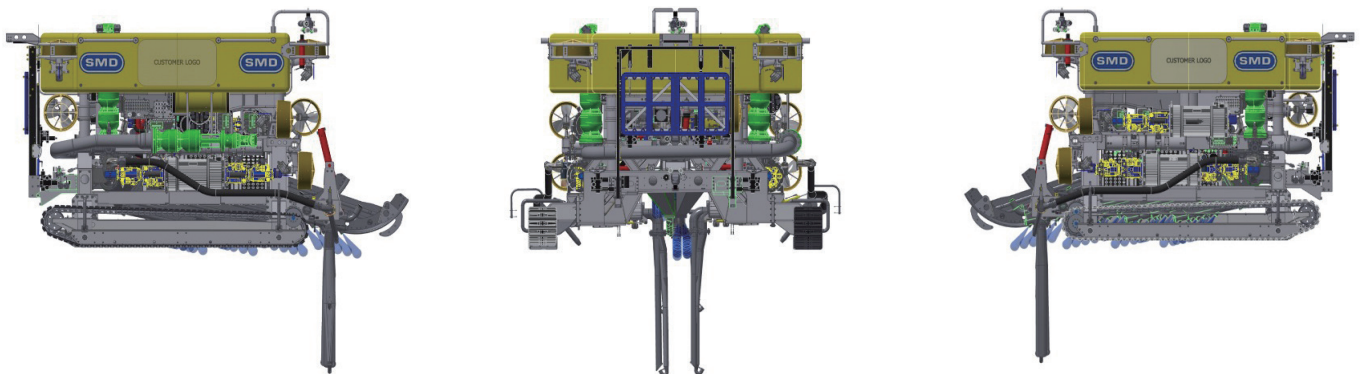


3.0m Trenching ROV System with 1,500HP

QT1500 ROV



QT1500 ROV system is newly supplied by SMD, and is track & free swimming type ROV for cable & pipes up to 1,000m water depth. Maximum burial depth achievable is 3.0m (subject to soil conditions) with 1,500HP of power and QT1500 ROV trenches down telecom & power cables, as well as small diameter pipelines.

3.0m Trenching ROV System with 1,500HP

QT1500 ROV

General

Depth Capability	- 5 to 1,000m Water Depth
	- Length: 5.50m (Tracker Stowed)
Dimensions	- Width: 5.50m (Over Track Guides)
	- Height: 3.35m (Excluding Lift Point)
Weight in Air (Estimated)	- Up to 26.0tonnes (with Skids)
	- Up to 28.0tonnes (with Tracks)

Power Distribution

Subsea Power	- 3 X 500hp (375kW), 4 pole, 60Hz motors (Manufacturer-Sytek / SME)
	- Forward / Reverse: 2 X Curvtech HTE500
Horizontal Thrusters	- Left / Right: 2 X Curvtech HTE500
	- Rear (Balance): 2 X Curvtech HTE500
Vertical Thrusters	- 4 X Curvtech HTE500
Thrusters	- Individual Isolation, 5 Thruster Voids per Compensator

Performance

	- 2,600kg in Free Swimming Mode (FWD / AFT)
Maximum bollard pull	- 1,300kg in Free Swimming Mode (Lateral)
	- 600kg Additional from Track Drive
	- Vertical: Up to 2.0knots
Predicted Performance	- FWD / AFT: Up to 3.5knots
	- Lateral: Up to 2.0knots
Predicted Power	- Minimum of 50kW to Any Thruster (Approx. 900kgf)

Eductor Tool

Trenching Depth	0~2.0m - Continuously variable through smart hydraulic cylinder
Product Size	Up to 650mm

Burial Performance

Power	- Two vertically & One horizontally mounted hydraulically driven water pumps Variable speed control from surface 0-300kW per pump (0~350kW in tracked mode)
Pressure	- 7-15bar approx. Flow rate up to 1,730m ³ /hr @ 10.5 bar
Trench Depth	- 0.0 ~ 3.0m (3m swords included): Continuously variable through Smart hydraulic cylinder - 0.0 ~ 2.0m (2m swords included): Continuously variable through Smart hydraulic cylinder
Min. Leg Width	100mm
Max. Leg Width	Up to 650mm
Cohesive Soil	Up to 100kPa
Non Cohesive Soil	Sand, silt and gravel to 30mm

Camera & Sensor

Camera	- 3 x Colour Zoom (Kongsberg OE14-367A NTSC) - 1 x Low Light BIT (Kongsberg OE13-125 NTSC)
TSS 350	- Subsea Cable Detection & Tracking System Tone frequency discrimination
TSS 440	- Subsea Pipe & Cable Detection & Tracking System Pulse induction technology allows accurate survey Information regardless of vehicle heading
SONAR	- Kongsberg Mechanical Scanning Sonar 1171 (MS1000 SCU)

Both Track & Skid Mode

Configuration	- Track modules bolt to chassis (Interchangeable with skids)
Track Drive	- Hydraulic independent proportional drive to track - Track Tension controlled by oil filled piston
Bearing Capacity of Soil (kPa) beneath Track/Skid	5kPa