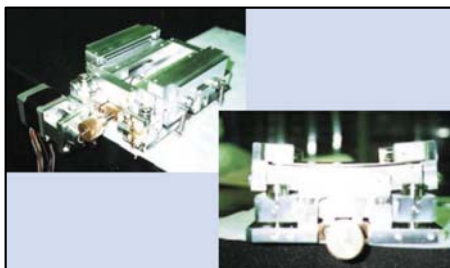




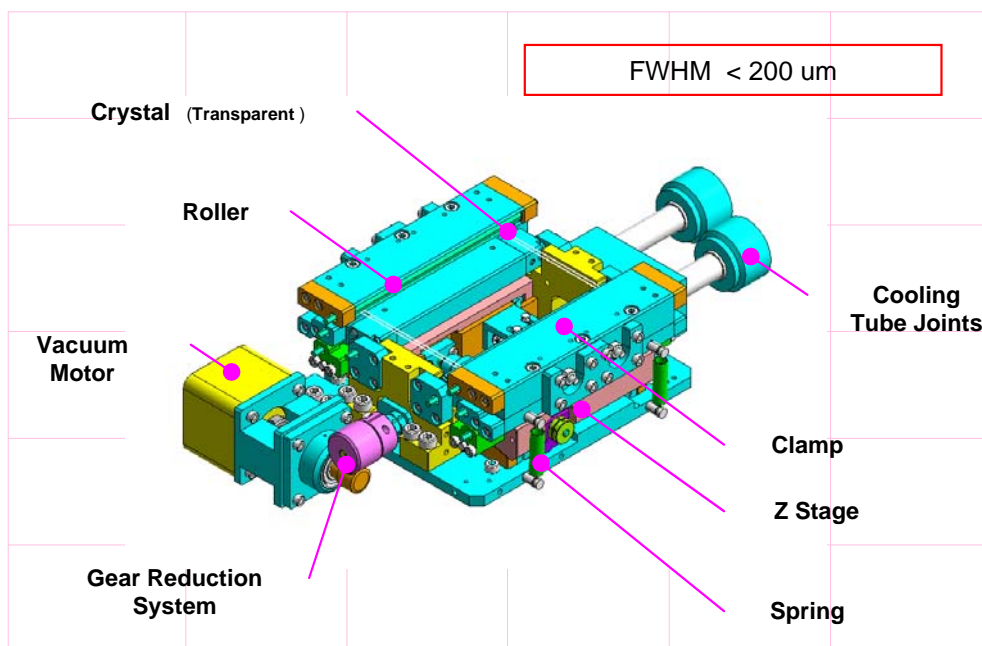
Crystal Bender <SMB-3>

This instrument is sagittal focusing bender for SPring-8 standard bending-magnet beamlines. There is chilled water supply tube for cooling mechanism.

Kohzu had developed this type of bender at SPring-8 on site and satisfy user's requirements now.



<SMB-1D> Prototype bender



Specifications

Model	SMB-3
Actuator	Vacuum Motor (Sanyo Denki)
Stroke (Z stage function)	-1.3~0.2 mm
Bending (R)	800 mm R (at -1mm position)*
Resolution (Full-step)	0.00625 μm / step
Crystal (not included)	Si(111)
Cooling	Non Direct Water Cooling

* With the crystal which has 0.5 mm t at the thinnest part.

Features

◆ Designed for making the correct radius of curvature of curved silicon crystal plate.

◆ X-ray beam by this mechanism will be able to focus at the sample position.

◆ With Cooling Tubes

◆ It is standard with the cooling block to reduce the heat load of high-intensity light.

◆ The bending mechanism, the more rigid traditional systems by using the Z stage, enabling high accuracy to maintain reproducibility.

◆ The thin flat crystal sheet is held between two rollers at an each end.

◆ The crystal is bended by the changing the position of 4 rollers.

◆ The parallelism and height of a pair of rollers are fine tuned within 3 μm error.

◆ The repeatability of these parallelism and height are ±1 μm.

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