



SS350 Heavy Duty Rotator

Sidus Solutions' SS350 deepwater rotator 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 SS350 gains its dependability and ease of maintenance through integration of DC stepper 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.

Electrical

Input Voltage	15-30 VDC
Maximum Drive Current	300mA – 2.2 A (24 VDC serial, speed dependent) 2.0 A (24 VDC analog)
Maximum Static Current	300mA – 1.2 A (24 VDC serial, customer selectable) 1.0 A (24 VDC analog)
Maximum Output Torque	65 ft-lb (88 Nm)
Maximum Payload	150lbs (68kg)
Output Speed	0.5 to 35 deg/s
Position Feedback	12 bit resolution (approx 0.1°)
Communication	Analog, RS-485 or RS-232
Connector	Customer selectable – Seacon Brantner is standard

Environmental

Operating Depth	Up to 100 ft (30 m) air filled Up to 10,000 ft (3000 m) with internal compensation Up to 20,000 ft (6000 m) 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 Aluminum
Fastener Material	316 Stainless Steel

Mechanical

Gears	Precision strain wave gearing
Backlash	<36 arc minutes (approx 0.5°)
Dimensions	4.6 in OD x 9.7 long (117mm OD x 228mm long) 6.7 in (171mm) Flange OD (Flanged Version only)
Weight in Air Straight	14.5lbs (6.6kg) oil filled, 12.7lbs (5.8kg) air filled
Weight in Water Straight	9.3lbs (4.2kg) oil filled, 8.2lbs (3.7kg) air filled
Weight in Air Flanged	15.5lbs (7.1kg) oil filled, 13.7lbs (6.2kg) air filled
Weight in Water Flanged	9.9lbs (4.5kg) oil filled, 8.7lbs (4.0kg) air filled
Pressure Compensator	Internal diaphragm (oil filled version)
Position Limits	(optional) +/-175° (other configurations available)