

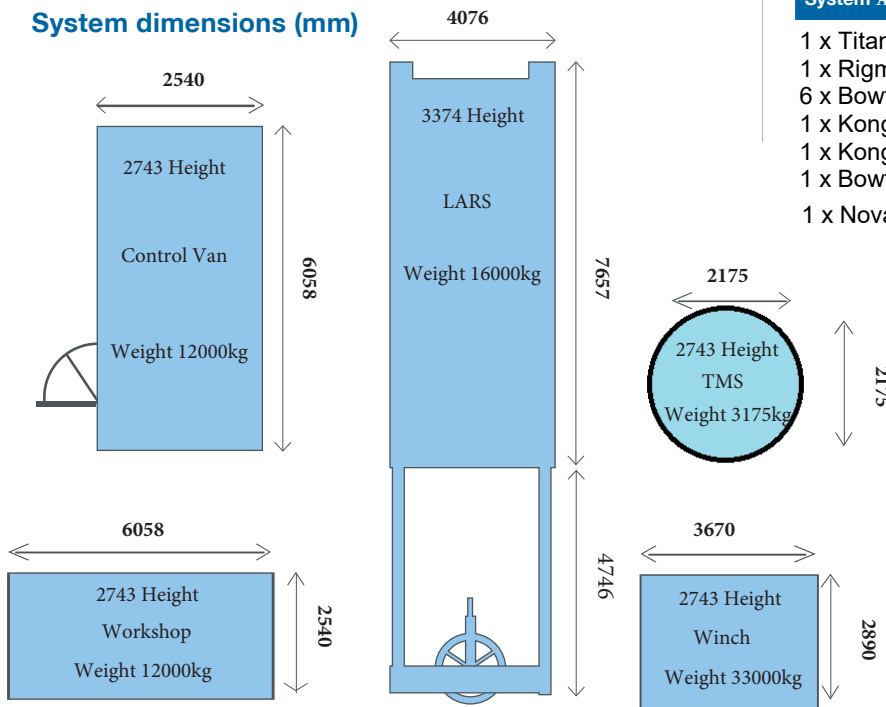


The Comanche is the logical choice when seeking the ultimate workclass electric ROV.

Offering a generous auxiliary hydraulic package for work class manipulation and tooling combined with advanced autopilot control and diagnostics package for survey and other data collection missions the Comanche offers high performance, high reliability and high adaptability combined with low capital operational expenditure and reduced deck space especially when compared to the alternatives.

The Comanche is currently at work globally in the oil and gas Renewable Energy Civil Engineering Military Scientific Research and Treasure Hunting sectors. The system is supplied with Tether Management System.

System dimensions (mm)



Technical specifications

Depth rating	3000 msw
Length	3000 mm
Height	1700 mm
Width	1700 mm
Launch weight	3500 kg
Forward speed	3.2 knots
Thrust forward	800 kgf
Thrust lateral	800kgf
Thrust vertical	500 kgf
Payload	2000 kg

System power requirements

Input Supply	3-phase 380-480 VAC -(120A)
Hydraulic power	150hp Curvetech power pack

System Accessories fitted

- 1 x Titan 4 (7 Function manipulator)
 - 1 x Rigmaster (5 Function grabber)
 - 6 x Bowtech LED lamps
 - 1 x Kongsberg P&T
 - 1 x Kongsberg Tilt
 - 1 x Bowtech Surveyor
 - 1 x Novatech Strobe
- Working limits**
- Sea state: 7
 - Wind speed : 28 knots
 - Wave height: 2.8 m
 - Current: 3.2 knots



LAUNCH AND RECOVERY SYSTEM (LARS)

Type	SMD Hydraulically powered 'A-frame with umbilical sheave, damped snubber and rotating frame.
Classification	Safe Area
Certification/standard	Designed in accordance with Lloyds Lifting Appliances in a Marine Environment
Dimensions (l x w x h)	12483 x 4076 x 8895 mm (operational) 7657 x 4076 x 3374 mm (transport)
Outboard Reach	4746mm
Weight	16000kg
SWL	10725kg
Design factor	3g

WORKSHOP

Type	20ft A0 ISO Container
Classification	Safe Area
Dimensions (l x w x h)	6058 x 2540 x 2743mm
Electrical supply	240 VAC Input single phase supplied from Control Cabin 50m power cable

CONTROL VAN

Type	20ft ISO Container (air conditioned)
Classification	3000msw
Dimensions (l x w x h)	6058 x 2540 x 2743mm
Weight (approx.)	12000 Kg Gross
Transformer	3 Phase transformer (ROV HPU)
Operational Console	DVECS2 ergonomic control system c/w Pilot Control Desk Co-Pilot Control Desk Touch screen control monitors for menu navigation and ROV auxiliary
Monitors	Eight, 19" TFT Flat Panel monitors in "video wall" arrangement (4 x video - two c/w quad screen splitters, 4 x control/diagnostics)
Power Distribution Unit	Self contained 150hp PDU
Rack Mounted	Oceantools 2 channel Video Overlay
Equipment	Kramer Video Matrix Switcher 16x16 Two Quad Splitters Two Edge DVR Recorders (SD Version) Blue View Sonar System Canford Communication system
Sensors	One Tritech SeaKing DST Sonar (RS232 interface) One CDL 3000m TOGS/NAV Gyro with RDI DVL, Mini IPS, Pitch & Roll One Novatech ST400A Xenon Flasher

TETHER MANAGEMENT SYSTEM (TMS)

Class/Type	SMD Extended Tophat Tether Management System (TMS)
Dimensions (d x h)	2175 x 2475mm
Weight in air	3175kg (inc 500m of 27mm tether)
Weight in seawater	2050kg (inc 500m of 27mm tether)
Line speed/pull	0 – 60m/min proportional @ >300kgf
Lighting	Two Bowtech LED-U-4200AC LED Lamps
Cameras	Two Bowtech LLC 600 Mono
Depth sensor	Digiquartz Depth Sensor
Tether	500m of 27mm diameter Nexan WT1-1 Work Class Tether

UMBILICAL WINCH

Type	Hydraulically driven ROV lift winch
Classification	Safe Area
Certification/standard	Designed in accordance with Lloyds Lifting Appliances in a Marine Environment
Dimensions (l x w x h)	3670 x 2890 x 3160 mm (includes fleeting)
Weight	33000kg (inc. umbilical)
Winch pull	12000kg (top wrap)
Line speed	50m/minutes max
Umbilical	3300m of 41.2mm diameter, double steel armoured (Nexans RS686)
HPU	Twin 75kW

