

4-JAW SLIT SYSTEM

- TWO DIMENSIONAL BEAM FORMATION AND ANALYSIS-



4-Jaw Slit System

The 4-Jaw Slit System can be used for analyzing as well as forming the size and shape of a charged particle beam. It consists of four plates which can be moved individually from an out-of-beam position into the beam. The position of the slits is adjustable with sub-millimeter precision.

The standard model of the system includes the vacuum chamber and manual linear motion feedthroughs. Furthermore, the following optional equipment is available:

- motor-driven linear feedthroughs for jaw positioning
- electrically insulated jaws incl. wiring and feedthroughs for current measurement on jaws
- multi-channel picoampere meter or electrometer for measurement directly on jaws
- control and measurement software for the slit system

4-JAW SLIT SYSTEM PARAMETERS

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|--------------------------------------|---|
| jaw width | 20 mm |
| standard out-of-center jaw travel | 25 mm (other travel distances on request) |
| beamline attachment flange | DN 100 CF (other diameters on request) |
| dimensions (length x width x height) | 250 mm x 900 mm x 900 mm |
| max. bake-out temperature | 150 °C |
| vacuum conditions during operation | from $1 \cdot 10^{-10}$ mbar up to atmospheric pressure |

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