

# SUB-fighter 15k



- ROV designed for tough conditions
- Reliable and well proven design
- Quick and easy mobilization
- Very good stability
- Plenty of power
- Interface for standard tools
- Quality at an affordable price
- Require a minimum of maintenance



<b>Vehicle</b>	LWH 162 x 90 x 96 cm
<b>Frame</b>	Anodized aluminum
<b>Housings</b>	3 x 1 ata.
<b>Weight in air</b>	550 kg approx.
<b>Payload</b>	20 kg approx.
<b>Max depth</b>	700 m.
<b>Buoyancy</b>	Solid cell structure
<b>Power input, TBA</b>	230 / 400 / 440 / 690 VAC, 3 phase 15 kW
<b>Thrusters</b>	7 thrusters, Horizontal 5 x 2000W, Vertical 2 x 2000 W,
<b>Speed approx.</b>	Horizontal 3,5 knot, Vertical 1.9 knot Lateral 1,8 knot, Turn 60 deg/sec
<b>Pan /Tilt</b>	Pan 45 degrees, Tilt 90 degrees
<b>Camera interfaces</b>	4 off, 2-3 x simultaneous video channels
<b>Camera 1, standard</b>	Low light color camera, PAL 540 TV lines 0,05 lux
<b>Camera 2, option</b>	Low light black and white, PAL 570 TV lines 0,0001 lux.
<b>Camera 3, option</b>	Zoom camera, Colour CCD, HD block, PAL, 510 TV lines, 1,5 lux, 18 x optical 4 x digital zoom
<b>Light interfaces</b>	6 off, total 1500 W
<b>Lights, standard</b>	2 x ROS Q-LED III, 3500lux (500 W halogen equivalent)

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<b>Sensors</b>	300 bar depth sensor Fluxgate compass Moist sensors
<b>Auto functions</b>	Auto depth, Auto heading, Auto altitude (option)
<b>Multiplexer fiber, telemetry</b>	Focal 907 standard fiber optical multiplexer 3 x 8 bit or 2 x 10 bit video channels, 6 x RS 232/485 Optional: HD-video, Ethernet, USB link, others
<b>Survey channels and interfaces, TBA</b>	Sonar, 1 x RS 485, 24 VDC (standard) Transponder power 24 V DC (standard) Video, 4 off (standard) Lights, 6 off (standard) Actuator, 2 off (standard) Survey channels, 1 x RS 232, 1 X RS 485, 24 V (standard) Thruster or AC tool (option)


## OPTIONAL EQUIPMENT

<b>Manipulator</b>	Electric grabber and rope cutter
<b>HD camera</b>	Zoom camera, HD block, PAL, 1080 TV lines, 1,5 lux, 18 x optical 4 x digital zoom
<b>Cable cutter</b>	Cutter for 19 mm. steel rope, complete with HPU and valve pack
<b>Manipulator hydraulic 5 function</b>	EH 5 manipulator, valve pack, HPU, hoses and fittings, additional buoyancy, control box, valve control card
<b>Interface for Innovatum / TSS 440</b>	RS232 (220 VAC @ 2 A, 24 VDC @ 1 A)
<b>Survey channels</b>	2 x RS 232, 24 V 3 A (total)
<b>Survey channels</b>	2 x RS 485, 24 V 3 A (total)
<b>Ethernet interface</b>	1 x 1000 Mbit/s, add-on card for Mux 907 (907 GBE): data & power on connector (24 VDC @ 5 A) – MCBH12F
<b>Power Interface</b>	380V 50 Hz. Standard. Additional 440 and 690 V 50 Hz.
<b>Sonar</b>	Kongsberg Simrad MS 1000, 330 kHz, scanning sonar

**MOBILE ROV CONTROL SYSTEM**

<b>MOBILE ROV CONTROL SYSTEM</b>	
Space requirement, L x W x H	150 x 150 x 220 cm
Power input	2 kW, 230 VAC 50 Hz, other voltage options
Main units	Rack and monitors, pilot console, power control

<b>RACK</b>	
Aluminum splash proof cabinet 19', 12 U	
Video monitor	
Data monitor	
Key pad and roller ball in drawer	
PC with DVD and HDD video recorder	
Overlay and video software	
Software for MS 1000 sonar	
Fiber multiplexer	
Connections for fiber, data and video	
L x W x H, 60 x 54 x 64 cm	
Weight. 50 - 72 kg. depending on model	

<b>REMOTE PILOT CONTROL</b>	
Glass fiber cabinet	
Two XYZ joysticks for thruster control	
Switches and push buttons for all functions and equipment on ROV	
Prepared for control of extra equipment and tooling	
15 meter flexible rugged cable to rack	

## SUB-fighter 15k OFFSHORE

L x W x H, 43 x 21 x 20 (40) cm

Weight, 4 kg

### POWER CONTROL AND TRANSFORMER

STEEL CABINET for power control,  
Ref. No. 3

Power input standard, 230/380 VAC  
50 HZ. 3 phase.

Output line voltage from transformer,  
2500 VAC

Fuses and Megacon online ground  
fault system

Connections for umbilical, power in  
and rack

L x W x H, 60 x 30 x 80 cm

Weight 30 kg.

TRANSFORMER Ref. No. 6

Steel cabinet IP 23

L x W x H, 48 x 45 x 59 cm

Weight, approx 148 kg. 20 kVA.

