



DATA SHEET

SEALION III

OVERVIEW

Sealion III is a purpose-designed trenching ROV with 600 horse power. The vehicle can bury submarine cable and pipeline at up to 3m below the seabed. Sealion III was built in 2010 and is equipped with state-of-the-art TSS 440 and 350 dual cable tracking systems, which enable constant cable and pipeline location data to ensure positioning and burial depth accuracy. Sealion III represents the cutting-edge of technology in submarine cable and pipeline burial methodology.

KEY FEATURES

- Intelligent Power Control
- Hydrodynamic design with high power thrusters to allow operations in 3 knots of current
- High Flow design with 2m and 3m jetting tools
- Jetting tools with adjustable width capability accommodate a wide range of submarine cable and pipeline products
- Advanced cable depressor system equipped with sensors
- Integrated cable recovery system to achieve operational flexibility and faster cable repair speed

MAIN DATA

	Free fly mode	Tracked mode
Length	6.5m	6.5m
Width	3.7m	5.2m
Height	3.1m	3.1m
Weight (in air)	17,250kg	18,400kg
Speed	Fwd/Aft 3 knots Lateral 2 knots	Fwd/Aft 1.1 knots -
Depth rated	Up to 2,500m	
Propulsion	6 x Curvetech HTE500 Horizontal thrusters 4 x Curvetech HTE500 Vertical thrusters	
Power requirement	440 Volts AC, 3 Phase 60Hz, 1250A	

BURIAL CAPABILITY

Jetting power	Tracked mode: Up to 2000m ³ /hour at 400kW (Water flow at 5 bar) Free fly mode: Up to 1500m ³ /hour at 350kW (Water flow at 4.2 bar)
Burial depth	Cable: Up to 3m Pipeline: Up to 2m
Soil strengths	0-150kpa
Burial speed	600m/hour
Size of product	Cable: Up to 150mm diameter Repeater/joints: 180mm to 380mm diameter Pipeline: Up to 300mm diameter

All performance figures quoted are nominal, actual performance is dependent on environmental conditions prevailing at the time of operations.

SURVEILLANCE EQUIPMENT

Video equipment	4 x Kongsberg OE14-367 NTSC Color Zoom camera 1 x Kongsberg OE13-125 NTSC BIT (Black Illuminated & Thinned) camera 1 x Kongsberg OE14-377 NTSC Mini color camera
Pan & Tilt	4 x Kongsberg OE 10-102 Elec Pan/Tilt unit 1 x Kongsberg OE 10-103 Elec Rotator unit
Sonar	1 x Tritech Super Seaking OA sonar
Cable location system	TSS 440 and 350 dual tracking system
Altimeter	1 x Tritech Altimeter PA500
Lighting	Up to 10 x 4500m DSPL Multi-Sealite 3 Halogen Lamps 250 W (with dimming control)
Acoustic positioning	2 x AAE Midi Beacon, model 949
Gyro	1 x Tritech iGC/iFG fibre optic gyro



Sealion III working on Wando-Jinsan power cable PLIB (2017)

TOOL PACKAGE

Manipulators	Two Schilling Orion 7 functions arms
Cable cutter	NHS HCV-100 (cable & umbilical)
Cable gripper	PSSL TA17
Cable grapnel kit	2m or 3m jetting tool with cutting function
Dredge tool	2m/3m twin legs, twin forward jet device Hand jet tool
Depressor	2m & 3m depressors hydraulically actuated with position feedback and 3 cable detector sensors



Deploying Sealion III during a telecom fibre optic cable repair operation (2020)

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