

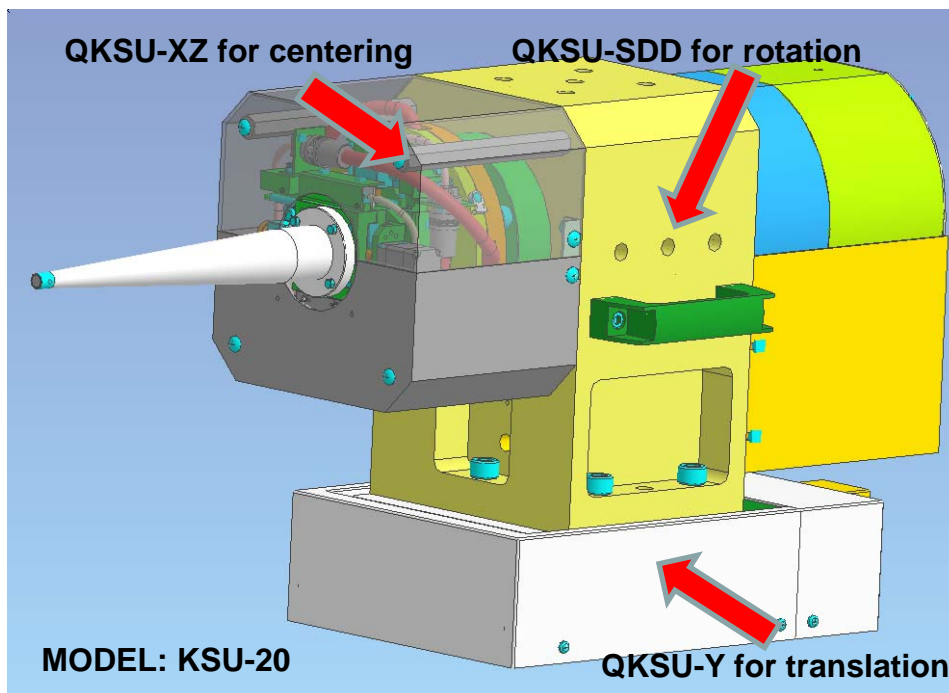
High Speed Rotation Stage <QKSU-SDD>

As the request to the precise alignment stages are increasing year by year, the new goniometer has been developed by our factory.

Usually, for high speed and low eccentricity rotation stage, air bearing type goniometer is used to achieve high performance.

Now we have succeeded to develop mechanical direct drive type goniometer without any sacrifice of precision.

Application

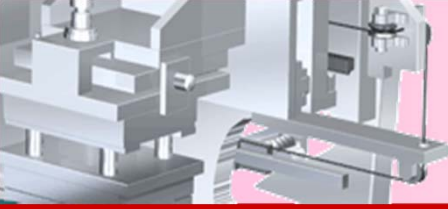


Specifications

Model	QKSU-SDD
Maximum Speed	120 rpm
Actuator	AC Servo Motor
Weight	25 kgw
Resolution	0.0002 degree / step
Encoder Resolution	0.0002 degree / div.
Eccentricity	Less than 0.002mm
Dimension	248(160) x 340 x 235 (W x L x H : mm)

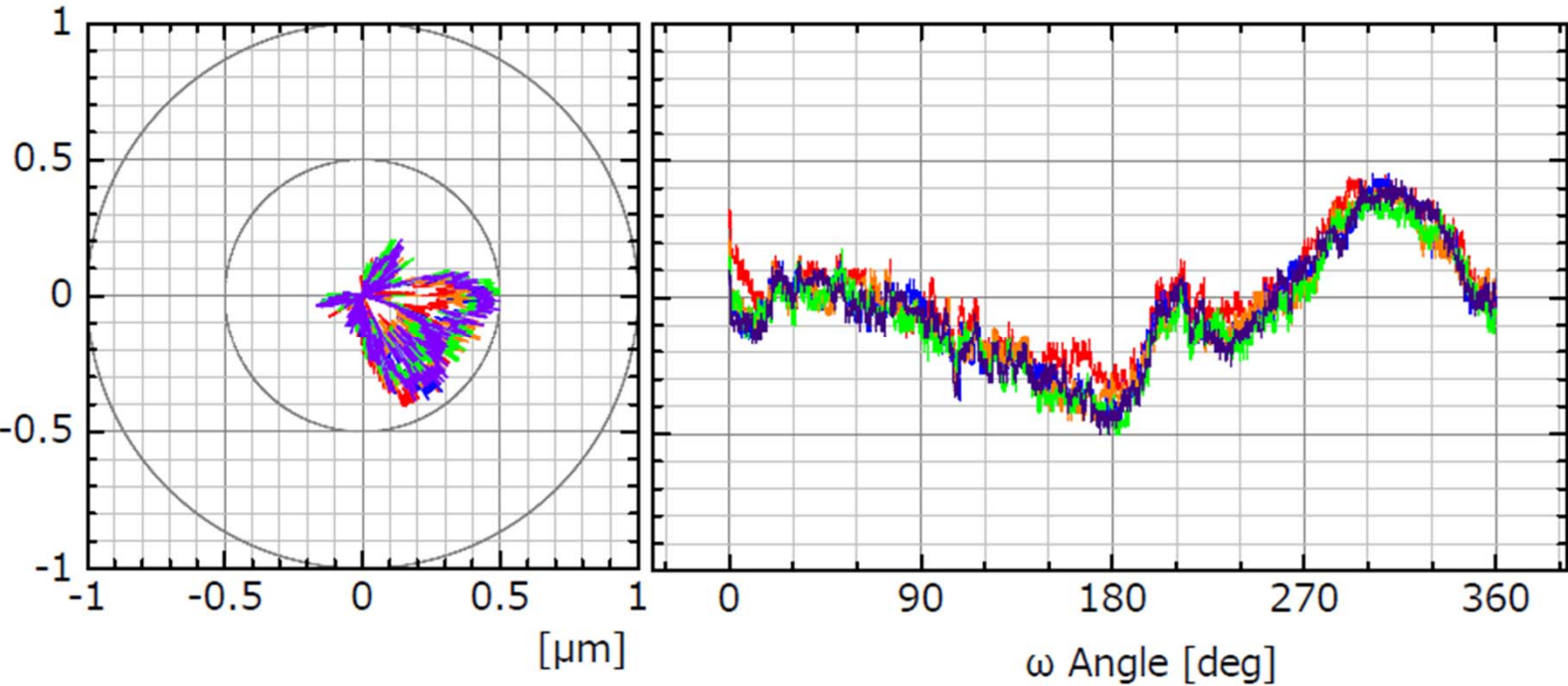
Features

- ◆ Rotation is controlled by exclusive controller with encoder feedback
- ◆ Unevenness of rotation speed for lower side is less than 0.5% (at 10 rpm)
- ◆ Unevenness of rotation speed for higher side is less than 0.01% (at 120 rpm)
- ◆ The load capacity is about 1.2 kgw
- ◆ 2 translation stages for sample centering can be mounted on the rotation table
- ◆ Optional centering stages are nearly equals to 1.2kgw including sample stick
- ◆ Seamless rotation with slip ring
- ◆ The controller can be communicated via TCP-IP or serial
- ◆ Handy controller is available for local use

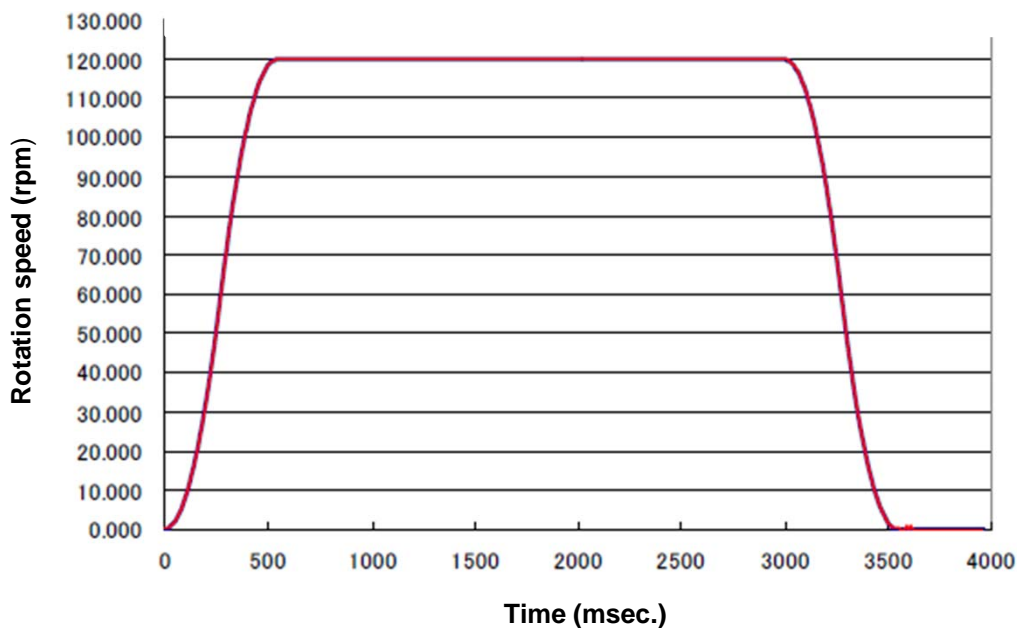


Eccentricity Data

Condition Detector : CHRcodile E (Precitec)
Speed : 36.0 degree / sec.
Iteration : 5 times



Speed Stability Data



Standard deviation for speed

0.0017 rpm

Unevenness of speed

-0.0015% - +0.0013%

Average speed

119.999 rpm

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