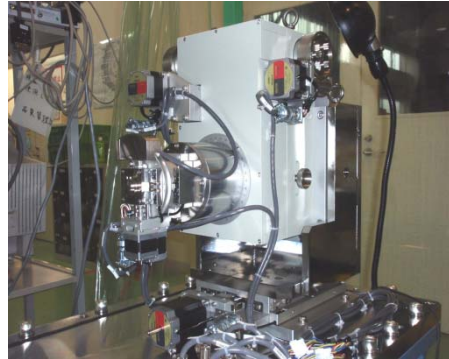




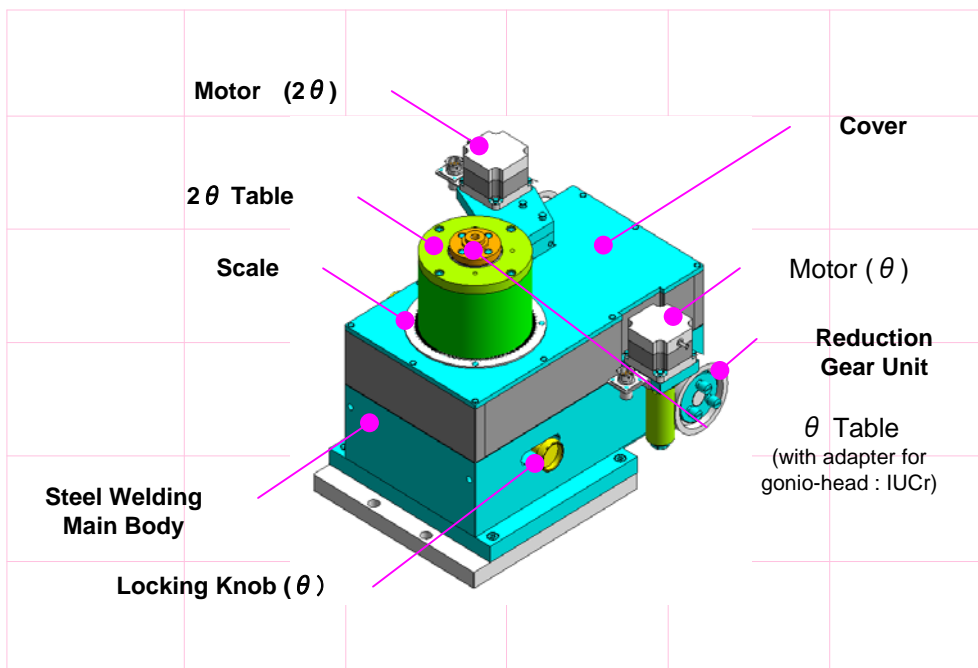
Ultra High Precision Coaxial Goniometer <KTG-16W>

The device was manufactured for use as a high resolution 4-crystal asymmetric reflection monochromator.

The right picture shows it is installed in a chamber as a low vacuum type.



< KTG-16W in the STG-11 chamber >



Specifications

Model	KTG-16W
Stroke	± 2 degree (Fine) 360 degree (Coarse)
Eccentricity	3 μ m / 360 degree
Wobble	± 1 arcsec / 360 degree
Resolution (Half-step)	0.0025 arcsec / step
Actuator	5-Phase Stepping Motor (Fine) Manual (Coarse)
Load Capacity	20 kg (Horizontal) 10 kg (Vertical)
Weight	50 kg
Dimension	349 x 375 x 316.5 mm ³

Features

◆ **Two rotation tables are together with common rotation axis.**

◆ **Both tables are driven independently by tangent bar mechanisms.**

◆ **Coarse**
Coarse motion is isolated or activated via an integral and manual locking mechanism.

When unlocked, the coarse motion mechanism is manually activated and offers a motion range of 360° with a minimum resolution of 1° on laser-etched scale.

◆ **Fine**
The fine motion mechanism delivers a motion range of $\pm 2^\circ$ and a resolution 0.005 arcsec / Full step.

◆ **With radiation resistant mechanical limits, which are located at top-end of tangent bar mechanism inside main body.**