D.I.S

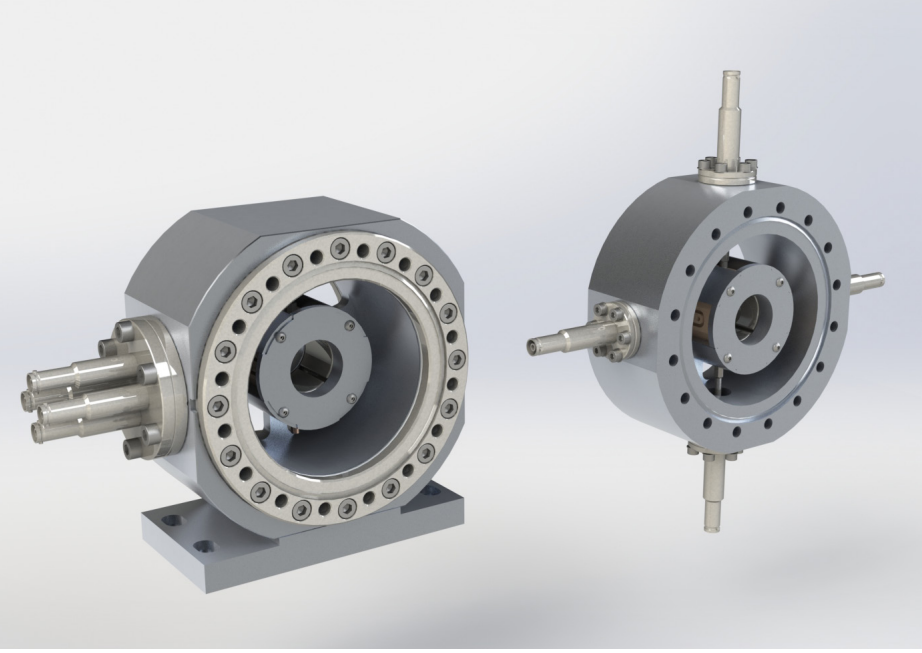
D.I.S Germany GmbH

ELECTROSTATIC DEFLECTOR

Electrostatic deflectors can be used for charged particle beam guidance and deflection as elements of beam optics.

Designed with four electrodes, it allows a deflection of the ion beam in both horizontal and vertical directions.

The electrostatic deflector can be operated in broad pressure ranges, down to ultra-high vacuum conditions.



Electrostatic deflector with different high voltage feedthrough options.

further reading and related products:
Einzel lens

Special Features:

- four electrodes enable horizontal and vertical beam deflection for beam position and angle correction or beam scanning
- refocusing of ion beams by superimposing lens voltages onto both deflector electrodes simultaneously
- use as a beam scanner in combination with suitable potential control on the deflector electrodes
- electrode voltage of up to ±10 kV
- 30 mm distance between electrode segments, other spacing on customer request
- compact design in one casing thus requiring little space and allowing uncomplicated integration into existing setups
- electrical feedthroughs for all voltages

Optional Supplementing Devices:

- power supplies for electrodes
- with optional control software
- further customization possible

Please do not hesitate to contact us to find a solution suitable for your special application.

D.I.S

D.I.S Germany GmbH

Address
Breite Str. 2
01796 Pirna
Germany

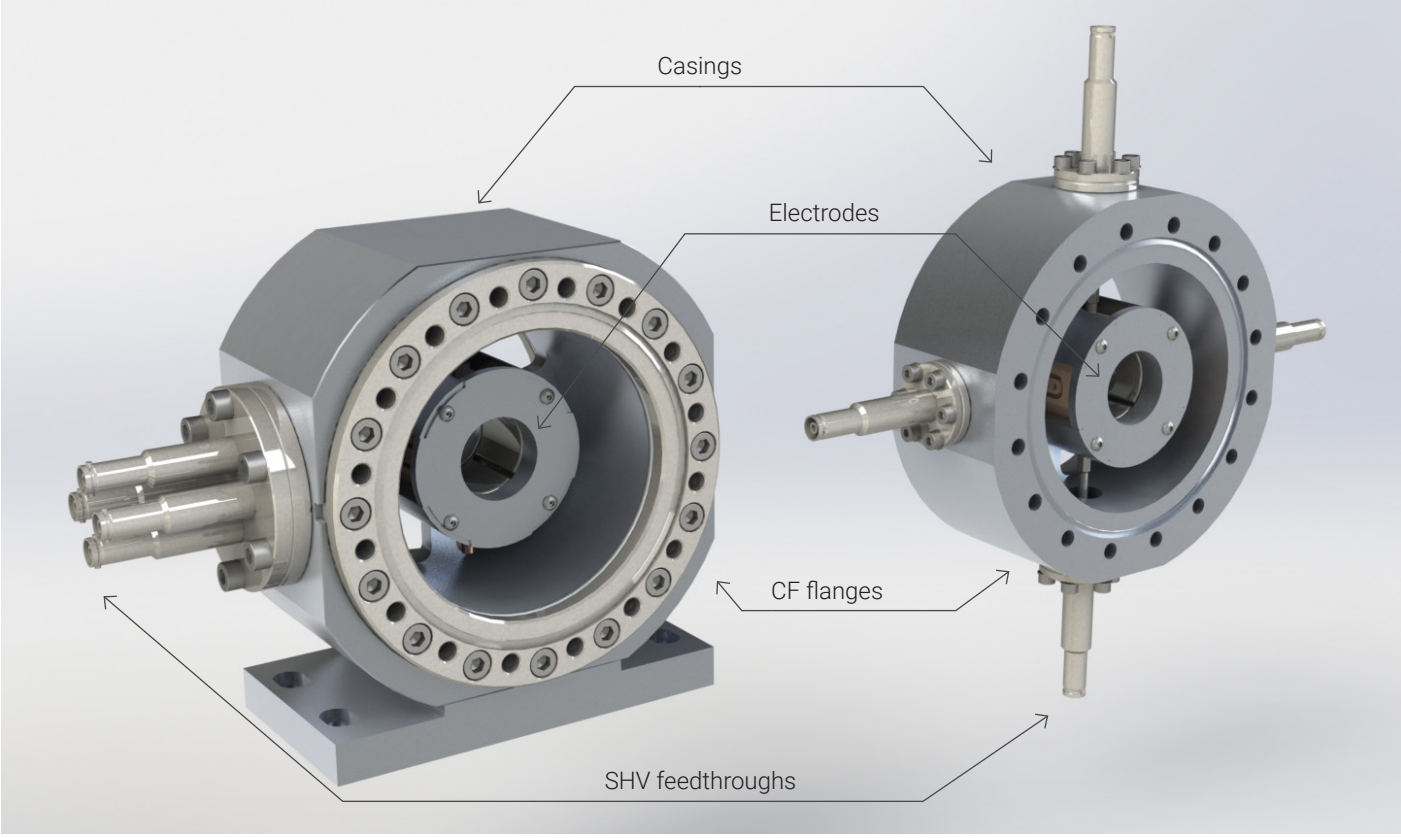
Visitors Address
Sachsenallee 24 a
01723 Kesselsdorf
Germany

Contact
Phone +49 3501 5823-0
info.germany@dis-eng.de
www.dis-eng.de

D.I.S

D.I.S Germany GmbH

ELECTROSTATIC DEFLECTOR



Two different labeled electrostatic deflector options each with four electrodes for horizontal and vertical beam path manipulation.

TECHNICAL DATA	
category	charged particle beam optics
pressure operating range	down to $1 \cdot 10^{-10}$ mbar
maximum electrode voltage	±10 kV, or on customer request
electrode spacing	30 mm, or on customer request
mounting flange	DN100 CF, other dimensions (size, cylindrical or planar) on customer request; DN63 CF or other flange dimensions or flange types on customer request
maximum bakeout temperature	150 °C
approx. box size (length x width x height)	60 mm x 280 mm x 280mm (DN100 CF flanges)

D.I.S

D.I.S Germany GmbH

Address
Breite Str. 2
01796 Pirna
Germany

Visitors Address
Sachsenallee 24 a
01723 Kesselsdorf
Germany

Contact
Phone +49 3501 5823-0
info.germany@dis-eng.de
www.dis-eng.de