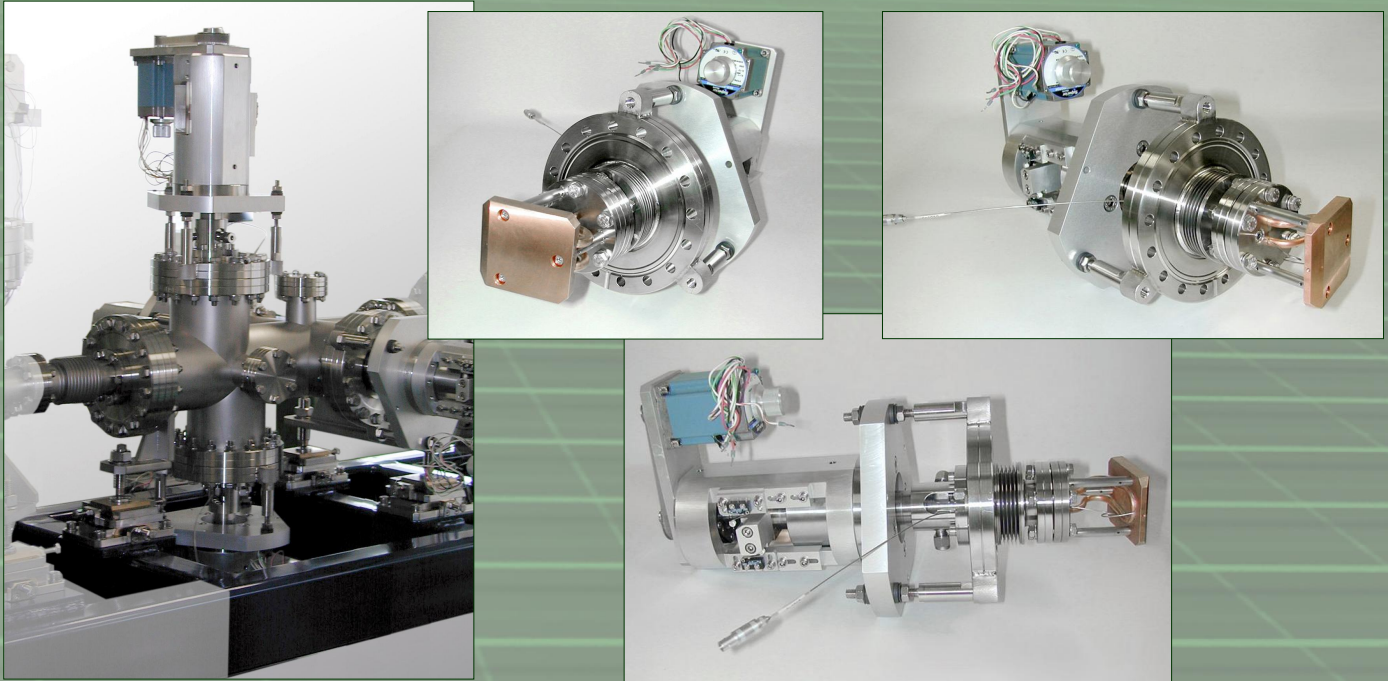


Slit System for apertures



Each system consists of two or four slit heads and manipulators.

The slit system is based on a uniform and modular concept with

- stroke unit optionally driven by
- stepping motor with or without synchronous belt gear
- cooled or uncooled slit jaws made of OFHC-Copper, Glidcop® or tungsten

The linear drive system is mounted on a base flange CF100. The system can be equipped with end switches, reference points or linear encoders. The linear feedthrough to the vacuum is realised by a welded bellow. The vacuum side interface for the elements to be moved is a flange CF54.

Depending on the heat load and the slit precision various slit heads can be connected to that interface flange on the vacuum side. A standard slit head consists of e.g. an inclined copper or Glidcop® plate with water cooling on the backside. In case of a high thermal load a tungsten cutting edge is inserted into the copper plate. For temperature control of the slit head a thermocouple can be fitted as an option.

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Slit System for apertures

Technical Data.

Dimensions of manipulator slit system:

- | | |
|---------------------------------------|-----------------------------|
| - Width (with synchronous belt drive) | 228 mm |
| - Height | 310 mm outside basic flange |

Base flange

DN 100 CF

Interface flange

DN 54 CF

Stroke

± 12.5 mm

Resolution

0.001 mm

Repeatability

0.002 mm

Repeat accuracy of reference point switch

± 0,002 mm

Leakage rate

$< 1 \times 10^{-10} \text{ mbar} \cdot \text{l} \cdot \text{s}^{-1}$

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