GOLD BEE
World’s smallest most powerful servo drive for Harsh Environments

The Gold Bee is the smallest, high-powered servo drive on the market today. It is designed to operate under extreme environmental conditions, whether in extended temperatures, high altitudes, high mechanical shocks or intensive vibrations. Weighing just around 20 grams and less than 13 cm³ in volume, the Gold Bee is the ideal servo drive to be mounted anywhere; right on the motor, on moving axes, in drones, or within robotic joints.

Its unparalleled power density is possible due to Elmo’s proprietary and innovative Fast and Soft Power Switching Technology (FASST), resulting in over 99% efficiency and negligible EMI.

- Operates in extreme temperatures
  -40°C to +70°C
  (-40°F to +160°F)

- Operates in altitudes
  -400m to 12,000m
  (-1,312 to 39,370 feet)

- Operates under mechanical shock or intensive vibrations
  up to 2000Hz, up to 14grms

**The Gold Bee has successfully passed the HALT test for accelerated temperature and intensive vibration, still runs at -75°C to +110°C and up to 30grms**

- up to 5kW
- up to 80A
- up to 200V

World’s highest power-density servo drive
Ultra-High Current
Supply voltage
World's Smallest STO (SIL-3) certified servo

<table>
<thead>
<tr>
<th>Feature</th>
<th>Cont. Current (A)*</th>
<th>Max DC (V)</th>
<th>Max. Cont. power (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>80/80</td>
<td>80</td>
<td>80</td>
<td>&gt;5000</td>
</tr>
<tr>
<td>10/100</td>
<td>10</td>
<td>100</td>
<td>805</td>
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<tr>
<td>15/100</td>
<td>15</td>
<td>100</td>
<td>1210</td>
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<td>100</td>
<td>2015</td>
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<td>4000</td>
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<td>10/200</td>
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<td>200</td>
<td>1650</td>
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*amplitude sinusoidal  **More versions available

UGV Traction & Steering Control
Airborne Inertial Platform Stabilization
Underwater ROV Thruster
Camera & Laser Pod Tracking
Robotics Mobile Surveillance Robotics
Missile Guidance Control

In accordance with all safety requirements as per UL 61800-5-1

World's Smallest STO (SIL-3) certified servo

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