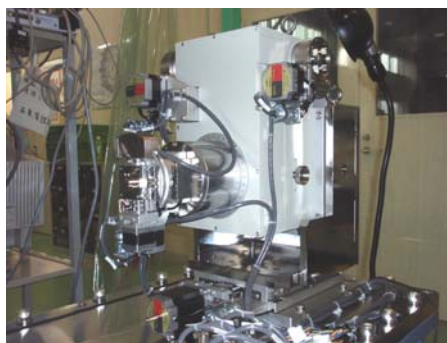




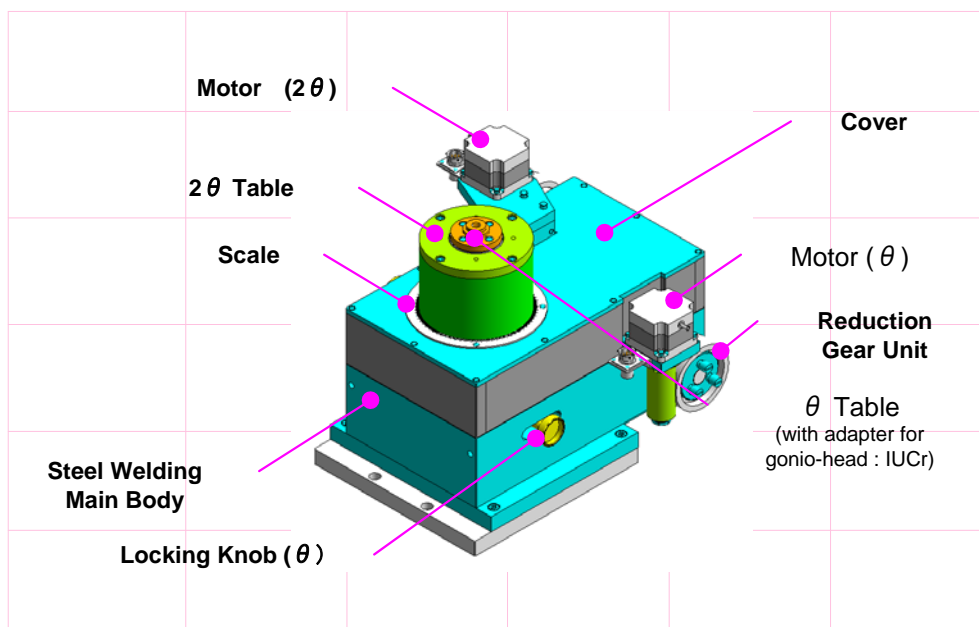
# Ultra High Precision Coaxial Goniometer <KTG-16W>

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 >



## 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 ±2° 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.**

## Specifications

Model	KTG-16W
Stroke	±2 degree (Fine) 360 degree (Coarse)
Eccentricity	3 um / 360 degree
Wobble	±1 arcsec / 360 degree
Resolution (Full Step)	0.005 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 <sup>3</sup>

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