



Vacuum 4-Blades Slit <GHM-15R>

The slit system achieves more precisely positioning. This is designed for a higher request of precisely X-ray shaping for a small sample measurement or nano- or micro-beam focusing.

(Shunji Goto et al MEDSI-Proc -04-40)



<GHM-15R >

Features

- ◆ High precision 4-blade slit for high vacuum (No Cooling System).
- ◆ Each blade is actuated independently.
- ◆ Reliable Kohzu Std. Stages are installed in air-side to move the slits.
- ◆ The extra support system allows the precise movement.
- ◆ Design for reducing deformation in driving mechanism so that it can cancel the atmospheric pressure.
- ◆ Vacuum 1 x 10E-4 Pa
- ◆ Blade's Parallelism < 1 μm
- ◆ Perpendicularity < 2 mrad
- ◆ ICF152 for connection to BL.
- ◆ The distance between in and out of chamber's flanges is 380 mm.

Specifications

Model	GHM-15R
Maximum Aperture	20 x 20 mm
Stroke	± 10 mm
Minimum Gap	10 μm
Resolution (Half-step)	0.25 μm / step
Repeatability	1 μm
Blade material	Tantalum (5 mm Knife Edge)
Vacuum	1 x 10E-4 Pa
Dimension	310 x 380 x 420 (W x L x H : mm) L is Direction of Beam



[1]

This is shown as a measurement for several tests at off-line BL46XU.

	Direction	Std. Slit (SP-8)	GHM-15R
Full Stroke		10.52 mm	20.51 mm
Resolution (Half-step)		1.0 μm	0.25 μm / step
Accuracy (1 σ)		±2.5 μm	±0.4 μm
Repeatability	CW	±5.4 μm	±0.8 μm
	CCW	±4.9 μm	±0.8 μm
Linearity	CW	40.6 μm / 9mm	1.8 μm / 20mm
Backlash		8.9 μm	0.7 μm

[2]

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