



Vacuum Cross Slit Screen 3002.70.M

The system 3002.70M is a compact motorised vacuum slit screen with an overall length of just 160 mm.

Each of the four blades is driven by a step motor.

Usual applications are in experimental set-ups with extremely limited space and the additional requirement of guiding the beam in vacuum or a defined atmosphere. Each of the four blades can be adjusted individually and with high precision by step motors.

Technical details:

Four step motors of extremely low height mounted on the outside of the housing drive the mechanism via vacuum manipulators. The maximum aperture size is 12mm x 12mm.

The slit screen is equipped with limit switches to prevent collision and mechanical damage. The aperture has a KF-flange on both sides, as well as an additional connection for the vacuum pump.

The KF-flanges can be used for simple adaption to other optical components such as HUBER tube slit screens, HUBER vacuum polarisation analysers or Oxford-Danfysik detectors.

The slit screen is optionally mounted on a X95-Profile or a HUBER prism carriage. Thus it can be easily interchanged or mated with other beam line components.

Blade geometries:

The following blade geometries are available:

- A)  (Standard)
- B) 
- C) 

Specifications:

Aperture [mm]:	0-12
Adjustment:	asymmetric
Weight [kg]:	4
Resolution [μm]:	1.524 / motor step (400 steps/rev)

Material:

Housing:	Aluminium*
Blades:	2.5mm Tungsten*
Vacuum aperture tube:	stainless steel

* other materials available on request

Technical data motor:

Number of phases:	2
Type of plug:	Sub D15
Number of steps/revolution:	200/400
Voltage [V]:	5
Rated current [A/Phase]:	0.7

