Our Reaction Wheels are currently operating on-orbit, supporting numerous successful customer missions.

Brushless DC motors, ultra-smooth bearings, and the advanced lubrication system ensures low-jitter performance, and long life for your mission.

DRIVE ELECTRONICS

Flexible interface options include direct analog torque command as well as a digital command and telemetry option. Standalone control electronics can drive up to four reaction wheels. RWp500, or larger can be driven by its own integrated drive electronics.
## Reaction Wheels

### Models
- **RWP015**
- **RWP050**
- **RWP100**
- **RWP500**
- **RW1**
- **RW4**
- **RW8**

<table>
<thead>
<tr>
<th>Model</th>
<th>Momentum</th>
<th>Max Torque</th>
<th>Mass</th>
<th>Volume</th>
<th>Voltage</th>
<th>Power @ Full Momentum</th>
<th>Design Life</th>
<th>Typical Data Interface</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RWP015</strong></td>
<td>0.015 Nms</td>
<td>0.004 Nm</td>
<td>0.130 kg</td>
<td>42 x 42 x 19 mm</td>
<td>10 - 14 VDC</td>
<td>&lt; 1.0 W</td>
<td>&gt; 5 years</td>
<td>RS-422</td>
</tr>
<tr>
<td><strong>RWP050</strong></td>
<td>0.050 Nms</td>
<td>0.007 Nm</td>
<td>0.24 kg</td>
<td>58 x 58 x 25 mm</td>
<td>10 - 14 VDC</td>
<td>&lt; 1.0 W</td>
<td>&gt; 5 years</td>
<td></td>
</tr>
<tr>
<td><strong>RWP100</strong></td>
<td>0.10 Nms</td>
<td>0.007 Nm</td>
<td>0.33 kg</td>
<td>70 x 70 x 25 mm</td>
<td>10 - 14 VDC</td>
<td>&lt; 1.0 W</td>
<td>&gt; 5 years</td>
<td></td>
</tr>
<tr>
<td><strong>RWP500</strong></td>
<td>0.50 Nms</td>
<td>0.025 Nm</td>
<td>0.75 kg</td>
<td>11 x 11 x 3.8 cm</td>
<td>22 - 34 VDC</td>
<td>&lt; 6 W</td>
<td>&gt; 10 years</td>
<td></td>
</tr>
<tr>
<td><strong>RW1</strong></td>
<td>1.0 Nms</td>
<td>0.07 Nm</td>
<td>0.95 kg</td>
<td>11 x 11 x 5.4 cm</td>
<td>22 - 34 VDC</td>
<td>&lt; 10 W</td>
<td>&gt; 10 years</td>
<td></td>
</tr>
<tr>
<td><strong>RW4</strong></td>
<td>4.0 Nms</td>
<td>0.25 Nm</td>
<td>3.2 kg</td>
<td>17 x 17 x 7 cm</td>
<td>22 - 34 VDC</td>
<td>&lt; 10 W</td>
<td>&gt; 10 years</td>
<td></td>
</tr>
<tr>
<td><strong>RW8</strong></td>
<td>8.0 Nms</td>
<td>0.25 Nm</td>
<td>4.4 kg</td>
<td>19 x 19 x 9 cm</td>
<td>22 - 34 VDC</td>
<td>&lt; 10 W</td>
<td>&gt; 10 years</td>
<td></td>
</tr>
</tbody>
</table>

**Power @ Full Momentum**:<br>
- **RWP015**: < 1.0 W<br>
- **RWP050**: < 1.0 W<br>
- **RWP100**: < 1.0 W<br>
- **RWP500**: < 6 W<br>
- **RW1**: < 10 W<br>
- **RW4**: < 10 W<br>
- **RW8**: < 10 W

**Design Life**:<br>
- **RWP015**: > 5 years<br>
- **RWP050**: > 5 years<br>
- **RWP100**: > 5 years<br>
- **RWP500**: > 10 years<br>
- **RW1**: > 10 years<br>
- **RW4**: > 10 years<br>
- **RW8**: > 10 years

**Integrated Electronics**: Yes

**Typical Data Interface**: RS-422