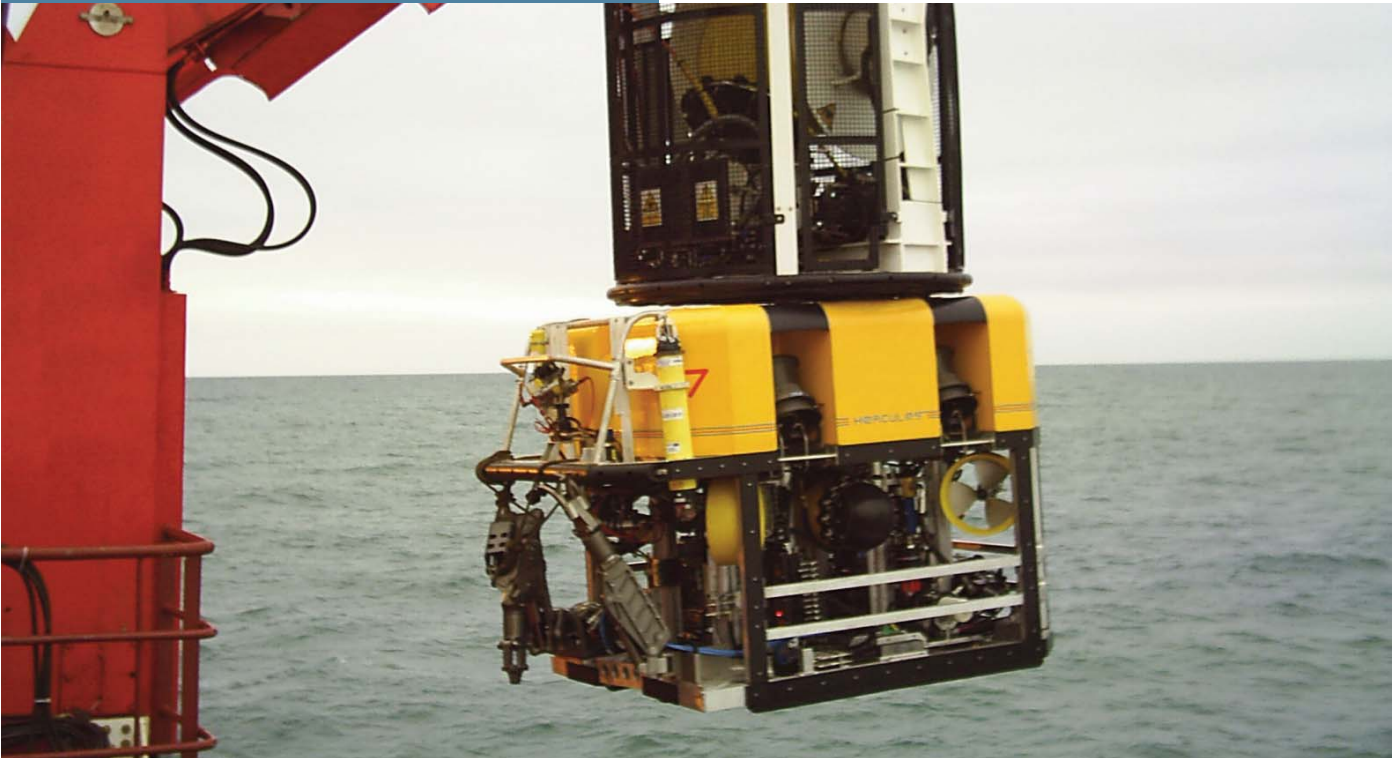


Hercules

WORK-CLASS ROV



The Hercules is a heavy-duty work-class ROV system designed for ultra-deepwater operations. Building on the successes of the Centurion series of work-class systems, the Hercules is designed and built in-house and is the result of years of experience at the forefront of ROV operations.

With four vertical thrusters and a 120hp HPU, the Hercules has a through frame lift of four tonnes and is capable of operating multiple tooling arrays with ease.

- 3000m depth rating
- 4.0 tonne through frame lift
- 120hp hydraulic power unit
- Weight in air 2750kg
- Designed & built in-house
- Ultra-deepwater & heavy lift capabilities
- Top-hat tether management system or free-swimming modes
- Wide range of manipulators & intervention tooling

Dimensions & Weights

Length	2400mm
Width	1850mm
Height	2050mm
Weight in Air	2750kg
Through Frame Lift Capacity	4000kg
Payload	150kg
Depth Rating	3000msw

Propulsion System

The vehicle is propelled by 8 proportionally controlled thrusters

Shaft power	120hp/ 89kW
Forward	>705kgf
Vertical	>456kgf
Lateral	>705kgf
Thruster configuration:	Four horizontal vectored, four vertical

Video System

Recording Format	DVD
Provision for six cameras	
All cameras with focus controls, two with zoom control	
Fibre optic video transmission	
Channels	16 input & 16 output
Surface SVHS compatible video switcher	

Light Output (available)

Standard fit of four 500W variable intensity standard fit lights or eight 250W diffused lights

Control Sensors

Auto heading
Auto depth
Auto Altitude (with optional altimeter)

Indication Sensors

Heading	+/- 1.0 degree
Pitch & roll	+/- 1.0 degree
Altitude	+/- 0.025%
Depth	+/- 0.01%
Water ingress	
Low oil alarm	
Hydraulic temperature	
Hydraulic pressure	
Line insulation monitoring	
Vehicle turns	
Pod vacuum & temperature	
ROV & TMS mux status	
HPU motor temperature	
Status of each analogue & digital signal	

Manipulators

Right-hand	
- standard	Schilling Conan 7P
- optional	Schilling Titan 3
Left-hand	
- standard	Schilling Rigmaster 5F Grabber
- optional	Schilling Conan 7R Schilling Orion 7R

Vehicle Control System

Subsea 7 control multiplexer communicating through Subsea 7 fibre optic interface. Data I/O to surface control multiplexer through serial link to control computer system (PC). Fibre optic interface multiplexes control mux comms plus 7 RS232/RS422/TTL serial links at up to 500 Kbaud on to 2 optical fibres. Data I/O at ROV control mux through parallel expansion bus to expansion PCBs.

Multiplexer Telemetry I/O

ROV Pod	
Digital	48 inputs & 48 outputs
Analogue (12-bit resolution)	40 inputs & 24 outputs
Relay control outputs (digital)	12
Solenoid valve driver outputs (digital)	
24 double acting valves	48

Control Console

All channels can be monitored and controlled via serial communication from the ROV control computer

Computer Control

Digital	144 inputs & 96 outputs
Analogue (12-bit resolution)	20 inputs

Channels Available for Direct Multiplexer I/O

Analogue (12-bit resolution)	8 inputs & 8 outputs
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Gyro Compass System

- standard	Bendix King KCS305 Accuracy: 2.0
- option	True North Seeking Gyro

Location System

Various sonar system options
Transponder/ responder

Optional Tether Management System (TMS)**Slingsby**

Top-hat Design

Height	2080mm
Diameter	1830mm
Weight in Air	2300kg
Tether capacity	250m - 300m

Electrical Supply Requirements

300Kva	440-440Vac
Three phase	60Hz