

Seamole



Technical specifications



DESCRIPTION

Sea Mole provides high power trenching capability for the burial of cables up to a depth 3.0m. Sea Mole is a high powered class-leading Trenching ROV with 1200HP, utilising either high flow or high pressure water jetting to optimize trenching in order to suit the seabed conditions. The vehicle can be fitted with a rear eductor, or backwash swords, to enhance burial in specific soil conditions. Sea Mole is configured to cover a range of burial depths up to 2.5m, maintaining this depth even in strong soils. Fitted also with a Teledyne Dual Track TSS440 & 350 allowing Sea Mole to provide real-time burial data to ensure project deliverables are being met right away.



KEY FEATURES

- Self-propelled tracked vehicle
- Variable 1000HP (800kW) high flow or high pressure jetting for optimized trenching
- Rear eductor or backwash system
- Modular / Transportable Self-sufficient Remotely Operated Vehicle System
- Full Surveillance Suite
- TSS Dual Track 350 & 440 Cable Detection and Tracking System
- Two SEL TA40 manipulators (if required)
- Cable Cutter (if required)
- Dedicated launch and recovering system

CABLE DETECTION SYSTEM

- Tone Detection: Teledyne TSS 350
- Pulse detection: Teledyne TSS 440
- Other: TSS 440 frame hydraulically operated

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

GENERAL

Depth Rating	2000 m
Dimensions (LxWxH)	5.5 m x 5.1 m x 3.0 m
Weight in air	24 tons
Submerged Weight	20 tons

PERFORMANCES

ROV Power	1200 HP (900kW) Total Power
Jetting Power	1000HP (800kW) Total Jetting Power 2 x 300kW VSD pumps 1 x 200 kW hydraulically driven pump
Forward Speed (tracked mode)	0 to 2km/h

SUBSEA JETTING SYSTEM

Main Jet Tool	Twin jet swords with downward, inner facing and backwash nozzles. Nozzles layout interchangeable according to water pump configuration
Operating pressure	5 to 15 bar (depending on surface supply system)
Water Flow	960 to 3000 m3/h dedicated to main jet tool
Trench Depth	0 to 2.4 m standard extendable to 3.0m
Jet Tool width	Up to 400mm

SUBSEA ELECTRONICS

Cameras	Up to 6 video channels (4 x colour CCD zoom, 1 x monochrome SIT, 1 x spare channel)
Lamps	8 x 250W dimmable 2 x DSP&L SeaLite Sphere LED
Gyro	iXBlue Octans MKIII
Sonar	OAS 1 x Tritech Super SeaKing
Bathy / Altimeter	Tritech SK704 / Tritech PA500
Electronics Pod	2 x Atmosphere pressure vessel