

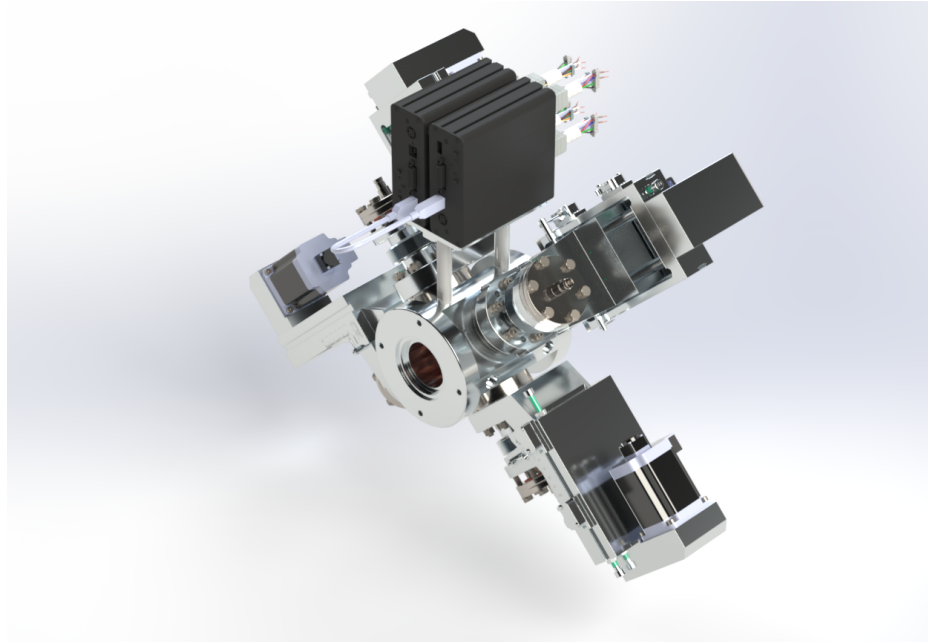
low power 4-jaw-slit-system DN63

932-S7-09-00001-C-01

The 4-Jaw slit system can be used for ion beam diagnostics for the purpose of collimating or blanking the charged particle beam.

Each slit is mounted on a linear feedthrough in order to be individually moved into and out of the beam.

The system is designed for collimating beams of charged particles with an energy of 3 MeV and a beam power up to 6 W beam power in broad pressure ranges, down to ultra-high vacuum conditions.



4-Jaw slit system, each slit is equipped with a stepper motor and can be moved individually.

further reading:

- https://www.dis-eng.de/products/charged-particle-beam-diagnostics/_4-jaw-slit-system/

Special Features:

- 4 mm thick slit aperture made of copper
- each slit is mounted to a motorized linear feedthrough thus being individually adjustable
- travel length 40 mm in steps of 0.71 μm
- BNC feedthrough for charged particle current readout on the individual aperture
- vacuum chamber with DN63 ISO-F beamline connection flanges

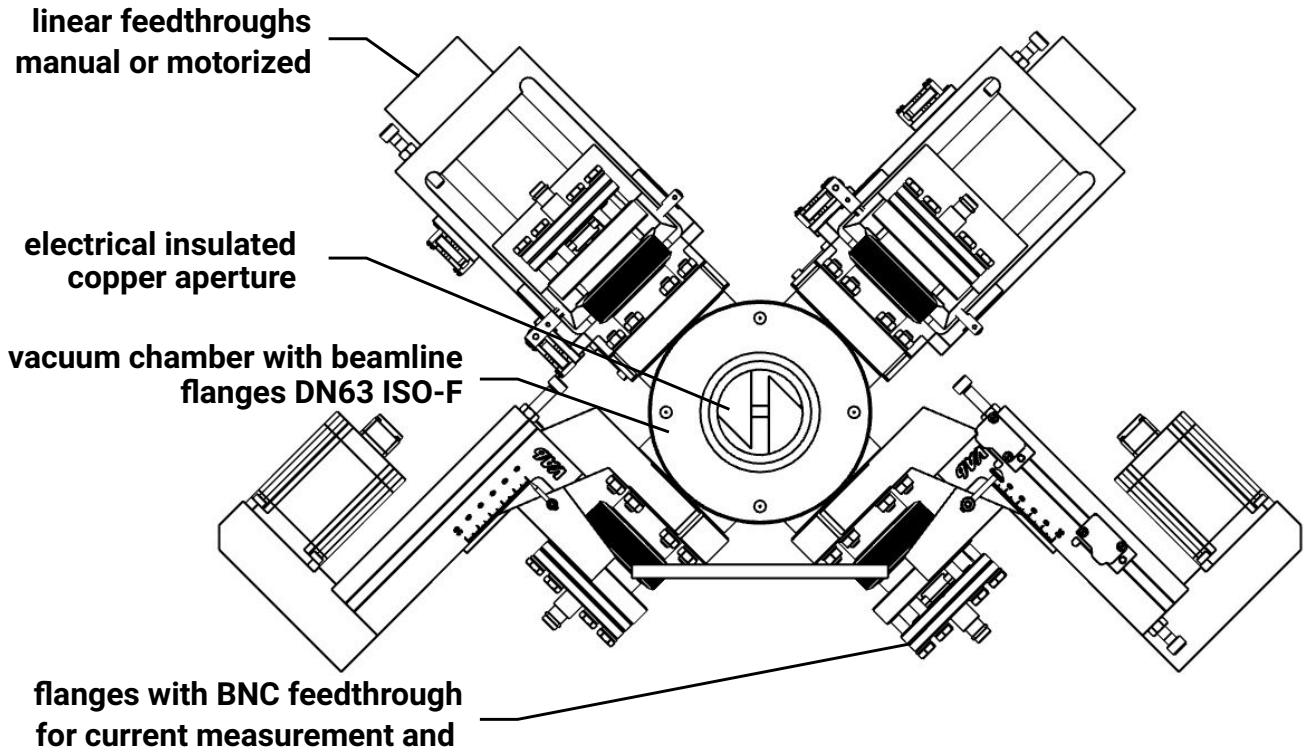
Optional Supplementing Devices:

- different geometries and materials for slit aperture
- current measurement device for all dimensions of electric current, starting at pA
- stepper motor control device (991-S7-10-00004 - Motor control device, 4 axes)

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

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Sketch of the 4-jaw-slit system cup with labeled components

TECHNICAL DATA

category	charged particle beam diagnostics
maximum beam power	up to 6 W with passive cooling
pressure operating range	down to $1 \cdot 10^{-10}$ mbar
travel length	40 mm
resolution	0.71 μ m
beamline mounting flange	DN63 ISO-F
maximum bakeout temperature	<120 °C
approx. box size (length x width x height)	257 mm x 633 mm x 431 mm
weight	37 kg