

SS250 PAN & TILT

Deepwater Pan and Tilt Assembly

Features

- Small Footprint
- Dependability and Ease of Maintenance
- Low Backlash Gear Drives and Motors
- Precision Ball Bearings



Description

SS250 deepwater pan and tilt assembly is a powerful robotic positioning device. Within a small footprint, you are now able to position heavy loads with ease and high accuracy. Like the SS109, the SS250 gains its dependability and ease of maintenance through integration of reversible synchronous motors, extremely low backlash harmonic drives and precision ball bearings into a unique modular motor assembly.

This workhorse offers impressive torque ratings up 65 ft-lbs securely locked into the corrosion resistant, one-piece underwater housing. The distinctive modular design, simplifies field repair to using only small hand tools. Modifications can be made to include feedback circuits and limit switches for applications where rotational information is vital.



Specification – SS250 PAN & TILT

MECHANICAL

Gears:	Precision Strain Wave Gearing
Backlash:	36 arc Minutes (approx. 0.5°)
Dimensions:	11.5in x 9.7 in x 5.1 in (292mm x 246mm x 137mm)
Weight in Air:	22.9lbs (10.4kg)
Weight in Water:	13.5lbs (6.1kg)
Pressure Compensator:	Internal Diaphragm
Position Limits:	(optional) +/-175° Pan, +/-90° Tilt

ENVIRONMENTAL

Operating Depth:	Up to 10,000ft (3,000m) with Internal Compensation Up to 20,000ft (6,000m) with External Compensation
Temperature Range:	-20°C to 50°C (-4°F to 122°F) Operating -30°C to +60°C (-22°F to +140°F) Storage
Housing Material:	Anodized 6061-T6 Aluminium
O-ring Material:	Buna
Fastener Material:	316 Stainless Steel

ELECTRICAL

Input Voltage:	15 - 30Vdc
Maximum Drive Current:	300mA to 2.2 A Per Axis (24Vdc serial, speed dependant) 2.0A Per Axis (24Vdc analog)
Maximum Static Current:	300mA to 1.2A Per Axis (24Vdc serial, customer selectable) 1.0A Per Axis (24Vdc analog)
Maximum Output Torque:	65 ft-lb (88nm)
Maximum Payload:	150lbs (68kg)
Output Speed:	0.5 to 35 deg/s
Position Feedback:	12 Bit Resolution (approx. 0.1°)
Communication:	Analog, RS485, RS422 or RS232
Connector:	Large Selection of Connectors Available

