

HELIOS™

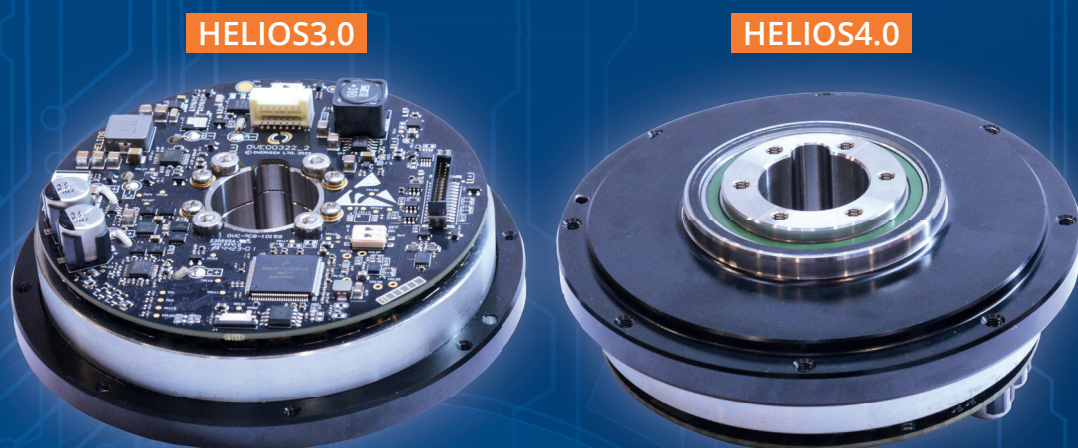


Servotorq™ Integrated Servo Drive

Part Numbers

Helios3.0 – OVU20070

Helios4.0 – OVU20065



Key Features



Servotorq II



Agility



Silence



Accuracy



Easy Integration



Stabilisation

Key Parameters – Helios3.0

3.0Nm

TORQUE

48v DC

VOLTAGE

0.92kg

WEIGHT

1000°/s

MAX SPEED

Key Parameters – Helios4.0

4.0Nm

TORQUE

48v DC

VOLTAGE

1.3kg

WEIGHT

720°/s

MAX SPEED

Specification

Electrical Specification	Helios3.0	Helios4.0
Nominal voltage	48V DC	
Current at max torque (at nominal voltage)	1.0A (SW limited)	
Initialisation current	<1A (load dependent)	
Idle, no load, current	32mA @48V (typical) 35mA @48V (maximum)	
Position command & readback resolution	0.0055°	
Maximum speed (*DTG Off)	1000°/s	720°/s
Maximum speed (*DTG On)	720°/s	540°/s
Min. non-zero speed	0.05°/s	
Default acceleration	30,000°/s ²	
Control protocol	I ² C and CAN	
Environmental Specification		
Operational temperature range	-20°C to +70°C	

Mechanical Specification	Helios3.0	Helios4.0
Weight	0.92kg	1.3kg
Rotor moment of inertia	Approx. 12kg cm ²	
Stall torque	3.0Nm	4.0Nm
Moving torque (at 360°s ⁻¹)	2.1Nm	2.2Nm
Perpendicularity	<+/-0.5°	
Maximum radial load	1000N	
Maximum axial load	1500N	
Bearing type	Deep groove ball bearing (shielded)	
Rotation range	Hardware: range continuous Software: optional end-stops configurable between 0°-360°	
Hollow spindle bore internal dia.	25mm	

*DTG- Dynamic Trajectory Generator
Note: Specifications subject to change without notice.