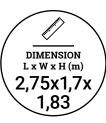
SUPPORTER 6000

Combines flexibility and capacities only matched by larger ROV's

















SUPPORTER 6000

The SUPPORTER 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 SUPPORTER can accommodate up to 25 hydraulic tooling functions, up to 20 survey sensors and 10 camera connectors. All 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.

OFFILED AT		
GENERAL		
Power	115 Kw / 150 Hp	
Depth rating ROV	6000 msw	
Dimensions (LxBxH)	2,75 m X 1,7 m X 1,83 m	
Weight	~4300 kg	
Payload	250 kg	
Through Frame Lift capacity	3000 kg	
Thrusters	7x SA300	
MECHANICAL (CAPACITY AND INTERFACES	
Free space inside ROV for utility equipment:	Open area of approx. 350 L through the entire ROV, 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	
HYDRAULIC CAPACITY AND INTERFACES		
Valve Pack No.1	10x 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	10x 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	4x Bi-directional Valves with proportional flow and pressure control, each with max flow 90 l/min.	
Manifolds	Pressure and return manifolds mounted in front of the ROV. 1x Pilot operated high flow valve with max flow 2001/min.	
Aux System Capacity	220 bar 120 liter per minute	
TELEMETRY/S	ENSOR CAPACITY AND 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). Ethernet, gigabit layer 1 (4 ports) with ethernet switch (4 ports) included. Optional 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 corresponding subsea connector is galvanic isolated. Total available power 30A @ 115VAC. Available supplies: 115VAC, 24VDC, 48VDC, others on request.	
Tool Interface	Max power consumption available is 20A @ 115VAC. Connector type: Seacon 5506-2008	
Sensor Interface	Connectors are prewired for user/survey equipment. • 2off Min-m-26 Gyro/Utility JB • 4off Min-k-8 115VAC • 12off Min-k-10 24VDC (48VDC) • 1off Spare SH20 • Built in CP interface	

CAMERA AND LIGHTS			
Camera Interface	2 HD video camera input 8 composite video camera inputs Connector type: Seacon 5506-1508 or MinL-coax. Camera interfaces 1 to 9 are prepared for use with focus & zoom cameras. Camera interface 10 is a combined manipulator communication and camera connector. IP video optional. F/Z lines are bipolar/serial.		
Pan/Tilt	Hydraulic and/or electrical		
Light Interface	Capacity for ten outputs, maximum total load of 2300W. Each output secured by 6A breakers, other breakers on request. Connector type: Seacon 5506-1503		
PERFORMANCE			
Bollard Pull FWD/AFT	780/770 kg		
Bollard Pull LATERAL	710 kg		
Bollard Pull Vertical UP	730 kg		
Bollard Pull Vertical DOWN	800 kg		
Speed FWD	> 1,6 m/s		
Speed LATERAL	> 0,8 m/s		
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PILOT INTERFACE

- Two identical pilot chairs, where all necessary controls for operating the ROV, TMS and PDU are integrated in the armrests.
- 1 off Multiview Controller
- 2 off 46" Video monitors
- 6 off 22" Monitors
- Clearcom communication system, microphone and channel selectors integrated in pilot chair.

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Description	Two separate cabinets. One containing breakers, contactors, overload relays and signal transformers. The other serving as a termination and isolation point for all high voltage connections.
Input	3 phase 400-420-440VAC, 60 Hz as standard. Other input voltage and frequency can be adapted for on request.
Output	ROV HPU 165 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
CONTAINERS (OPTION)	

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ROV Control Container	20' Container manufactured in accordance with DNV 2.7-1 Offshore Containers. Dimensions: 6058 x 2438 x 3000mm (LxWxH) Air conditioned	
ROV Workshop / PDU Container	20' Container manufactured in accordance with DNV 2.7-1 Offshore Containers. Dimensions: 6058 x 2438 x 3000mm (LxWxH) Air conditioned Contain workshop, PDU and transformers Optional 10' PDU container on request	

TMS (OPTION)

Various options available. Contact Kystdesign for further information.





