### Technical Information (2)

#### Stage Operating Environment
Operating Environment: 15～50°C, 20～70% RH (No Condensation)
Recommended Operating Environment: 22±2°C, 20～70%RH (No Condensation)

#### Stage Installation Method
To mount a stage on the base surface, move the top plate to access mounting holes as shown below.

#### Notes on Mounting Surface Accuracies
Intended product performances may not be achieved if the stage mounting surface or the carried object's mounting surface do not have sufficient flatness.

#### Vertical Use of X-Axis Stages
When mounting a stage in vertical orientation, note the directions of the feed mechanisms and springs.

#### Standard Stages
**About Holding Force (Ref.)**
Holding Force is the (reference) value to hold the stage top surface rest when clamped.

**Measured Holding Force**
- Clamps Condition: Clamp screws are tightened with the tightening torque below and pressed with the test instrument.

**Max. Holding Force (Ref.)**
The max. holding force is the load measured where the stage top surface starts to move.

**Max. Holding Force (Ref.) depending on Tightening Torque**
<table>
<thead>
<tr>
<th>Type</th>
<th>Max. Holding Force (Ref.)</th>
<th>Tightening Torque (Standard at 100%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>XDTS</td>
<td>10N</td>
</tr>
<tr>
<td>(b)</td>
<td>XDTSC</td>
<td>15N</td>
</tr>
<tr>
<td>(c)</td>
<td>XDTS</td>
<td>20N</td>
</tr>
</tbody>
</table>

**Testing Method**

- Tightening Torque (Standard)
- Clamp Force (Standard, Dovetail Slide, Rack & Pinion)

**Clamp Position Change**
XYFES25 (Standard, Low Profile, Rack & Pinion) (Caution) Please note that increased knob diameter may interfere with the stage mounting base surfaces.

### Rotary Stages
- Plate Type
- No Plate Type

### Goniometer Stages
- C: Horizontal
- Z: Vertical
- T: Right Angle

### Intended Product Performances
- Specifications are intended for the intended product performance.
- Intended product performances may not be achieved if the stage mounting surface or the carried object's mounting surface do not have sufficient flatness.

### Vertical Load Capacity
- Do not apply a load exceeding the specified vertical load capacity.
- Bottom Plate:
  - Maximum Load Capacity: 20N
  - Maximum Load Capacity: 30N
  - Maximum Load Capacity: 40N

### Recommended Operating Environment
- X-Axis Stages: 22±5°C, 20～70%RH (No Condensation)
- XY-Axis Stages: 10～50°C, 20～70%RH (No Condensation)

### Other Information about Stages
- Stage Selection Table: P.1639, P.1640
- New Products: P.1641
- Overview, Technical Information: P.1643, P.1644

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**Stage Selection Table**

<table>
<thead>
<tr>
<th>Type</th>
<th>Stage Surface</th>
<th>Part Number</th>
<th>Stage Surface</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>XDTS</td>
<td>25x25 ±5</td>
<td>XYFES25</td>
<td>25x25 ±5</td>
<td>XYFES40</td>
</tr>
<tr>
<td>XDTS</td>
<td>30x30 ±5</td>
<td>XYFES25</td>
<td>30x30 ±5</td>
<td>XYFES40</td>
</tr>
<tr>
<td>XDTS</td>
<td>40x40 ±5</td>
<td>XYFES25</td>
<td>40x40 ±5</td>
<td>XYFES40</td>
</tr>
<tr>
<td>XDTS</td>
<td>60x60 ±8</td>
<td>XYFES25</td>
<td>60x60 ±8</td>
<td>XYFES40</td>
</tr>
<tr>
<td>XDTS</td>
<td>80x80 ±8</td>
<td>XYFES25</td>
<td>80x80 ±8</td>
<td>XYFES40</td>
</tr>
<tr>
<td>XDTS</td>
<td>100x100 ±10</td>
<td>XYFES25</td>
<td>100x100 ±10</td>
<td>XYFES40</td>
</tr>
<tr>
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<td>XYFES25</td>
<td>200x200 ±10</td>
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</tr>
<tr>
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<td>600x600 ±10</td>
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<td>1800x1800 ±10</td>
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</tr>
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<td>2500x2500 ±10</td>
<td>XYFES40</td>
</tr>
<tr>
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<td>3000x3000 ±10</td>
<td>XYFES40</td>
</tr>
<tr>
<td>XDTS</td>
<td>4000x4000 ±10</td>
<td>XYFES25</td>
<td>4000x4000 ±10</td>
<td>XYFES40</td>
</tr>
</tbody>
</table>

**Material:**
- Stainless Steel (303, 304, 316)
- Aluminum Alloy
- Other Materials

**Surface Treatment:**
- Black Anodize
- Natural

**Load Capacity (N):**
- 20N
- 30N
- 40N

**Travel Accuracy (µm):**
- 0.5
- 27.4
- 50

**Weight (kg):**
- 0.04
- 0.09
- 0.36

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**Feature:** Stages with 0.5mm fine lead. Existing Products: XEG, XYEG (P.1672, 1693)

- XY-Axis Stages: 22±5°C, 20～70%RH (No Condensation)
- XYFES25 (Standard)
- XYFES40 (Standard)
- XYFES60 (Standard)

- Clamp Force (Standard, Dovetail Slide, Rack & Pinion)
- Load Capacity (N) Travel Accuracy Weight

- XYFES25 (Standard, Low Profile, Rack & Pinion)
- XYFES40 (Standard, Low Profile, Rack & Pinion)
- XYFES60 (Standard, Low Profile, Rack & Pinion)

- Material: Stainless Steel (303, 304, 316)
- Surface Treatment: Black Anodize