

# SUB-fighter 15k survey

- 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
- Made in Norway



## STANRRAD ROV SYSTEM

<b>Vehicle</b>	LWH 196 x 82 x 92 cm
<b>Frame</b>	Anodized aluminium
<b>Housings</b>	3 x 1 ata.
<b>Weight in air</b>	530 kg
<b>Payload</b>	20 kg approx.
<b>Max depth</b>	700 m. (3000 m)
<b>Buoyancy</b>	Solid cell structure
<b>Power input</b>	230 / 400 / 440 / 690 VAC, 3 phase 20 kW
<b>Thrusters</b>	Horizontal 4 x 2000W, Vertical 2 x 2000 W, Lateral 1 x 2000 W, Thrust 400 – 450 N Electronic resetable overcurrent protection
<b>Speed approx.</b>	Horizontal 3,5 knot, Vertical 1.9 knot Lateral 1,2 knot, Turn 60 deg/sec
<b>Viewing P/T</b>	Pan 0 – 90 degrees, Tilt 0 – 120 degrees
<b>Cameras</b>	5 x camera interfaces
<b>Camera 1</b>	Low light colour camera, PAL 520 TV lines 0,1 lux.
<b>Camera 2 (option)</b>	Zoom camera, Colour CCD, PAL, 580 TV lines, 1 Lux 18 x optical 4 x digital zoom
<b>Light</b>	4 x 250W halogen light, 3 channel light dimmer, HMI gas light 2 x 400W
<b>Sensors</b>	100 bar depth sensor, fluxgate compass, leakage detectors
<b>Other</b>	Auto depth, Auto heading, Auto traction (option) Digital control of thrusters and lights
<b>Telemetry</b>	Focal 907, Fibreoptic multiplexer 3 x 8bit video channels, 6 x RS 232/485 channels

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## Survey Channels on bulkhead

1 x RS 232, 24 V, 1 X RS 485, 24 V

## Manipulator skid

Skid with EH5 manipulator, HPU, 140 bar, Valve pack, 7 channel, Height 21 cm, Width 80 cm, Length 150 cm. Weight dry, 60 kg, Weight in water, 20 kg.

## SURFACE EQUIPMENT

Splash proof 19` rack Consisting of: PC, Power remote control, Video matrix 8 channel, Viga Option overlay system.

Data presentations of, depth, heading, date, time, twist counter, video grabber and screen writer. DVD and HDD video PC recorder Connections for umbilical, sonar, control console, RS 232 communication ports Digital instruments, Volts, Amps and HZ.

Height 45 cm., Width 54 cm.  
Length 60 cm, Weight 42 kg.

Video and data screens, 4 x 17" HD

Height 374/424 mm, Width 1670 mm,  
Length 170 mm, Weight 40 kg

### POWER CONTROL AND FUSE CABINET

Steel cabinet  
Power input 230V 50 HZ. 3 phase, 20kW.  
Transformer 230 V / 990 V AC.  
Fuses and ground fault system.  
Connections for umbilical.

Height 26 cm. Width 40 cm,  
Length 60 cm, Weight 19 kg.

### TRANSFORMER

Transformer in steel cabinet  
Height 55 cm, Width 40 cm,  
Length 45 cm, Weight 146 kg.

### CONTROL CONSOLE

Cabinet, glass fibre portable console.  
ROV pilot control console with two XY joysticks for thrusters control.  
Switches for camera, light, manipulator, remote functions on ROV, and other external functions.

Height 20 (40) cm, Width 21 cm,  
Length 43 cm, Weight 4 kg.

### WINCH

#### Winch 1, 1000 meter sinker cable

Height 105 cm, Width 82 cm,  
Length 105 cm, Weight 230 kg

#### Winch 2, 1000 meter tether cable

Height 105 cm, Width 82 cm  
Length 1700 cm, Weight 430 kg

### UMBILICAL 400M (SINKER)

Kevlar armoured cable.  
Length 400 meters.  
Weight in air 10 kg./100 m.  
Weight in seawater negative  
Outer diameter 7,6 mm.  
2 x single mode fibre  
Break strength 10kN

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### TETHER CABLE

Kevlar armoured cable.

Length 5000 meters.

Weight in air 260 kg/km.

Weight in seawater approx 0kg/km.

Outer diameter 18 mm.(approx.)

Break strength 12000 N

Foamed PE jacke

### ADDITIONAL EQUIPMENT

- Lights, halogene, LED, HMI gas light
- HD camera
- Black/White super low light
- Colour zoom camera
- Laser
- Sonar
- Navigation, HPR
- Video enhancer
- Survey channels, RS 232, RS 485
- Electric manipulator/ropecutter
- Hydraulic Manipulator
- Tether storage winch

Several other equipment available.