

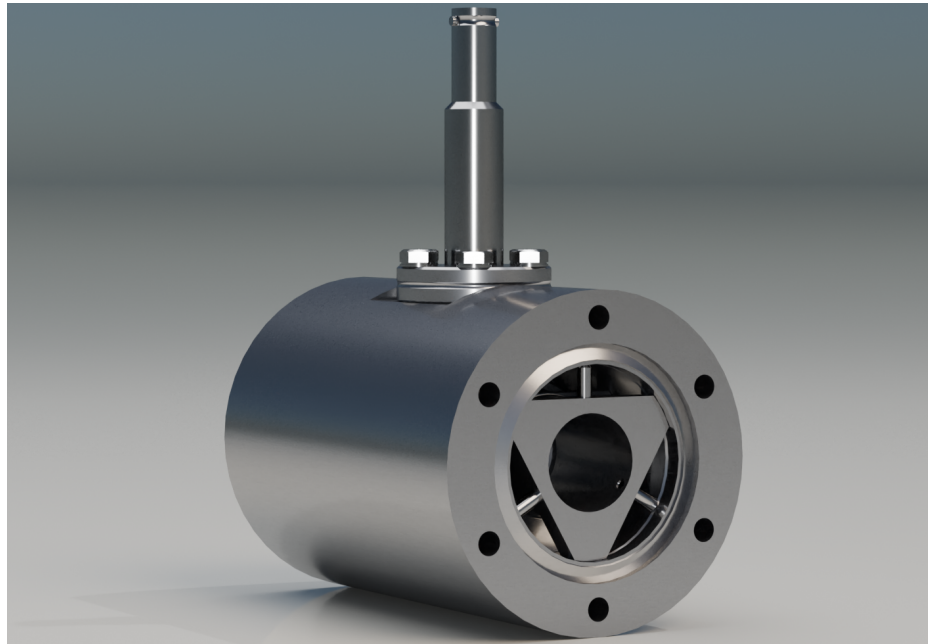
## Einzel Lens CF040, central mount, stainless steel

921-S7-09-00011-A-01

Electrostatic lenses are ion-optical elements used to guide and focus charged particle beams.

One of the most prominent representative is an Einzel lens which consists of three cylindrical electrodes. Focusing of the beam is achieved by applying a high voltage to the central electrode. Passing an Einzel lens does not change the energy of the charged particles.

Electrostatic lenses can be used in broad pressure ranges, down to ultra-high vacuum conditions.



*Einzel lens CF040, central mount, stainless steel.*

*further reading:*

- <https://dis-germany.com/product-categories/charged-particle-beam-optics/>

**Special Features:**

- symmetrical design of electrode assembly
- stainless steel housing
- DN040 CF beamline interface flanges
- 1st and 3rd electrode grounded
- DN16 CF 10 kV SHV feedthrough connected to electrode
- 20 Millimeter electrode inner diameter
- Overall length 100 mm

**Optional Supplementing Devices:**

- power supply for the lens voltage
- high voltage cable with 10 kV SHV connector

Please do not hesitate to contact us for additional support.



**Address**

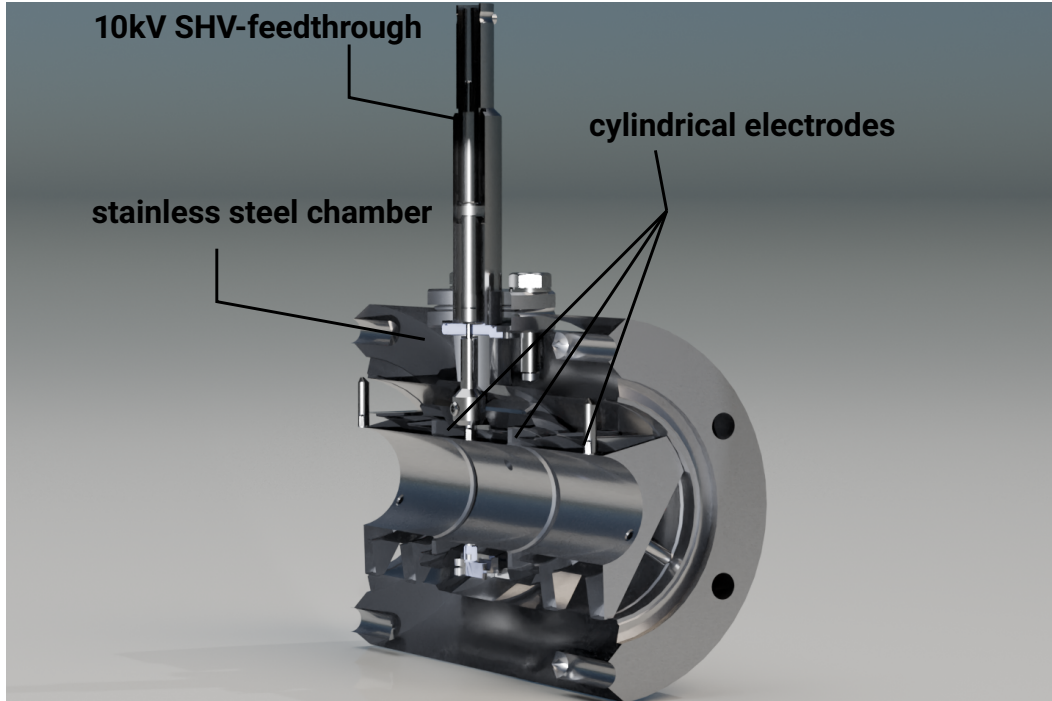
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Cross section of the Einzel lens CF 040, central mount, stainless steel

### TECHNICAL DATA

maximum applicable lens voltage	±10 kV
pressure operating range	down to $1 \times 10^{-10}$ mbar
beamline interface flange	2 x DN040 CF
high voltage feedthrough	DN16 CF
connectors	10 kV SHV connector
maximum beam width	20 mm
maximum bakeout temperature	100 °C
flange to flange distance	100 mm
length of lens system	94 mm
approx. box size (length x width x height)	100 mm x 70 mm x 128 mm



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