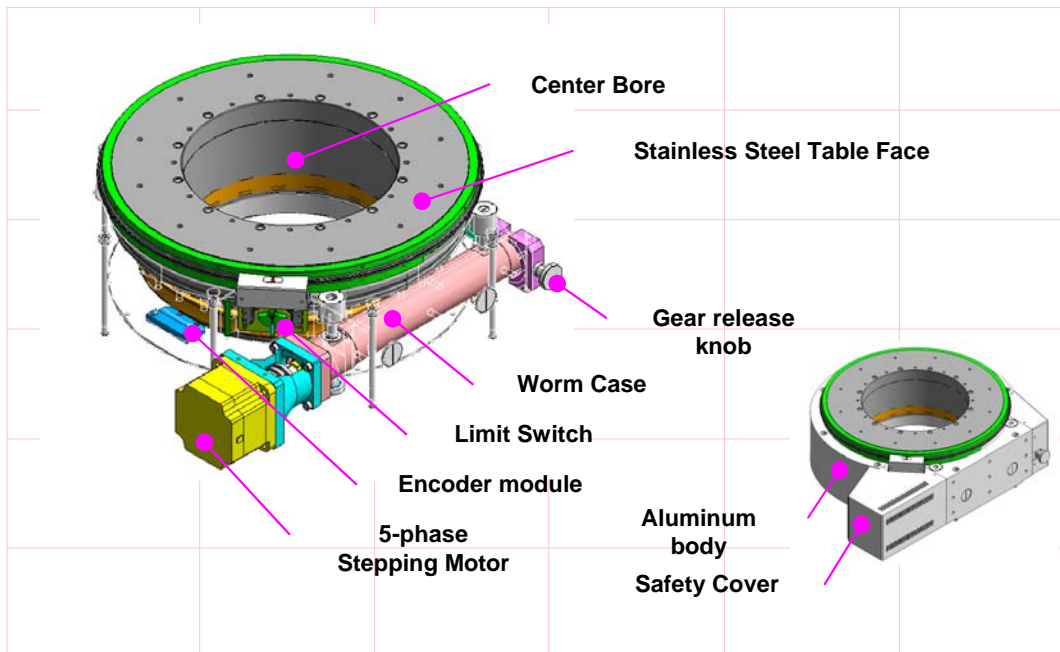
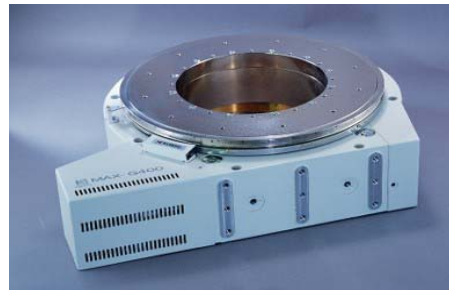




# Ultra High Load Rotation Stage <MAX-G 400 & 600>

MAX-G is one of highest-precision goniometer which can be heavy-loaded and do not change the precision from no loaded case.



## Features

### MAX-G400

#### ◆ Eccentricity

<Horizontal Setting>

- ◆ 2 μm (no load)
- ◆ 2 μm (140 kg load)
- ◆ 1.5 μm (126 kg load on a balanced arm)

<Vertical Setting>

- ◆ 5 μm (no load)
- ◆ 5 μm (3200kg·cm momet on the rot. axis)

#### ◆ Wobble

<Horizontal Setting>

- ◆ 12 urad (no load)
- ◆ 15 urad (140 kg load)

<Vertical Setting>

- ◆ 20 urad (no load)
- ◆ 50 urad (3200kg·cm momet on the rot. axis)

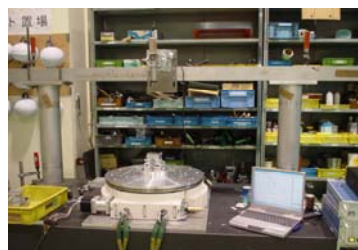
◆ ↑ Same as a result from no load when horizontal setting

## Specifications

| Model                          | MAX-G 400              | MAX-G 600              |
|--------------------------------|------------------------|------------------------|
| Table Size (Bore, Height : mm) | Φ400 (Φ230,145)        | Φ600 (Φ350,172)        |
| Accuracy                       | 15 arcsec / 360 degree | 15 arcsec / 360 degree |
| Resolution (Full step)         | 0.002 °                | 0.002 °                |
| Repeatability (Measured Value) | 2 arcsec (1.4 arcsec)  | 2 arcsec (1.4 arcsec)  |
| Backlash                       | 5 arcsec (1.0 arcsec)  | 5 arcsec (1.0 arcsec)  |
| Eccentricity (Mesured Value)   | 5 μm (2 μm)            | 5 μm (3 μm)            |
| Wobble (Mesured Value)         | 30 urad (15 urad)      | 20 urad (5 urad)       |
| Maximum Speed (Full step)      | 10 ° / sec             | 10 ° / sec             |
| Load Capacity (Horizontally)   | 2 t                    | 5 t                    |



# Ultra High Load Rotation Stage <Continued ...>



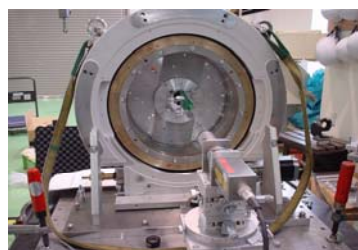
p1



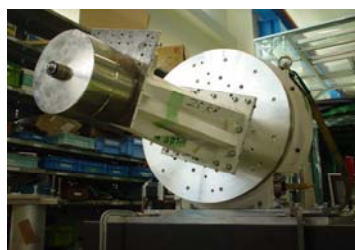
p2



p3



p4



p5



p6

## Features

### MAX-G600

#### ◆ Eccentricity

##### <Horizontal Setting>

- ◆ 3 μm (no load)
- ◆ 3 μm (190 kg load)
- ◆ 3 μm (150 kg load on a balanced arm)

##### <Vertical Setting>

- ◆ 5 μm (no load)
- ◆ 5 μm (3200kg·cm momet on the rot. axis)
- ◆ 8 μm (50kg+50kg at the end of a windmill)

#### ◆ Wobble

##### <Horizontal Setting>

- ◆ 5 urad (no load)
- ◆ 5 urad (190 kg load)
- ◆ 8 urad (150 kg load on a balanced arm)

##### <Vertical Setting>

- ◆ 35 urad (no load)
- ◆ 45 urad (3200kg·cm momet on the rot. axis)
- ◆ 3 urad (50kg+50kg at the end of a windmill)

◆ ↑ Same as a result from no load when horizontal setting

#### ◆ Accuracy

##### <Vertical Setting>

- ◆ 14 arcsec (no load)
- ◆ 13 arcsec(3200kg·cm momet on the rot. axis)

### MAX-G400 (Φ400mm)

| Load              | Weight (kg) | Distance (mm) | Setting    | Eccentricity (um) | Wobble (urad) |
|-------------------|-------------|---------------|------------|-------------------|---------------|
| No load           | 0           | -             | Horizontal | 2                 | 12            |
| Load on center    | 140         | -             | Horizontal | 2                 | 15            |
| Load as balancers | 63+63       | 500           | Horizontal | 1.5               | 15            |
| No load           | 0           | -             | Vertical   | 5                 | 20            |
| Load on center    | 40+26       | ~550*         | Vertical   | 5                 | 50            |

\* Moment: 3200kg·cm

### MAX-G600 (Φ600mm)

| Load                              | Weight (kg) | Distance (mm) | Setting    | Eccentricity (um) | Wobble (urad) |
|-----------------------------------|-------------|---------------|------------|-------------------|---------------|
| No load p <sup>1</sup>            | 0           | -             | Horizontal | 3                 | 5             |
| Load on center p <sup>2</sup>     | 190         | -             | Horizontal | 3                 | 5             |
| Load as balancers p <sup>3</sup>  | 75+75       | 500           | Horizontal | 3                 | 8             |
| No load p <sup>4</sup>            | 0           | -             | Vertical   | 5                 | 35            |
| Load on center p <sup>5</sup>     | 46+26       | ~550*         | Vertical   | 5                 | 45            |
| Load like windmill p <sup>6</sup> | 50+50       | 500           | Vertical   | 8                 | 30            |

p<sup>1-6</sup> Photo above \* Moment: 3200kg·cm

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