

TECHNICAL SPECIFICATION

Kystdesign Constructor High Flow Edition Work Class ROV System



ROVOP
KNOWLEDGE IN DEPTH

Kystdesign Constructor High Flow Edition Work Class ROV System

MODEL

Kystdesign Constructor High Flow Edition Work Class

MANUFACTURER

Kystdesign

PERFORMANCE, PEAK THRUST

Power	160Kw / 220HP
Bollard Pull FWD/AFT	900kgf
Bollard Pull LATERAL	850kgf
Bollard Pull Vertical UP	800kgf
Bollard Pull Vertical DOWN	900kgf

SPECIFICATIONS

Depth Rating	3000msw
Length	3220mm
Width	1700mm
Height	1900mm
Payload	400kgs
Through-Frame Lift	3000kg
Weight in air	~4600KG
TMS Tether Length	1000m

EQUIPMENT FIT

Manipulators Schilling T4 7F + Atlas 7F Rate Controlled Manip or Rigmaster 5F Grabber options

Low Light Camera

Pilot Camera

Colour fixed focus camera

Full HD video supported via IP cameras and also SD composite inputs.

Depth Sensor

Heading & Dynamic Motion Sensor

DVL

Strobe

Sonar

Lighting

Pan and Tilt

Paroscientific Digiquartz or equivalent

Fibre Optic Gyroscope

Doppler Velocity Log

Self-contained submersible xenon flasher

Dual Frequency mechanical scanning sonar

Up to 10 x AC Fully Dimmable Lighting

2 x Electric

HYDRAULIC CAPACITY AND INTERFACES

Valve Pack No.1	10 x Bi-directional Valves with proportional flow control, each with max flow 10 l/min. Pressure on VP controlled by VP No.3.
Valve Pack No.2	10 x Bi-directional Valves with proportional flow control, each with max flow 10 l/min. Pressure on VP controlled by VP No.3.
Valve Pack No.3	2 x Bi-directional Valves with proportional flow and pressure control, each with max flow 32 l/min. 2 x Directional valves with proportional flow and pressure control, each with max flow 150 l/min
Manifolds	Pressure and return manifolds mounted in front of the ROV. 1 x Pilot operated high flow valve with max flow 300 l/ min on AUX system 1 x Pilot operated high flow valve with max flow 300 l/ min on main system

SYSTEM POWER REQUIREMENTS

400-480VAC, 3 Phase, 60Hz

600A Vessel Supply

800Kva Mobile Generator Supply

The CONSTRUCTOR can accommodate up to 26 additional hydraulic tooling functions, up to 21 additional survey sensors and 9 camera connectors. 24 hydraulic functions are proportionally controlled, and all electrical power supplies are ground fault monitored. The ROV control system offers a variety of auto-functions like AutoPOS and AutoTRACK capabilities. Kystdesign system control architecture is also enabled for future remote operation.