

Remotely Operated Vehicle



ROV name:

NAVIGATOR

The Normad Navigator is a high end observation electric / hydraulic compact ROV system. It was built for rapid deployment situations on vessels of opportunity.

NAVIGATOR SPECIFICATIONS

ROV General

Depth Rating	: 600/300 metres
Length	: 1.2 metres
Width	: 0.95 metres
Height (Free Swimmer)	: 1.2 metres
Weight (Free Swimmer)	: 400 kg
Height (Extra Thruster)	: 1.34 metres
Weight (Extra Thruster)	: 600 kg
Payload	: 200/400 kgs
Frame Construction	: AL
System Power	: Electrical 440V

Winch System

Propulsion

Horsepower	: 75
Forward/Aft (Bollard Pull)	: 0-440 kg
Port/Starboard (Bollard Pull)	: 0-370 kg
Vertical Up/Down	: 110/220 kg
Lateral	: 1000 kg

Camera and Sensor Package

Fly Eye Camera	: Multiple cameras whereby 5 cameras from a semi-sphere to substitute a pan and tilt camera
Auxiliary Cam	: 1 x CCD Low light camera

Tooling

Manipulator	: 6 Function (TMT)
Grabber	: 2 Function (TMT)
T3 Pack	: T3 7-Function + Grabber 2-Function

Control Van/Workshop

Length	: 3.0 metres
Width	: 2.2 metres
Height	: 2.4 metres
Weight	: 4000 kg
Rating	: Unzoned or Zone One/Class 1
Certification	: DNV

Launch & Recovery Systems

Umbilical Diameter	: 25.6mm
Drum Capacity	: 660/3300 metres
Base Length	: 1.35 metres
Base Width	: 2.2 metres
System Height (Extended)	: 3.8 metres
System Height (Slowed)	: 2.95 metres
Weight	: 3000/14,000 kgs
System Power	: Electrical/Hydraulic

Equipment Description

The Nomad Navigator (work class) ROV system was built in 2002. The following information defines the current system configuration. Many other tooling options are available upon request.

System Includes

- 75 Horsepower ROV rated to 400 MSW
- Deck Winch, with fibre optic, armoured umbilical
- Main winch able to be fully operated in local or remote mode
- 2x VHS digital recorders
- 3x monitors in ROV control room for viewing ROV and deck activity
- 2x Deck cameras for the LARS and winch area
- TMT Full Matrix video switching system
- Fibre Optic Video and data transmission in main umbilical with a 3rd party interface
- High-resolution colour camera (pan and tilt mounted) (Flys eye)
- 1x colour pencil camera deployed on flying leads around the ROV
- 6x generally mounted cameras
- Imaginex 881-A high resolution scanning sonar
- Precision instruments depth gauge
- KVH Digital Heading Sensor (with Dinsmore magnetic heading sensor back-up)
- Auto depth/auto heading, temperature sensor with fulltime bathymetry display
- 1 x 7-function grabber
- 1 x 2 function grabber
- Hydraulic cut
- Control Van/Workshop
- Maintenance area at back control shack with bulkhead separation
- Complete inventory of system spares
- Mechanical and electronics tools and test equipment
- Rig harmonised power conditioned electrical supply
- T3 manipulator deployment platter

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