

Marine Institute Deepwater Remotely Operated Vehicle



Features

- 3000metre depth rating
- 100hp Power Pack
- Designed with functionality and payload to fulfill a variety of applications
- 3300 meter umbilical winch
- A-Frame and Skid with Docking head

The Marine Institute deepwater ROV system is a complete self contained deepwater ROV system. The system is designed for deployment from the MI Research vessel *Celtic Explorer* and is also capable of deployment from vessels of opportunity



Marine Institute
Foras na Mara

Specifications

Dimensions

Length	3018mm
Width	1810mm
Height	1790mm
Weight in Air	3240kgs
Payload (with manip)	312kgs
Through Frame Lift	2000kgs
Depth Rating	3000msw

Propulsion

Shaft Power	75 kw
Hydraulic Power	100hp

Thrusters

Horizontal vectored :
4x Curvetech -HTE 380BA

Vertical

3x CurvetechHTE 300BA

Forward bollard pull >800kgf

Vertical bollard pull >800kgf

Lateral bollard pull 550kgf

Auto Features

Depth, Altitude, Heading , Position, Step

Lighting/Cameras

Cameras

1 x near sit,

1 x b/w1 x oe 14-366 colour zoom

1 x oe 14-208 Digital stills

1 x oe 14-502a HDTV inspection camera

4 x spare camera channels

Lighting

8 x variable intensity 250 watt halogens fitted

Provision for 4 x additional 250-watt lamps + 2 x 400watt HID

Positioning

Usbl IXSEA GAPS

Beacon Type 2 x MT832 beacons

Instruments/Tooling

Spare Hydraulic Channels

17 spare channels + 2 way High Flow circuit

Video Channels: 4 spare + survey

Fibre

Gyro FOG, Gyro Compass

DVL 1200kHz RDI Workhorse

Altitude Trittech PA500

Depth Digiquartz 8000

Sonar Super Seaking

Optional Items

Multibeam Seabat 7125

CP /TSS 2 x CP +TSS pipetracker

Spare Electrical/Electronic Ports

8 x RS485/232, 10 x I/O

12, 24 ,48 VDC, 110VAC

Manipulators

5F 1x Rigmaster 2 5f Grabber

7F 1 x 7F Schilling Orion(P)

Control System

System SMD DVECS ROV Control

Hardware

dual touchscreens8 x 19" TFT Video Wall

2x dvd recorders

1 X hdtv HD recorder

Control Cabin 20ft, A60 ISO

Workshop Cabin 20ft, A60 ISO

Power 380-480VAC 50/60hz

Tms

Type SMD Tophat TMS

Tether Length 400 metres

Features 2 x cameras

Handling System

Umbilical winch

SMD winch with 3300m 31.7mm SWA umbilical.

Weight 23.4 Tonnes

A –Frame

Docking head with snubber and rotator

Weight 18.07 Tonnes

Research Vessels Operations

Marine Institute, Rinville, Oranmore, Co. Galway

Tel: +353 91 387200 Fax: +353 91 387201 Email: rv@marine.ie Web: www.marine.ie