Hollow Rotary Actuators

**DGII Series**

**Horizontal Mounting**

**αSTEP AZ Series Equipped**

The DG II Series combines a hollow rotary table with a controller to create an integrated product that can be directly mounted to large inertia tables or arms. Time and cost associated with mechanism design, parts selection and assembly adjustment can be reduced. No sensor required with AZ Series technology.

**Simplified Design and Programming**

- **Houses Entire Rotary Motion**
  
  Number of components can be reduced

- **Simple Control by Setting No-Entry Zones**
  
  If there are obstructions on the equipment, it is possible to set a region on the output table that will be avoided.

- **Reduce Time with Short-Cut Operations**
  
  Example: When moving from the 0° position to 270° position, counterclockwise movement is automatically selected as the shortest rotation direction.

**High Positioning Accuracy**

<table>
<thead>
<tr>
<th></th>
<th>Motor Vertical Mounting</th>
<th>Motor Horizontal Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backlash</td>
<td>Non-Backlash</td>
<td>6 arc minutes (0.1˚)</td>
</tr>
<tr>
<td>Repetitive Positioning Accuracy</td>
<td>±15 arc seconds (±0.004˚)</td>
<td>±30 arc seconds (±0.008˚)</td>
</tr>
</tbody>
</table>

**Applications Requiring High Performance and High Rigidity**

Visit [www.orientalmotor.com](http://www.orientalmotor.com)

For further information (specifications, dimensions, speed-torque characteristics)
## Product Line

### Vertical Mount Type

- **Horizontal Mount Type**

### System Configuration

### Power Supply

<table>
<thead>
<tr>
<th>Frame Size</th>
<th>60 mm</th>
<th>85 mm</th>
<th>130 mm</th>
<th>200 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC Input</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC Input</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Driver Type

- Built-in Controller
- RS-485 Communication Pulse Input
- Pulse Input
- Network Compatible Driver
- Network Compatible Multi-Axis Driver

### Hollow Rotor Actuator

<table>
<thead>
<tr>
<th>Gear Ratio</th>
<th>85 mm</th>
<th>130 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC Input</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>36</td>
<td></td>
<td></td>
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<tr>
<td>DC Input</td>
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<tr>
<td>36</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Power Supply

- 24VDC Power Supply (For Control)
- Built-in Controller
- RS-485 Communication Pulse Input
- Pulse Input
- Network Compatible Driver
- Network Compatible Multi-Axis Driver

### Accessory

- I/O Signal Cable

### ORIENTAL MOTOR U.S.A. CORP.

**Technical Support**

- Tel: 800-468-3982 7:30AM - 7:00PM C.S.T (M-F)
- E-mail: techsupport@orientalmotor.com

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