

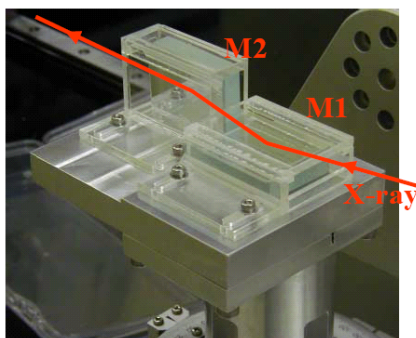


K-B Mirror Goniometer <SPT-23>

This goniometer is a high precision goniometer for a set of K-B mirror.
(Please see the information about the optical element as below.)



	Name	M1	M2
shape	Material	SiO2	
	Length	50 mm	
	Width	24 mm	
	Thickness	12 mm	
Surface	Polish	Numerical controlled technique	
	Shape	Parabolic	
	Material	Pt coated	
	Average glancing angle	2.8 mrad	
	Radius of curvature	71428.7 mm	35714.3 mm
	P-V surface error	0.4 μm	0.4 μm
	rms roughness	0.4 nm	0.3 nm
	Effective aperture size	113 μm	114 μm
	Focal length	100 mm	50 mm
	Diffraction limit @8keV	0.067 μm	0.137 μm



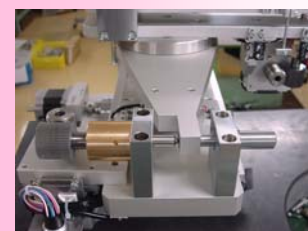
Typical Parameters of KB Mirror (Canon Co. Ltd.)

Specifications

Model	SPT-23
Load Capacity	1 kg
Stroke	±3° (Fine) ±18° (Coarse : Only for horizontal plane rotation)
Resolution (Half-Step)	0.02 arcsec / step
Wobble	0.1 arcsec / 300 arcsec
Actuator	5-Phase Stepping Motor (PK564-B : Oriental)

Features

◆ It is equipped with two-axis rotations (perpendicular each other) and X-Z translations.



◆ Precise tangential-bar mechanism is adapted for two-axis rotations.



◆ A set of K-B-mirror is mounted on the same mounting plate (K-B mirror is not included).

◆ The XYZ goniometer is an unit called SPS-2.