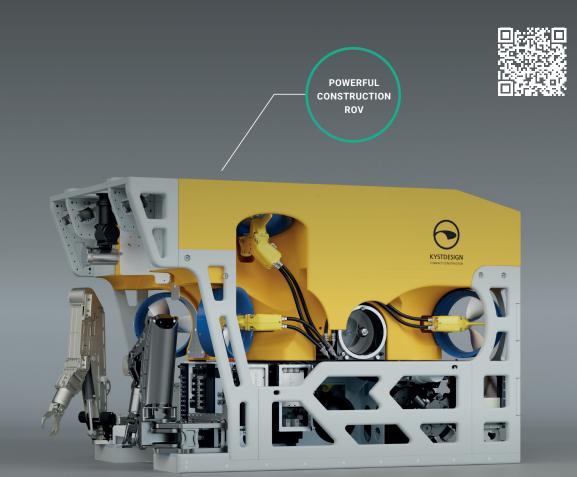
CONSTRUCTOR COMPACT.

A compact version of our trusted Constructor ROV, with high-flow capabilities.



The CONSTRUCTOR technology is refined from years of operational and "hands-on" experience by our designers. The top-side control system for KYSTDESIGN ROV's is designed with focus on providing an ergonomic, intuitive and efficient working environment. Single or dual operation stations can easily be configured to individual needs. Operator task priorities can be switched and shared between stations during operation.



The CONSTRUCTOR ROV accommodates up to 41 electrical connectors for interface of external equipment, such as tooling, survey sensors and cameras, and all electrical power supplies are ground-fault monitored. The ROV also accommodates 24 hydraulic functions, all proportionally controlled.

The ROV control system is prepared for a variety of auto functions like AutoPOS and AutoTRACK capabilities, in addition to over-the-horizon control from a Remote Operation Center (ROC) onshore.

SPECIFICATIONS, CONSTRUCTOR 3000 HIGH-FLOW COMPACT

General: Power	160 Kw / 220 Hp
Depth rating ROV	3000 msw
	3000 msw
Depth rating Buoyancy Dimensions (L/W/H)	2845 / 1700 /1870 mm
Weight	~4400 kg
Payload	>250 kg
Through Frame Lift capacity	3000 kg
Thrusters	7 x SA380
Mechanical Capacity and Inte	erfaces:
Free space inside ROV for	Open area of approx. 460 L through the entire ROV,
utility equipment:	right in front of centre of gravity.
Interface for work modules:	Four docking receptacles underneath the ROV.
	Interface for Sensors and/ or modules by threaded
	inserts on all sides of the buoyancy element.
Manipulators:	Interface for Schilling T4, RigMaster and Atlas.
ivianipalatoro.	interface for comming 14, registator and relace.
Hydraulic Capacity and Interf	aces:
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
valve i dok ivo. o	pressure control, each with max flow 32 l/min
	- 2 x Directional valves with proportional flow and
 Manifolds	pressure control, each with max flow 150 l/min
	(optional flow meter)
	Pressure and return manifolds mounted in front
IVIdIIIIOIUS	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
A O	300 l/ min on main system
Aux System Capacity	260 bar, 300 l/min
Telemetry/Sensor Capacity a	nd Interfaces:
Telemetry Link	By default the control pod and telemetry system are
	prepared for survey operations. Up to 6 fibre optic
	cables are available for communication. Total capacity
	in a standard system is 8 composite video channels,
	36 serial communication channels and expandable to
	include 4 HD video channels (all in a single optical fibre)
	Options are Ethernet, gigabit layer 1 (4 ports) with
	ethernet switch (4 ports), and Multibeam PECL.
Power Distribution	
Power Distribution	All power distributed to external users, such as lights,
	cameras and sensors can be switched on/ off from
	the topside computer and are equiped with individual
	fuses. When a sensor is switched off, it's correspond-
	ing subsea connector is galvanic isolated. Total
	available power 20A @ 115VAC. Available supplies:
	115VAC, 24VDC, 48VDC, others on request.
	May naviar consumption available is 204 @
Tool Interface	Max power consumption available is 20A @

Gyro Interface	Connector type: Seacon MinM-26#20, other on reque
Sensor Interface	10 connectors are prewired for user/survey equipment.
	In addition 9 extra connectors can be installed.
	Survey Sensors 1 to 9
	Connector type: Seacon Min-K-10 - wired for 24/48VDC
	Built in CP interface
	Survey Sensor 10
	Connector type: Seacon Min-K-8 - wired for 115VAC.
Camera and Lights:	
Camera Interface	Up to 9 composite video camera inputs. Connector
	type: Seacon 5506-1508 or MinL-coax One camera
	interface is combined manipulator communication
	and camera connector. HD is optional. F/Z lines are
	bipolar/VISCA/IP
Pan/Tilt	Electrical
Light Interface	Capacity for ten dimmable lights, maximum load of
	30A. Each output secured by 6A breakers.
	Connector type: Seacon 5506-1503
	21
Performance:	
Bollard Pull FWD/AFT	900
Bollard Pull LATERAL	850
Bollard Pull Vertical UP	800
Bollard Pull Vertical DOWN	900
Speed FWD	> 1,7 m/s
Speed LATERAL	> 0,9 m/s
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