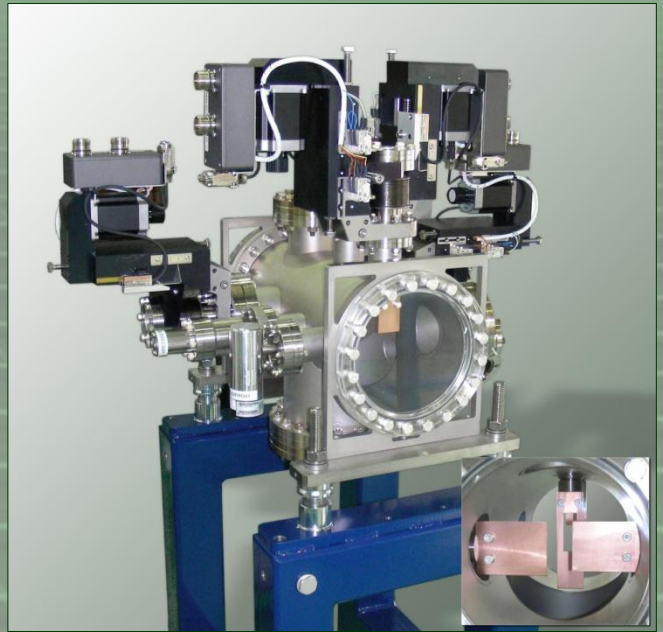
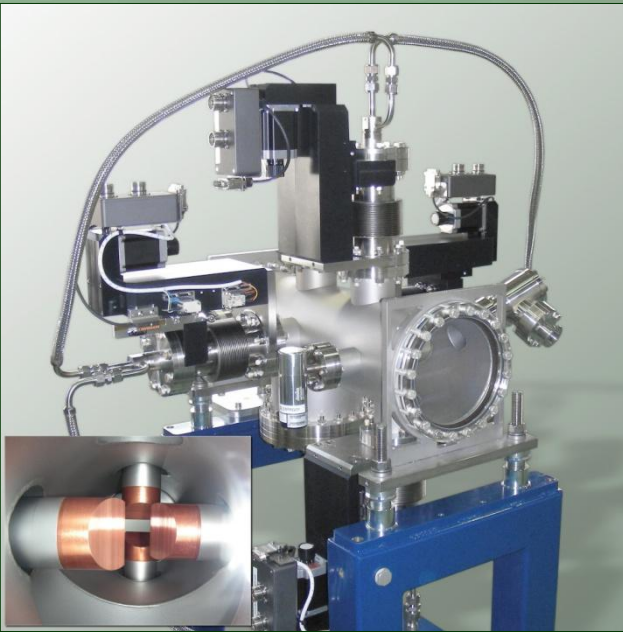


Slit System for apertures



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 CF63 or CF35. The system can be equipped with limit switches, reference switches or linear encoders. The manually driven or motorized linear feedthrough to the vacuum is realised by a welded bellows (size 63 or 35). 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. As an further option FMB offers the drain measurement on the insulated aperture blades.

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Slit System for apertures

Technical Data.

Dimensions of manipulator slit system:

- Width (with synchronous belt drive) 250 mm
- Height 325 mm outside basic flange for stroke

Base flange

63 CF or 35 CF

Slit blade length (max.)55 mm for 63 CF
32 for 35 CF**Cooling**

Water cooling as option

Drain current measurement

as option

Drive

Manually or motorized

Motorization

Stepper motor, 400 full steps

Stroke $\pm 12.5 \text{ mm}, \pm 25 \text{ mm}, \pm 50 \text{ mm}$ **Resolution**

0.005 mm per full step

Repeatability

0.005 mm

Repeat accuracy of reference point switch $\pm 0,002 \text{ mm}$ **Linear encoder**

Renishaw RGH 24

Reference switch

Renishaw

Limit switch

MyCom or Cherry

Leakage rate $< 1 \times 10^{-10} \text{ mbar} \cdot \text{l} \cdot \text{s}^{-1}$ **FMB GmbH**

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