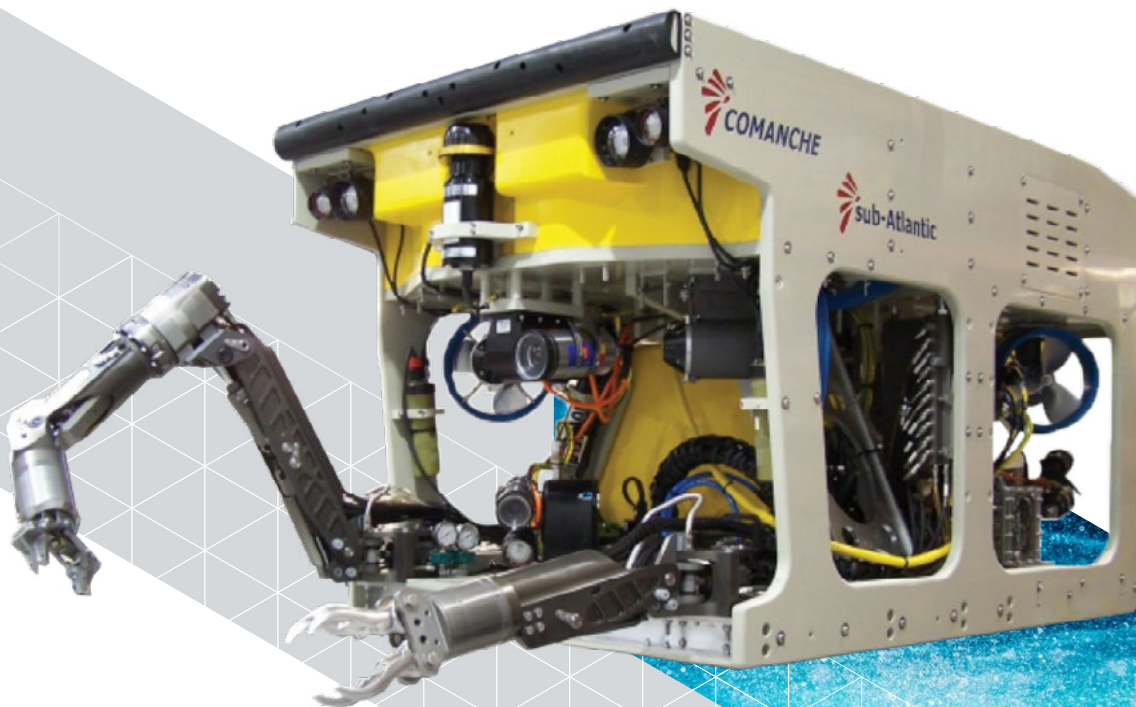


TECHNICAL SPECIFICATION

# COMANCHE LIGHT WORK CLASS ROV SYSTEM 05



# ROVOP

KNOWLEDGE IN DEPTH

# COMANCHE LIGHT WORK CLASS ROV SYSTEM 05

The Comanche offers high performance, high reliability and high adaptability combined with low capital and operational expenditure and reduced deck space.

The Comanche is an all-round electric ROV offering a generous auxiliary package for work class manipulation and tooling combined with an advanced and powerful control and diagnostics package for survey and other collection missions.

Operating Conditions	Up to and including Sea State 6 (3g)
Depth Rating	Up to 2,000m sea water
Hyd. Power Equivalent	75 HP
Aux Hydraulic Power	15kW 20hp
Length	2,100mm
Width	1,300mm
Height	1,250mm
In Air Weight	1,130kg
Fwd/Aft Bollard Pull	225 kgf
Lateral Bollard Pull	225 kgf
Vertical Bollard Pull	225 kgf
Fwd/Aft Surface Speed	3+ knots
Lateral Surface Speed	2.5 knots
Vertical Speed	1.5 knots
Payload	250kg
Aux Pump	220bar @30 lpm
Propulsion	4 x SPE-250 electric horizontal thrusters, 3 x SPE-250 vertical thrusters
Manifold	16 NG3 station manifold: 4 used, 12 spare
Auto Functions	Heading, Depth, Altitude, Pitch and Roll
Heading Control	TCM2.6 magnetic fluxgate
Depth Control	Depth sensor
Altitude Control	Tritech altimeter
Video	Real-time video channels (4)
Telemetry	1 x RS 232 & 1 x RS485
Lighting	4 x LED lamps
Survey Pod	Real-time video channels (4) 1 x RS 232 & 1 x RS485/RS232 4 x LED lamps Ethernet available

## VEHICLE EQUIPMENT : fit as standard

Manipulator	1 x Schilling 7 function Orion Manipulator
Grabber	1 x Schilling 4 function Orion Manipulator
Camera Pan and Tilt	1 x sub Atlantic pan and tilt
Camera Tilt	1 x sub Atlantic tilt
Colour Cameras	2 x colour zoom cameras 1 x colour camera
Low Light Camera	1 x camera
Sonar	1 x Tritech super seaking DFS

## TETHER MANAGEMENT SYSTEM (TMS)

Operating Conditions	Up to and including Sea State 6 (3g)
Depth Rating	2000m sea water
Tether Capacity	250m of 30mm or 600m of 21mm
Power	SPE-250 electric motor
Length	2,848mm
Width	1,777mm
Height	2,555mm to 3,035mm
Air Weight	1,450kg
In Seawater	1,100kg
Lighting	2 x LED lamps
Video	1 x colour camera

## CONTROL CONTAINER & EQUIPMENT

Control Container	Zone 2 Atex approved
Length	6058mm
Width	2438mm
Height	2743mm
Weight	12,000kg
Air conditioning	1x 7.5KW
Incoming Supplies	1 x 440Vac, 60Hz, 3 Phase, 63A

## A FRAME ASSEMBLY & WINCH

LARS	Zone 2 Atex approved
Type	Hydraulically powered 'A' frame c/w integral umbilical sheave
Safe Working Load	5,500kg
Design Factor	3g
Umbilical Storage Capacity	2,080m of 25.5mm diameter umbilical
Line Speed	30m per-minute mid layer
Braking	Independent emergency braking system
Control	Local control station
Deployed Reach	2,000mm
Incoming Supplies	1 x 440Vac, 60Hz, 3 Phase, 100A (55kW)