

NEXXUS

Increased ROV and BOP intervention capabilities



The NEXXUS ROV raises the bar and exceeds API S53 specifications to solve demanding tooling intervention requirements.

FEATURES

Integrated API S53 compliant system

Full power available for ROV tooling

Unmatched high pressure / high flow tool control

Vehicle Specifications

Weight in air	10,500 lb / 4,750 kg
Dimensions (LxWxH)	10.9 x 5.6 x 6.3 ft / 3.2 x 1.7 x 1.9 m
Depth rating	10,000 ft / 3,000 m (standard) 13,000 ft / 4,000 m (optional)
Payload	1,000 lb / 455 kg

Vehicle Power and Performance

Hydraulic power units	2 x 125 hp
Propulsion	4 x 380 mm vector horizontal 4 x 380 mm vertical
Thrust	
Forward/reverse:	2,300 lb / 1,050 kg
Lateral:	2,300 lb / 1,050 kg
Vertical:	3,100 lb / 1,400 kg

Vehicle Manipulators and Tooling

Manipulators (2)	7 function proportional control: SC or hybrid
Wrist camera assembly	Laser, light, and camera

Hydraulic Tool Control

HP supply	0-10 gal/min @ up to 15,000 psi
MP supply	60+ gal/min @ 5,000 psi (API S53 compliant)
LP supply	0-90 gal/min @ 3,000 psi
Reservoir capacity	200+ gal
Tooling space	40 ft ³ / 1.1 m ³
Proportional tooling valves (11)	(8) 35 gal/min (2) 2 gal/min (1) max flow

Vehicle Cameras and Lighting

Cameras	Standard definition (SD) High definition (HD) 3D HD (optional) 4K UHD (optional)
Lighting	Up to 8 x 250 W (high-intensity LED)

Vehicle Control and Navigation

Automatic control	Autonomous control of the ROV Hands-free piloting Fly-by-wire station keeping system Auto heading/depth/altitude/pitch Cruise control
Heading and altitude sensors	Survey-grade gyro Backup flux gate compass
Depth sensor	High-resolution digiquartz Backup analog depth sensor
Navigation Sensor	Doppler velocity log
Obstacle Avoidance Sonar	Kongsberg 1071 or 1171 Tritech SeaKing

Vehicle Optional Power/Data Interfaces

Data links	Multiple RS232 and RS485 Ethernet Optical Fiber
Power	24 V DC and 110 V AC

Tether Management System (TMS)

Type	Side entry cage or top-hat
Propulsion	2 x horizontal (cage only)
Hydraulic power unit	1 x 125 hp
Electro-optical tether	2,000 ft / 600 m (cage) 4,000 ft / 1,200 m (cage) optional 1,300 ft / 400 m (top-hat)
Cameras	2 x charge-coupled device (CCD)
Lighting	2 x 250 W (high-intensity LED)
Options	4 thruster config on cage for DP Multibeam sonar as an option

Launch and Recovery Systems (LARS) (choice of)

Overboarding	
A-frame w/ or w/o docking head	
Heavy-weather overboarding system	
Cursor	
Winch	
Heavy lift winch with conventional or OHRA level wind	