



SS351 Heavy Duty, Stainless Steel Rotator

Sidus Solutions' SS351 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 SS351 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 316 stainless steel 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

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| 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 1.0 | 300mA – 1.2 A (24 VDC serial, customer selectable) 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

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| Operating Depth | 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 | 316 Stainless Steel |
| O-Ring Material | Viton |
| Fastener Material | 316 Stainless Steel |

Mechanical

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| Gears | Precision strain wave gearing |
| Backlash | 36 arc minutes (approx 0.5°) |
| Dimensions | 11.5 in x 9.7 in x 5.1 in (292mm x 246mm x 137mm) |
| Weight in Air | 21.5lbs (9.8kg) |
| Weight in Water | 12.8lbs (5.8kg) |
| Pressure Compensator | Internal diaphragm |
| Position Limits | (optional) +/-175° Pan, +/-85° Tilt (other configurations available) |