

COMANCHE

LIGHT WORKCLASS ROV



OVERVIEW

- 2000m depth rating
- Garage type TMS with 500m tether
- 285kg payload with diverse skid options
- 225kgf thrust forward and vertically
- Fibre optic mux offering multiple data options for survey equipment
- Integrated LARS skid with reduced deck footprint
- SubCAN control system with advanced dia

REVER HEAVY DUTY WORK CLASS ROV

Comanche is the ultimate 'all round' electric ROV, offering a generous auxiliary hydraulic package for work class manipulation and tooling, combined with an advanced and powerful control and diagnostics package for survey and other data collection missions. Comanche delivers high performance, high reliability and high adaptability combined with reduced deck space.

Comanche has been developed for the following sectors and tasks:

- Construction support including pipelay support and TDM
- IRM, pipeline and platform inspections including CP & FMD
- Drill support, completion & well intervention including BOP shut down, fluid injection, hot stabbing, drilling and tapping, and gasket change out
- Survey including multibeam and OSS
- Dive support

ROV SPECIFICATION

Operational design parameters	Up to and including Sea State 6
Power	35kW
Hydraulic power (for tooling)	15kW
Depth rating	2000m
Dimensions (l x w x h)	2100 x 1300 x 1250mm
Weight in air	1130kg
Bollard pull	225kgf forward/lateral thrust 225kgf vertical thrust
Max speed	3.0kn
Payload	215kg standard, 285kg optional
Propulsion	4 x 250 mm Ø horizontal thrusters 3 x 250 mm Ø vertical thrusters
Manipulators	1 x 7 function manipulator (Schilling Orion) 1 X 4 function grabber (Schilling Rigmaster)
Auto functions	Heading & depth
Cameras	Bowtech Explorer low light monochrome camera Bowtech surveyor colour zoom camera Rear facing camera Pan and tilt unit Tilt unit
Lighting	6 x dimmable 2400 lumens LED lights
Sensors & Tooling	Survey electronics pod with RS232, RS485 and Ethernet options Dual 907+ fibre optic multiplexer system Tritech Super Seaking Obstacle Avoidance sonar Heading and Depth sensors 20hp HPU with valve chest for tooling functions 38mm wire rope cutter Subsea angle grinder Jetting pump Dredge pump

TETHER MANAGEMENT SYSTEM (TMS)

Operational design	Up to and including Sea State 6 parameters
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Dimensions (l x w x h)	2850 x 1780 x 2555mm Extended Height 3035mm
Weight in Air	2950kg (inc. ROV and tether) 1100kg (exc. ROV and tether)
Line pull	100 kg
Tether	500m of 21mm diameter

LAUNCH AND RECOVERY SYSTEM (LARS)

Operational design	Up to and including Sea State 6 parameters
Type	Hydraulically powered fully integrated LARS with telescopic and snubber rotator
A-Frame functions	
Dimensions (l x w x h)	5500 x 2890 x 3200mm
Weight	22000kg
SWL	5.5T
Umbilical	2200m of 21mm diameter umbilical
Winch line speed	38m/min
LARS HPU electric motor	55kW
Power requirements	75A @ 440V 60 Hz

TOPSIDE CONTROL EQUIPMENT

- Bespoke ergonomic control console
- SCU (surface control unit) in a rack mount configuration
- Inverter/Transformer PDU integrated into floor mounted cabinet
- Pilot console incorporating ROV control unit, bear claw for grabber control, and touch screen monitor
- 6 x 19" flat screen monitors installed on wall mounted display shaped for optimum viewing
- ROV computers
- Graphic user interface
- Sonar computer
- Digital Edge digital video recorder
- Clearcom system
- Power management and protection
- Condition monitoring and diagnostics
- Optional A60 Zone 2 control Container

OPTIONAL EQUIPMENT

Example optional equipment as follows:

- Survey Gyro (IXSEA Octans or similar)
- Geophysical & Bathymetric Survey Sensors
- Dual Head Multibeam System (Reson 7125 or similar)
- High resolution sonar system
- CP System
- Pipetracker and cable tracker (TSS440 and TSS350)
- Dredge System
- HP Jetting system
- Torque tool c/w control system
- AX / VX ring gasket tool

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