

4-JAW SLIT SYSTEM

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 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:
Aperture system*

4-Jaw slit system, each slit can be moved individually.

Special Features:

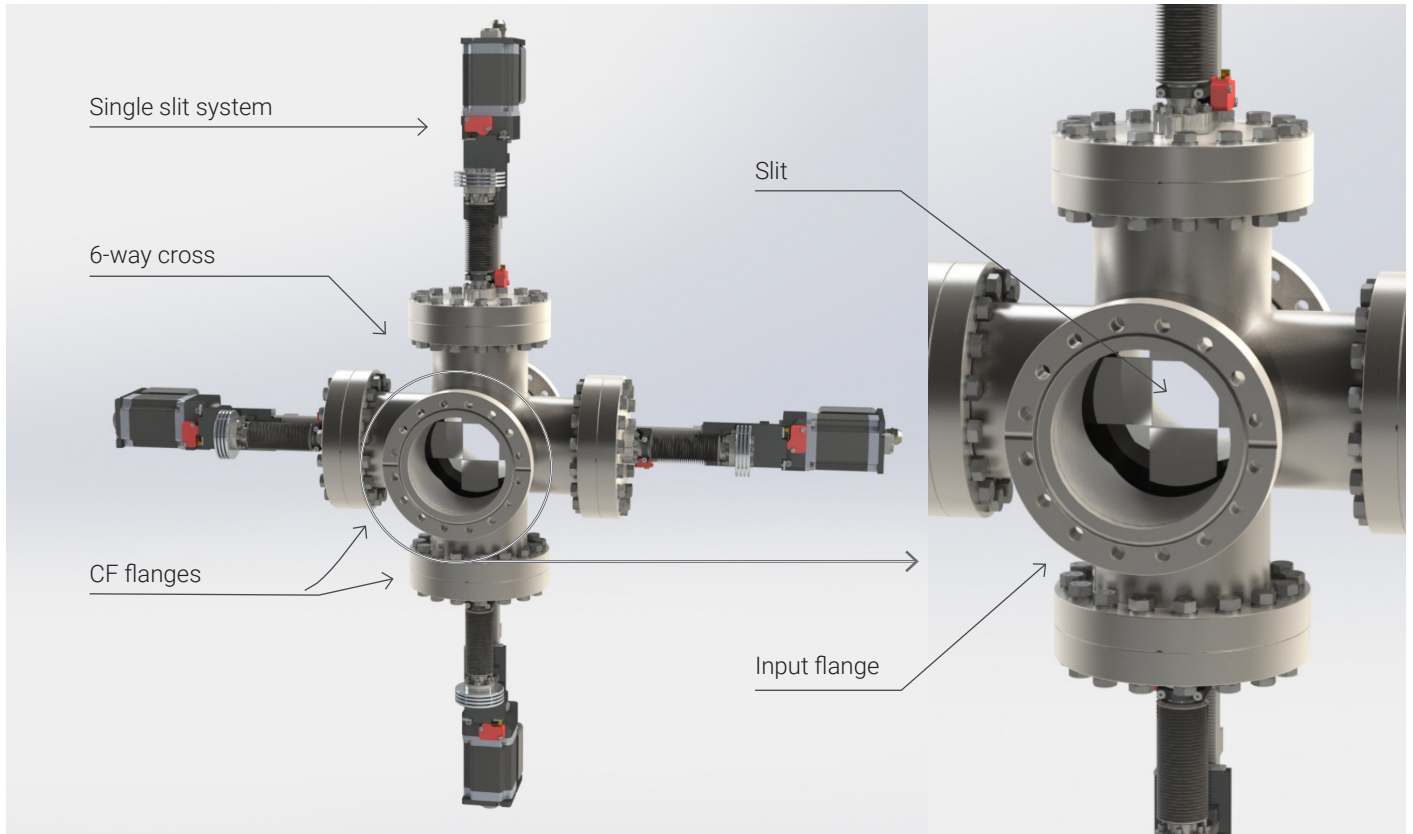
- slits of different dimensions and travel lengths available
- each slit is mounted to a motorized linear feedthrough thus being individually adjustable
- manual linear feedthroughs or fixed installation optional
- optional readout of charged particle currents on the aperture system with insulated aperture option
- optionally highly sputter resistant materials (e.g. tungsten) are available and recommended for use with beams of heavy and/or highly energetic ions
- implemented heatsinks for passive cooling
- suitable for 4-, 5- or 6-way crosses or cubes of any dimension between DN16CF and DN200CF as alternative recipient

Optional Supplementing Devices:

- current measurement device for all dimensions of electric current, starting at pA
- active cooling unit for higher thermal loads

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

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Labeled 4-Jaw slit system. Further detailed information regarding the Slit system itself can be found in the corresponding product data sheet.

TECHNICAL DATA

category	charged particle beam diagnostics
maximum beam power	up to 15W with passive cooling; higher beam power possible with active cooling
pressure operating range	down to $1 \cdot 10^{-10}$ mbar
travel length	50mm up to 200mm, 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)	270mm x 900mm x 900mm (DN100CF flanges)