CONSTRUCTOR 3000 HF EDITION.

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 35 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

General:	160 1/11 / 220 1 12
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	400 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.
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Hydraulic Capacity and Interf Valve Pack No. 1	aces: 10 x Bi-directional Valves with proportional flow
valve Fack No. 1	control, each with max flow 10 l/min. Pressure on
Valve Pack No. 2	
	VP controlled by VP No.3.
	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
	(optional flow meter)
Manifolds	Pressure and return manifolds mounted in front
	of the ROV.
	- 1 x Pilot operated high flow valve with max flow
	300 I/ min on AUX system
	- 1 x Pilot operated high flow valve with max flow
	300 l/ min on main system
Aux System Capacity	260 bar, 300 l/min
Telemetry/Sensor Capacity a	nd Interference
	By default the control pod and telemetry system are
Telemetry Link	
	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:
	The state of the s
	115VAC, 24VDC, 48VDC, others on request
Tool Interface	115VAC, 24VDC, 48VDC, others on request. Max power consumption available is 20A @

O 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. 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 sipolar/VISCA/IP Electrical Capacity for ten dimmable lights, maximum load of 100A. Each output secured by 6A breakers.
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OA. Each output secured by 6A breakers.
Connector type: Seecon 5506 1509
Connector type: Seacon 5506-1503
000
350
300
000
1,7 m/s
0,9 m/s
all necessary controls for operating the ROV, TMS
mrests.
m, microphone and channel selectors integrated in
wo separate cabinets. One containing breakers,
contactors, overload relays and signal trans-
ormers. The other serving as a termination and
solation point for all high voltage connections.
s phase 400-420-440VAC, 60 Hz (690VAC optional)
ROV HPU 230 KVA, 4200-4350-4500VAC
ROV Instrument 10 KVA, 3000-3150-3300VAC
TMS HPU 23 KVA, 3000-3150-3300VAC
TMS Instrument 10 KVA, 3000-3150-3300VAC
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20° Container manufactured in accordance with
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