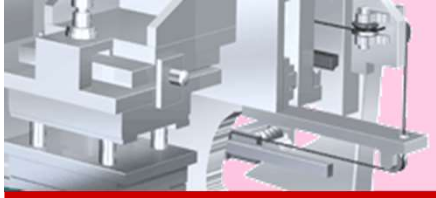


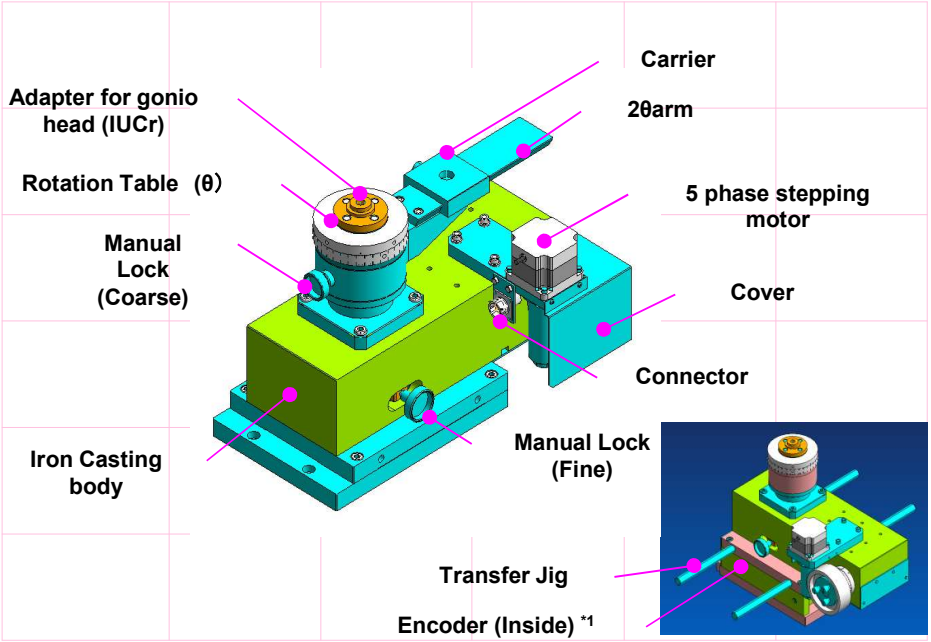
KOHZU

Pioneering the door to the future
with commitment to technology

High Precision Goniometer <KTG-15D01-SR>

Kohzu's KTG-15 goniometers were specifically developed for use at high energy X-ray synchrotron facilities where precision angular displacement and repeatability are essential. The goniometer's extreme resolution is attained by displacing a rotation spindle fitted with a long radially mounted arm, via a tangentially positioned and motorized micrometer head.

<KTG-15DAP (1/200 gear reduction type)>



Specifications

Model	KTG-15D01-SR
Load Capacity	20 kg (Axial Direction) 10 kg (Radial Direction)
Stroke	±2° (Fine) ±360° (Coarse)
Resolution (Half-step)	0.005 arcsec / step
Gear Reduction	1/100 (Helical Gear system)
Wobble	±1 arcsec / 360 degree
Actuator	5-phase Stepping Motor
Dimension	180 x 375 x 258.5 (W x L x H : mm) : Only Main Body
Weight	26kg (without encoder)

Date of issue: 2024/Feb/27

Features

◆It is equipped with both fine and coarse motion 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 0.01arcsec resolution (motor in full-step mode).

◆Heidenhain ROD880 angular encoder with cables and display can be added for precise position feedback (*1 as KTG-15DAP. The resolution is 0.005 arcsec)

◆With radiation resistant mechanical limits, which are located at top-end of tangent bar mechanism

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