

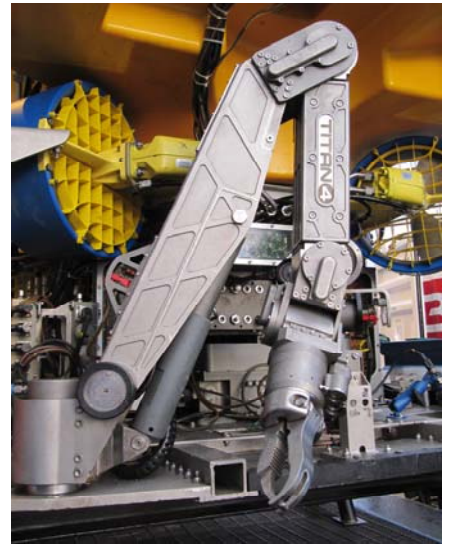


HD WROV SYSTEM

Class III Remotely Operated Vehicle

Innovative features in the frame design and modular subsystems produce a high performance vehicle suitable for IMR, drill support, and construction operations, while maintaining a compact system footprint.

HD WROV SYSTEM



150HP 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 1080i FULL-HD video capability

GENERAL SPECIFICATIONS

Depth rating:	3000 msw
Dimensions (L x W x H) m:	2.5 x 1.7 x 1.9
Weight in air:	3.4 Ton
Through-frame lift:	3.0 Ton
Payload:	250 kg / 350 kg (option)

PERFORMANCE

Power:	150hp
Thrusters (horizontal):	4 x SA380
Thrusters (vertical):	3 x SA380
Forward, Aft, Lateral bollard:	750 kgf
Vertical Down bollard	750 kgf
Vertical up bollard:	720 kgf
Forward, Aft speed:	3.0 knots
Lateral, Vertical speed:	2.2 knots

AUTO FUNCTION CONTROL

Auto Heading:	± 2°
Auto Depth:	± 15 cm
Auto Altitude:	± 15 cm
Station Keep:	± 0.3 m
Displacement:	± 0.15 m

SENSORS

Gyro (MRU):	Crossbow
Precision nav compass:	TCM2-50
Depth Sensor:	Digiquartz
DVL:	1200KHz Workhorse
Altimeter:	Kongsberg MS 1007
Sonar:	Super Seaking

CAMERAS AND LIGHTS

First Pan & Tilt unit:	1 x electric Schilling
Second Pan & Tilt unit:	Optional
Low light B/W:	1
Color CCD Zoom:	1
Color CCD Fixed Focus:	1
Titan 4 Wrist Camera:	Optional
Incandescent lights:	6

MANIPULATORS

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

TOP HAT TETHER MANAGEMENT SYSTEM

Dimensions (Ø x H) m:	1.9 x 2.2
Weight in air:	3.0 Ton
Tether length max capacity:	425 m
Pan & Tilt:	1 x electric Schilling
Depth Sensor:	Digiquartz
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

Telescoping A-Frame	
(L x W x H) m:	8.3 x 2.5 x 3.1
Maximum Height m:	9.6
A-Frame weight:	22 Ton
Winch (L x W x H) m:	3.8 x 2.2 x 3.0
Winch weight:	22 Ton
Winch max umbilical capacity:	3300 m
HPU (L x W x H) m:	1.4 x 2.4 x 2.4
HPU weight:	4.2 Ton

STANDARD OPERATIONAL LIMITS

Beaufort:	6
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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)
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