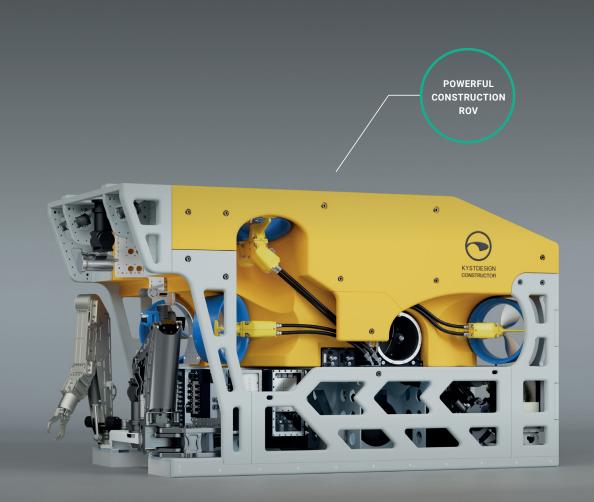
CONSTRUCTOR 3000.





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 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

General:	160 16 / 000 11
Power	160 Kw / 220 Hp
Depth rating ROV	3000 msw
Depth rating Buoyancy	3000 msw
Dimensions (L/W/H)	3220 / 1700 /1900 mm
Weight	~4600 kg
Payload	450 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.
Hadaaalla Oonaalla aad lakad	
Valve Pack No. 1	aces: 10 x Bi-directional Valves with proportional flow
valve r duk inu. I	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
valve Fack No. 2	control, each with max flow 10 l/min. Pressure on
Valve Pack No. 3	VP controlled by VP No.3.
Valve Pack No. 3	4 x Bi-directional Valves with proportional flow and
NA 16 11	pressure control, each with max flow 90 l/min.
Manifolds	Pressure and return manifolds mounted in front
	of the ROV.
	- 1 x Pilot operated high flow valve with max flow
	160 I/ min on AUX system
	- 1 x Pilot operated high flow valve with max flow
	250 I/ min on main system
Aux System Capacity	220 bar, 160 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	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.
Tool Interface	Max power consumption available is 20A @
Tool Interface	1
0 1	115VAC. Connector type: Seacon 5506-2008 Connector type: Seacon MinM-26#20, other on reques:
Gyro Interface	

Sensor Interface	12 connectors are prewired for user/survey equipment. In addition 11 extra connectors can be installed.
	Survey Sensors 1 to 8
	Connector type: Seacon Min-K-10 - wired for 24/48VDC.
	Built in CP interface
	Survey Sensor 9 to 12
	Connector type: Seacon Min-K-8 - wired for 115VAC.
	7,
Camera and Lights:	
Camera Interface	10 camera inputs.
	Connector type: Seacon 5506-1508 or MinL-coax.
	One camera interface is a combined manipulator
	communication and camera connector. HD is optional
Don/Tilt	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
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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