UHD WROV SYSTEM

Class III Remotely Operated Vehicle

Ultra heavy-duty work-class capabilities combine remote systems engine technology with up to 200 HP of hydraulic power.

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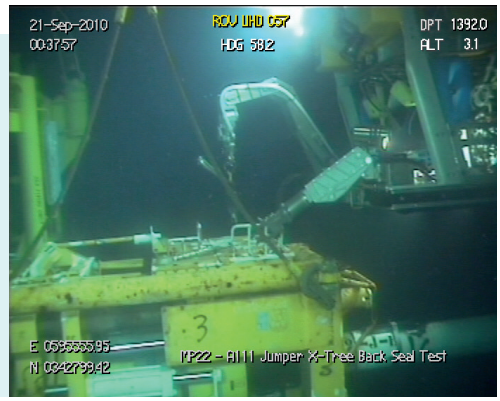
UHD WROV SYSTEM

200HP OF HYDRAULIC POWER

- Separate hydraulic circuits: main for propulsion and manipulators, auxiliary for tooling
- Automatic heading, depth, altitude, attitude, auto-tuning, and StationKeep
- AutoTrack utility to control vehicle through survey coordinates
- Digital Telemetry System: serial, video, Ethernet through Gigabit backbone
- Optional HDTV video capability



GENERAL SPECIFICATIONS

Depth rating (msw)*:	3300 or 4000
Dimensions (L x W x H - m):	3.0 x 1.9 x 2.0
Weight in air (Ton):	5.0
Through-frame lift (Ton):	3.5

*Actual depth rating may vary depending on ROV unit

PERFORMANCE

Power (hp):	200
Thrusters (horizontal / vertical):	4 x SA420 / 3x SA420
Forward, Aft bollard (Kgf):	1100
Lateral, vertical bollard (Kgf):	1000
Forward, aft speed (knots):	3.0
Lateral, vertical speed (knots):	2.0

AUTO FUNCTION CONTROL

Auto heading (deg):	± 2
Auto depth (cm):	± 15
Auto altitude (cm):	± 15
Station keep (m):	± 0.3
Displacement (m):	± 0.1

SENSORS

Fibre optic gyro heading sensor:	Crossbow VG700+ 0.75 deg accuracy 2.0 deg RMS pitch / roll
Depth Sensor:	Digiquartz 8000 1 x 10-8 resolution
DVL:	1200KHz Workhorse ±0.2% bottom velocity
Sonar:	Tritech Super Seaking

CAMERAS AND LIGHTS

First Pan & Tilt unit:	1 x electric FMC Schilling
Second Pan & Tilt unit:	Optional
Low light B/W:	1
Color CCD zoom camera:	1
Color CCD fixed focus camera:	1
Monochrome fixed focus camera:	1
Titan 4 wrist camera:	Optional
Incandescent lights:	8
HID lights:	2

TELEMETRY SYSTEM

Standard channel types*:	10 / 100 Ethernet, RS232, PAL video,
Subsea power outputs:	110VAC, 48VDC, 24VDC
1080p HD-video:	Optional
Gigabit multiplexer:	Optional

*Setup and quantity may be reconfigured

MANIPULATORS

7 functions:	FMC Schilling Titan 4
5 functions grabber:	FMC Schilling Rig-Master

HYDRAULIC SPECIFICATIONS

Maximum main / aux pressure (bar):	275 / 207
Maximum main / aux flow (lpm):	238 / 125
8-F valve packs*** :	2x Sub-Atlantic GFV*
8-F valve packs maximum flow (lpm) ***:	12
8-F valve packs max pressure (bar)***:	207
3-F manifold:	1 x FMC Schilling
3-F manifold max flow (bar):	160**
3-F manifold max pressure (bar):	207

*Functions are shared with Rig-Master **Limited by aux circuit flow
***Actual number of functions and valve-pack models may vary depending on ROV unit

TOP HAT TETHER MANAGEMENT SYSTEM

Dimensions (Ø x H - m):	2.4 x 2.2
Weight in air (Ton):	4.6
Tether length maximum capacity (m):	425
Pan & Tilt:	1 x electric Schilling
Depth Sensor:	Digiquartz 8000
Color CCD Zoom Camera:	2
HID lights:	2

CONTROL VAN, WORKSHOP AND STORAGE

2 x ISO 20' containers + 1 x 10' container

TELESCOPIC LAUNCH & RECOVERY SYSTEM

A-Frame (L x W x H - m):	7.5 x 3.7 x 3.2
A-frame maximum height (m):	10.0
A-Frame weight (Ton):	20
Winch (L x W x H - m):	4.0 x 4.0 x 3.4
Winch weight (Ton):	46
Winch maximum umbilical capacity (m)*:	3300 or 4400
HPU (L x W x H - m):	1.9 x 3.0 x 2.9
HPU weight (Ton):	6.7

*Actual maximum main lift umbilical length may vary depending on ROV unit

STANDARD OPERATIONAL LIMITS

Beaufort:	6

ELECTRICAL REQUIREMENTS

ROV, control van:	380 / 480 VAC, 50 / 60Hz, 3PH, 630A
LARS:	440 VAC ±10%, 60Hz, 3PH, 400A

ROAD TRANSPORTATION

Number of trucks:	5 (approximately)*

*Oversize transport rules may apply

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All particulars believed to be correct but not guaranteed. All equipment stated in the brochure might be replaced with better or equivalent parts.

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