

warrior



2.8 tonne through lift frame @ 4g

100 or 120hp options

hercules control system

The Warrior workclass ROV system has been designed and built using technology established in Subsea 7's highly successful Clansman Drill Support ROV. The Warrior has a 100hp hydraulic system, and together with four axial and two vertical thrusters the vehicle is highly manoeuvrable and extremely proficient when operating in high current conditions.

The vehicle benefits considerably through a reduction in weight and physical size through the efficient positioning of the basic control systems, achieving a high power to weight ratio and making the system ideal for applications where deck space and/or loadings may be limited.

The Warrior has been built to perform a large number of underwater tasks, and with a through frame lifting capacity of 2,800kg @ 4g (equivalent to 3,733kg @ 3g) allows additional tooling to be interfaced to the vehicle as required. The vehicle is also fitted with an impact resistant polyethylene perimeter frame to minimise damage to the primary frame.

warrior

Dimensions & Weights

Length	2000mm
Width	1700mm
Height	1600mm
Weight (in air)	1700kg
Through frame lift	2800kg
Payload	100kg
Depth rating (standard)	1000msw
Depth rating (optional)	1500msw or 2000msw

Propulsion System

The vehicle is propelled by six Innerspace thrusters or six Curvetech thrusters (as option).

Shaft power (standard)	75kW (100hp)
Hydraulic power (standard)	65kW (87hp)
Forward	560kgf
Vertical	350kgf
Lateral	560kgf
Thruster configuration:	four horizontal vectored, two vertical vectored
Shaft power (option)	90kW (120hp)
Hydraulic power (option)	77kW (103hp)
Forward	704kgf
Vertical	350kgf
Lateral	704kgf
Thruster configuration:	four lateral vectored, two vertical vectored

Optics & Lighting

Format	SVHS or VHS
Provision for six cameras	
All cameras with focus controls, two with zoom control	
Fibre optic video transmission	
16 in, 16 out S-VHS compatible video switcher (surface option)	

Light output (available):

4 x 500W variable intensity standard fit of eight 250W diffused lights

Control & Sensors

Auto heading
Auto depth

Indications/Sensors

Pod vacuum and temp	HPU temp
Hydraulic pressure	Vehicle turns
ROV mux status	Hydraulic temp
Water ingress	Compensator volume
HDU windings temp alarm	Altitude (option)
Accustar pitch & roll sensor	
Status of each analogue and digital signal	

Manipulators**Seven function (standard)**

Schilling	T3/Conan
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Five function (standard)

Schilling	Rigmaster
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Vehicle Control System

Subsea 7 control multiplexer communicating through our 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 onto 2 optical fibres. Data I/O at ROV control mux through parallel expansion bus to expansion PCBs.

Multiplexer Telemetry I/O (ROV Pod)

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

Telemetry I/O (control console)

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

Control Computer I/O

Digital inputs	144
Digital outputs	96
(inc 48 solenoid valve status indicators)	
Analogue inputs (12 bit resolution)	20

Channels also available for direct multiplexer I/O

Analogue inputs (12 bit resolution)	8
Analogue outputs (12 bit resolution)	8

Gyro Compass System

Model	Bendix King KCS305
Accuracy	2°

Locating System

Various sonar system options
Transponder/responder

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

Height	2.080m
Diameter	1.83m
Weight	1725kg (air)
Tether capacity	200m

Slingsby

Height	2.10m
Diameter	2.00m
Weight	2300kg (air)
Tether capacity	250m - 300m

Electrical Supply Requirements

440-480Vac	three phase	60Hz
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For further information see www.subsea7.com or contact your regional office.

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