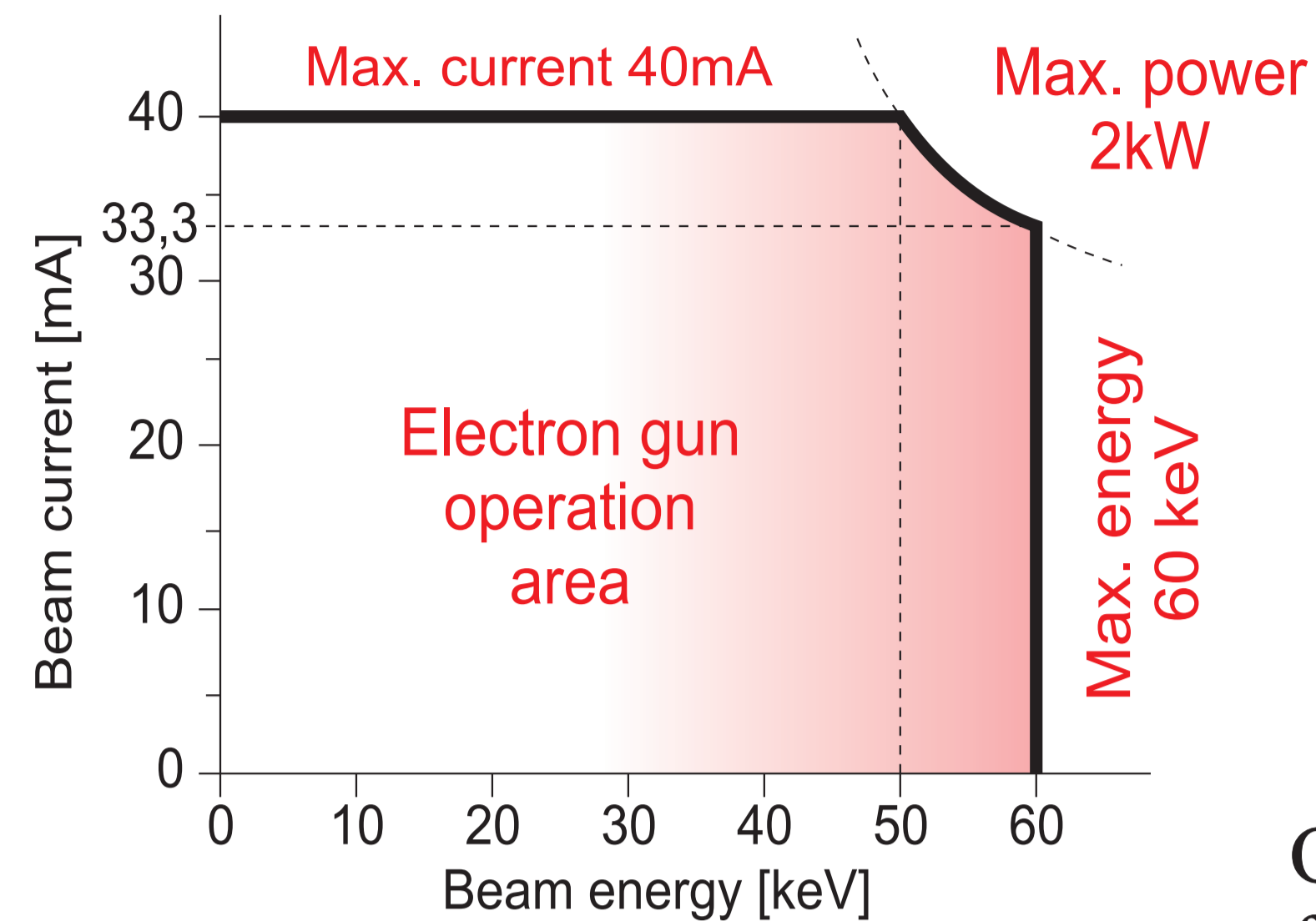
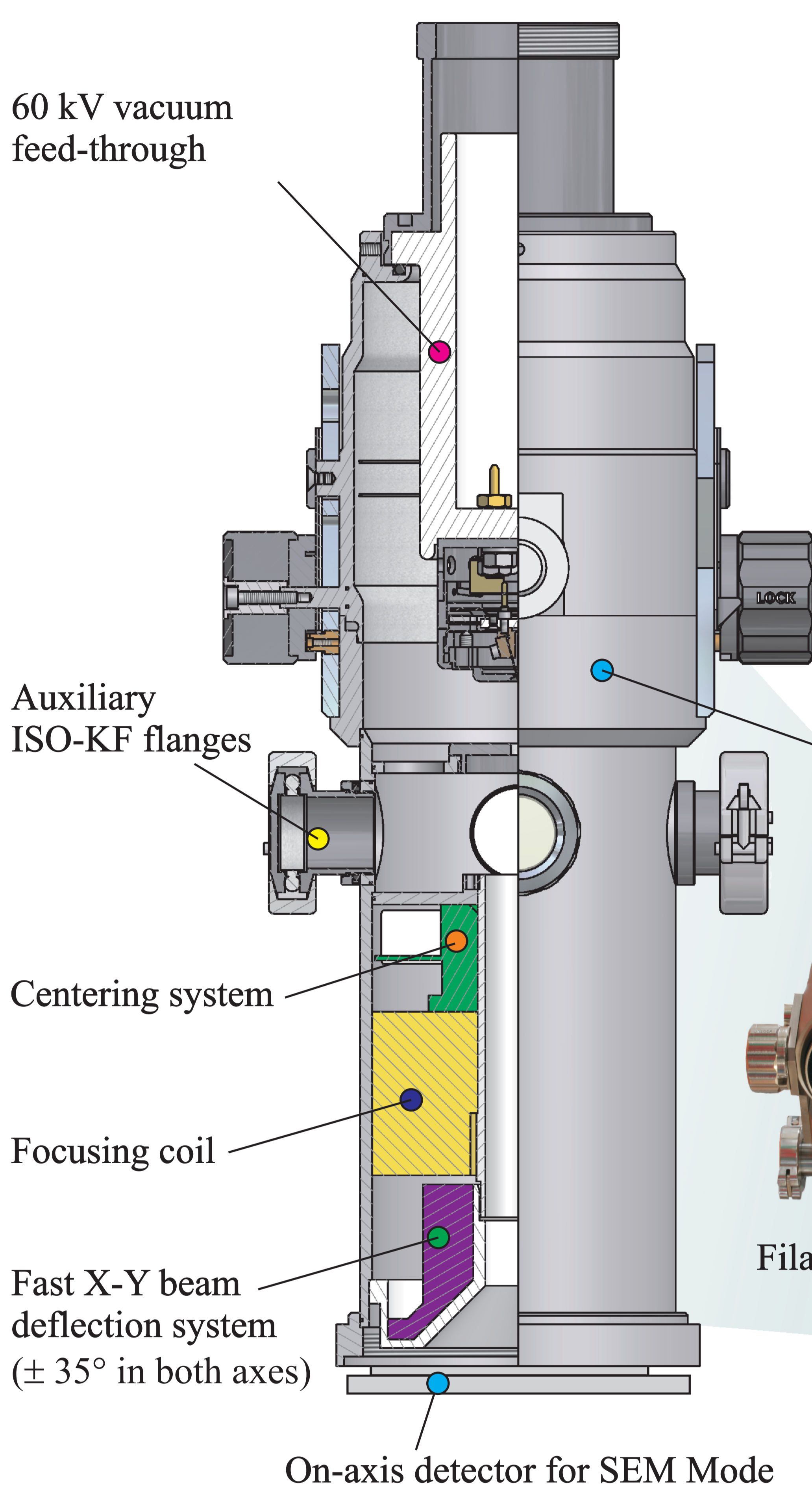


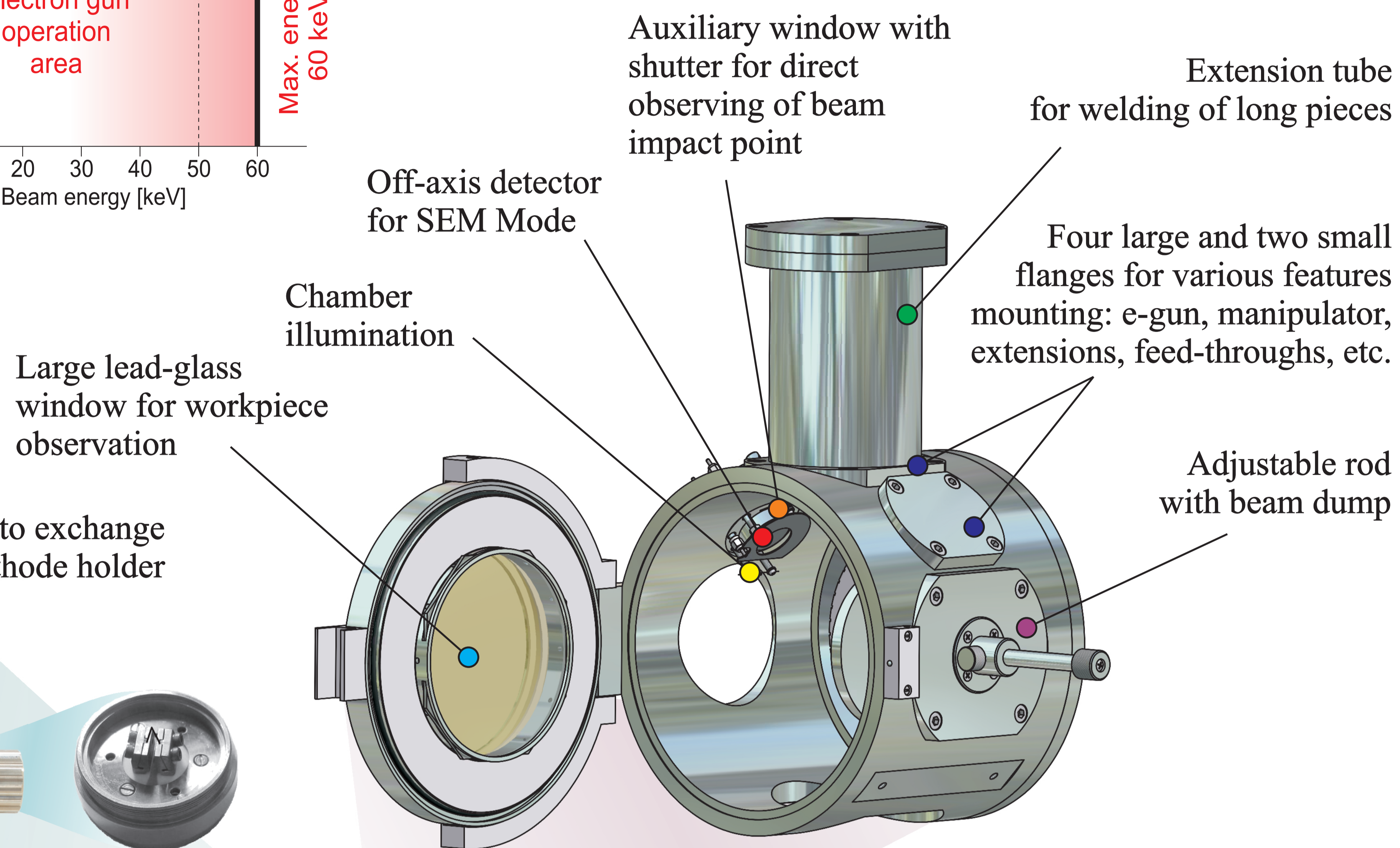
Desktop EB Welder for prototyping and small-lot production

Electron Gun



Working Chamber

- Chamber inner dimensions: $\varnothing 235$ mm, depth 155 mm
- Chamber volume: 6.7 litres (total pumped volume 14 litres)



Filament - tungsten wire $\varnothing 0.15$ mm

SEM Imaging system

- 2 detectors
 - off-axis - topographical contrast
 - on-axis - deep holes observations and material contrast
- Variable zoom

Vacuum System

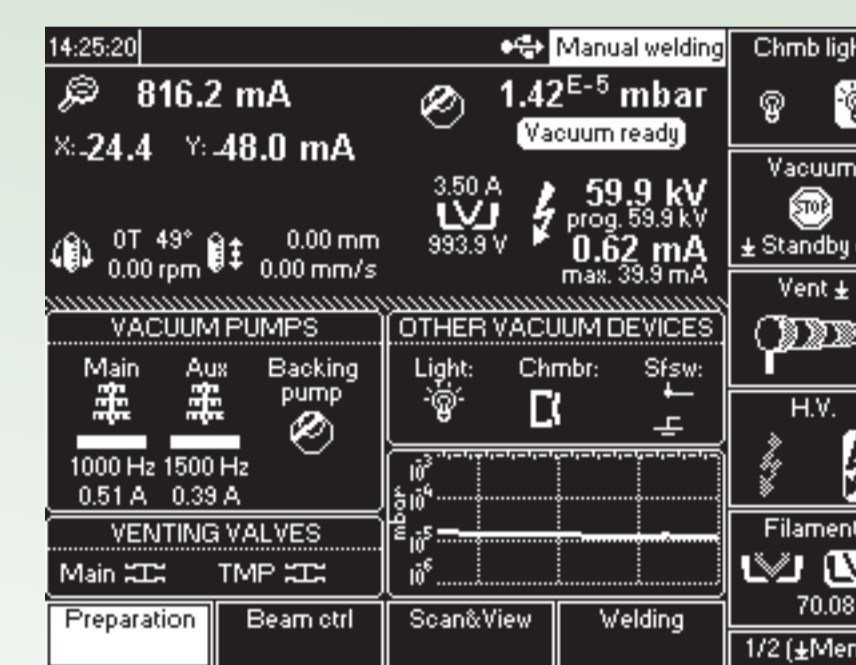
- Versatile and easy to use - two buttons control
- Pumping time: 2 min max.
- Venting time: 30 s max.

2-axes Manipulator

- Z-shift - total travel 120 mm (60 mm motorised)
- Rotation - continuous speed regulation 0 -32 RPM
- Optical encoder positioning

Control Panel

- Graphic LCD
- Intuitive GUI
- User programmable controls
- Full speed USB 2.0 for PC control



Other features

- AC input: 230 V ~ 50 Hz/16 A
- 2 cases with electronics
- Low space consuming
- Variable workbench arrangement

Applications

Precise electron beam welding



Mini membrane (5 mm)



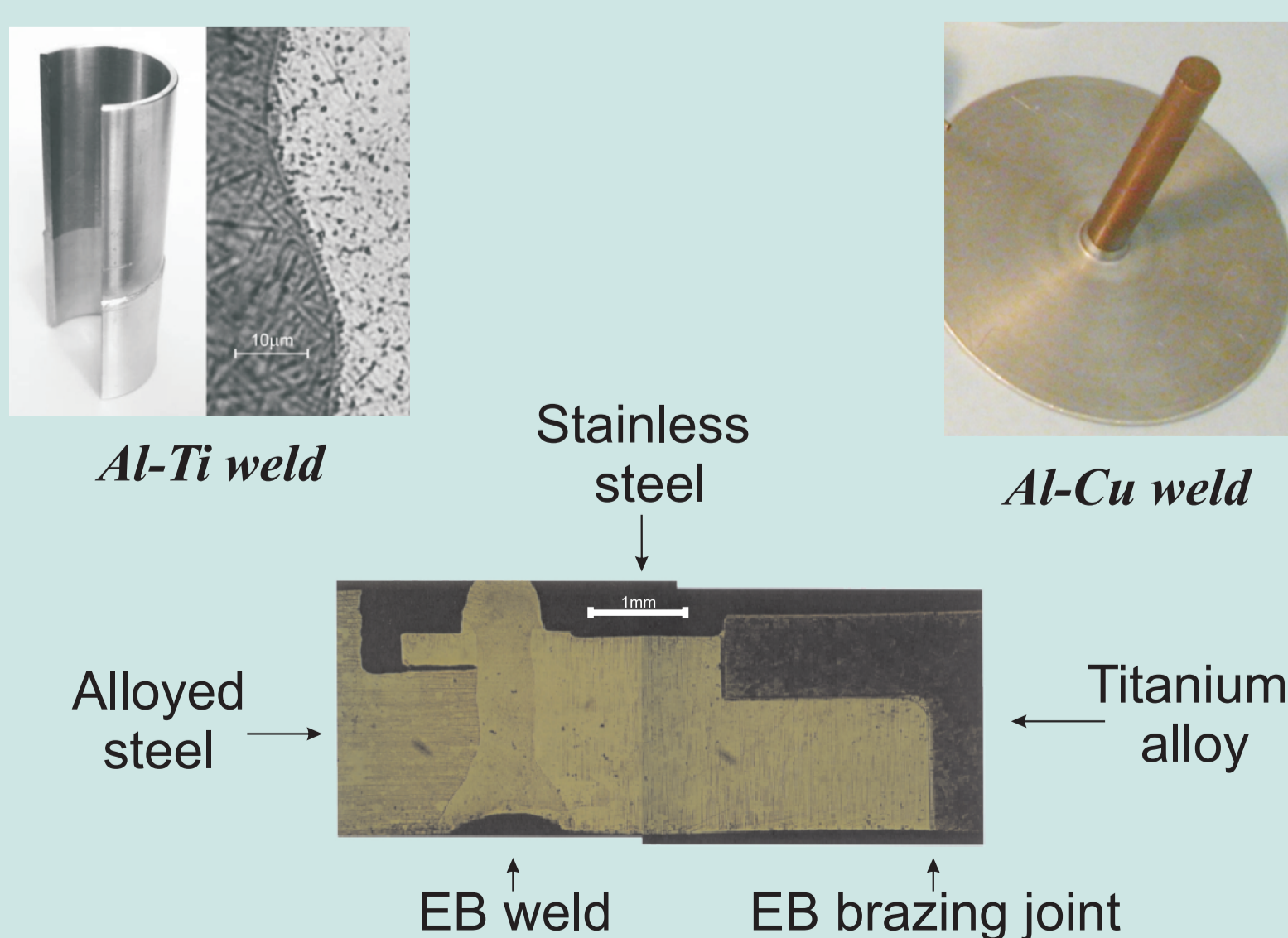
Membrane bellows

UHV



LN2 cryostat - 8 welds

Dissimilar metals joining



Aerospace industry



Gear from aircraft engine

Instrumentation



Pirani vacuum gauge