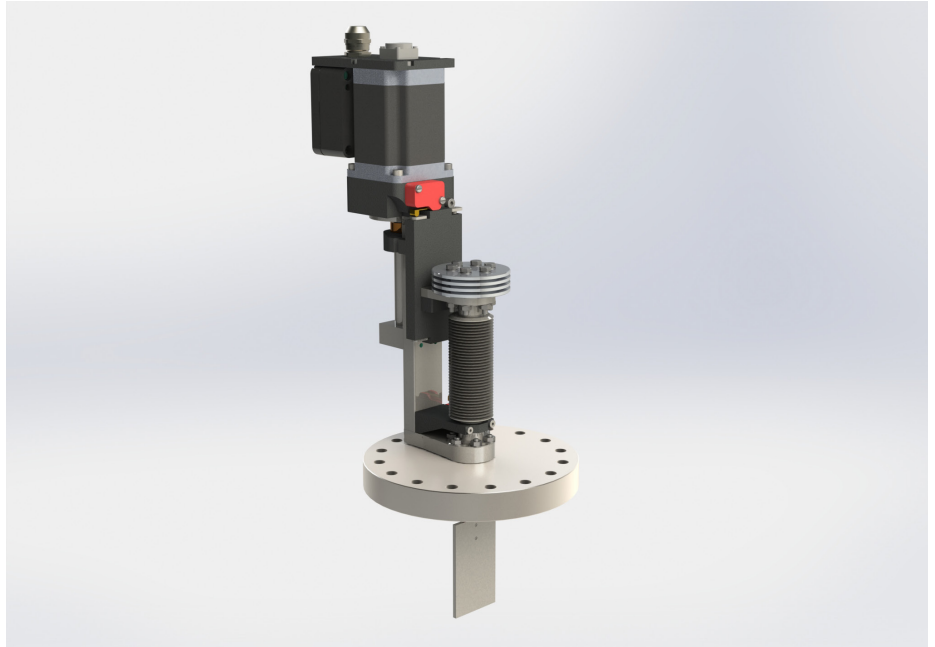


APERTURE SYSTEM

Aperture systems can be used to collimate or blank charged particle beams for ion beam tailoring or diagnostics.

The system is designed for collimating beams of charged particles with currents of a few pA, as well as beams with up to 15W beam power in broad pressure ranges, down to ultra-high vacuum conditions.



*further reading and related products:
4-Jaw slit system*

Aperture system with motorized linear feedthrough.

Special Features:

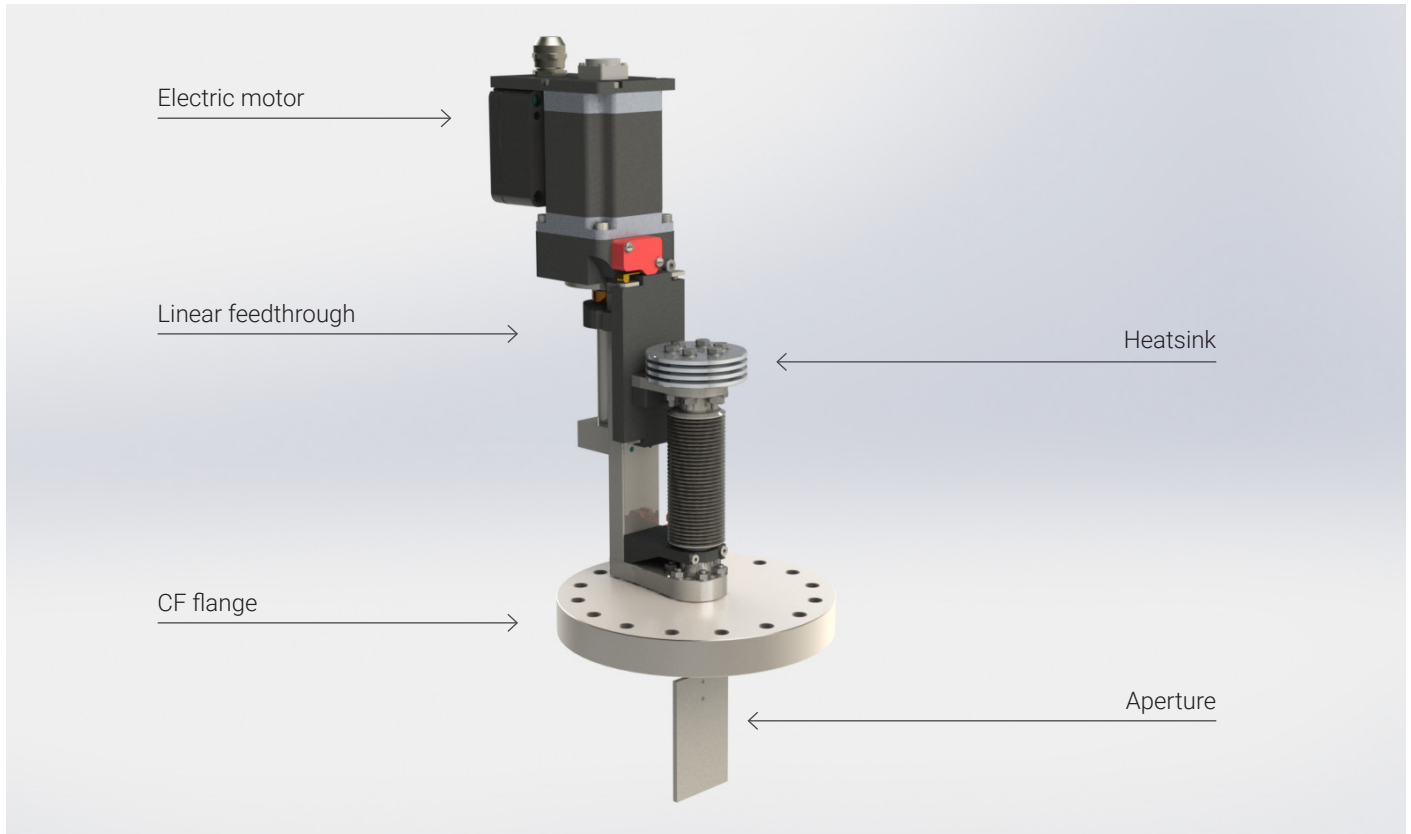
- apertures of different dimensions available
- different travel lengths
- mounted to a linear feedthrough in order to enable positioning into and out of the beam
- optionally highly sputter resistant materials (e.g. tungsten) are available and recommended for use with beams of heavy and/or highly energetic ions
- optional readout of charged particle currents on the aperture system with insulated aperture option and electrical feedthrough option

Optional Supplementing Devices:

- current measurement device for all dimensions of electric current, starting at pA
- active cooling system for higher thermal loads
- optional extension to multi-jaw slit system

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

APERTURE SYSTEM



Labeled Aperture system option. Various alterations regarding aperture dimension, travel length and mounting flange are possible.

TECHNICAL DATA

category	charged particle beam diagnostics
maximum beam power	up to 15 W with passive cooling; higher beam power possible with active cooling
pressure operating range	down to $1 \cdot 10^{-10}$ mbar
travel length	50 mm up to 200 mm, fixed, or on customer request
mounting flange	DN16CF up to DN200CF, or on customer request
maximum bakeout temperature	150 °C
approx. box size (length x width x height)	210 mm x 152 mm x 410 mm (DN100CF flange)