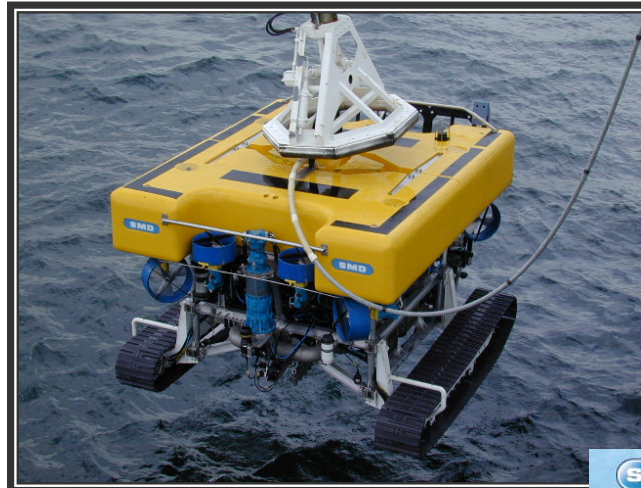


TYCO Nereus Cable Maintenance ROV



SMD Hydrovision

SMD Nereus 300kW Trencher

ROV SYSTEM SPECIFICATION

Manufacturer:	SMD (SOIL MACHINE DYNAMICS LTD) UK
Type:	Cable Maintenance Remote Operated Vehicle
Rated Water Depth	2,500 meters
Power	300 kW
Configuration	Free Fly & Tracked Modes
Burial Performance	up to 1.5 m standard

(NB: Tyco's Nereus ROVs are available with 2 m swords as an optional upgrade)

The 300 kW Nereus type is a highly flexible cable maintenance ROV system offering two modes of operation; 'Free flying' and 'Tracked' capable of operating down to a water depth of 2500m..

The tracked mode requires significantly less hydraulic power for moving the vehicle forward and therefore allows more power to be directed to the jetting system. All of the power can be used to drive the thrusters when free swimming. When jetting, up to 250kW of this hydraulic power is directed to drive the water pumps on the jet tool

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Telecommunications

General

Thruster Configuration	4 Horizontal
.....	4 Vertical
Dimensions Free Fly	
Width.....	3.2m
Length.....	3.8m
Height	2.5m
Vehicle Weight in Air	
Free Fly	8300kg
Tracked.....	9500kg
Water Jetting.....	2 x variable speed hydraulic drive, single stage pumps
Max pressure	5 bar
Max flow	16,000 lpm
Jetter Width.....	variable up to 400mm

Surveillance Equipment

Cameras	3 color
.....	3 monochrome
Lights	2 x 150W dimmable
.....	10 x 150W
Pan & Tilts.....	3 x pan & tilts
.....	2 x rotators
Sonar	1 x Kongsberg Simrad MS900 OA
<i>optional upgrade</i>	2 x <i>Tritech Sea King Profilers</i>
Vehicle Tracking.....	2 x Responder/Transponders
Cable Location System.....	TSS340/350 Dual Track
Cable Handling	2 x Schilling Conan manipulators
.....	7 function rate controlled
.....	1 x WebTool HCV100 cable cutter
.....	1 x Slingsby TA17 Cable Gripper 15-100mm