

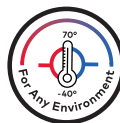
Gold Bee

World's Smallest Most Powerful Servo Drive for Harsh Environments



The Gold Bee is a tiny, highly intelligent, high-powered servo drive. Weighing only 20grams, the Gold Bee is the ideal servo drive to be "mounted anywhere". For example: Right on the motor, on moving axes or within robotic joints.

Its unparalleled power density is a result of Elmo's proprietary and innovative Fast and Soft Power Switching Technology (FASST), resulting in over 99% efficiency and negligible EMI.



Up to
5.5kW

World's highest power-density servo drive

Up to
80A

Ultra-High Current

Up to
200V

Supply voltage



UGV
Traction & Steering Control



Airborne
Inertial Platform Stabilization, UAV



Underwater
ROV Thruster



Camera & Laser Pod
Tracking



Missile
Guidance Control



| Model** | Cont. Current (A)* | Max Voltage (VDC) |
|---------|--------------------|-------------------|
| R80/80 | 80 | 80 |
| R50/100 | 50 | 100 |
| 25/100 | 25 | 100 |
| 10/200 | 10 | 200 |
| 15/100 | 15 | 100 |
| 10/100 | 10 | 100 |

*Amplitude sinusoidal **More versions available



Operates in extreme temperatures

-40°C to 70°C
(-40°F to 160°F)



Operates in altitudes and high pressure

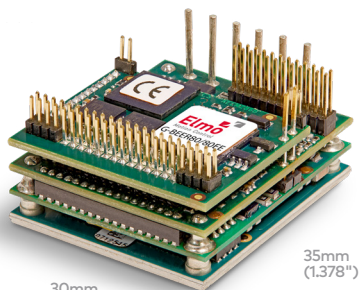
-400m to 12,000m
(-1,312 to 39,370 feet)



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



30mm
(1.181")

35mm
(1.378")

Actual Size



Smallest STO (SIL-3) certified servo

- IEC 61800-5-2 (SIL3)
- ISO 13840 (Cat3, PLe)

EtherCAT[®]
Conformance tested

CANopen[®]



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