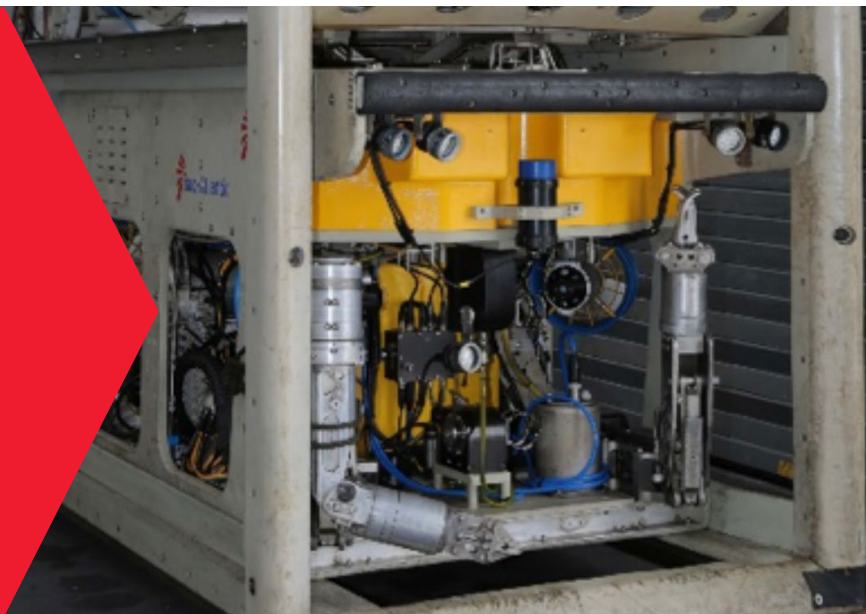


## About

Film-Ocean is an independent subsea contractor providing ROV inspection and intervention services. We specialise in providing innovative, cost effective subsea solutions to the global oil and gas industry and have an extensive track record in performing subsea integrity inspections on floating and fixed structures from the asset or support vessel with a fleet of high specification ROV's.

# Light Electric Work Class Comanche ROV System



## Product Overview

The 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. The Comanche delivers high performance, high reliability and high adaptability combined with reduced deck space.

The 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, gasket change out
- Survey including multibeam and OSS
- Dive support

# Comanche ROV Specification

**Power:** 35KW

**Vehicle Dimensions:** Length x Width x Height: 2.1m x 1.3m x 1.25m

**Weight:** 1130 Kg

## SYSTEM SPECIFICATION

- 1 x 7 Function Proportional Work Class Manipulator
- 1 x 4 Function Proportional Work Class Manipulator
- Comprehensive Work Class Tooling Options
- High Powered Dredging, Jetting, Pumping and Cutting Capability
- 4 x Horizontal and 3 x Vertical 225lbf Thrusters For Tilt Controlled Lift Capability
- Up To 285 Kg Payload and Diverse Skid Options
- Garage TMS (Long Excursion)
- 3000m Depth Rated Version
- SubCAN control giving advanced diagnostics and set-up options on the fly
- Dual Port Gigabyte Ethernet, CWDM, HD Solutions
- Full Survey / Mapping/Metrology Suite Options
- Full Dynamic Positioning/Inertial Navigation Capabilities
- Reduced Deck Footprint/Air Transportable Options
- Length 2100 mm
- Width 1300 mm
- Height 1250 mm
- Standard ROV Depth Rating 3000 m
- Weight In Air 1130 Kg
- Standard Payload 215 Kg
- Optional Payload 285 Kg
- Power 35 kw
- Forward Thrust 240 Kgf
- Lateral Thrust 240 Kgf
- Vertical Thrust 225 Kgf
- Optimum Speed 3.0 Kts
- Optimum Speed 1.5 m/s

## STANDARD SYSTEM EQUIPMENT

- Electronics Pod c/w SubCAN Control, Protection & Diagnostic
- System & 907 Plus Multiplexer & Single Mode Telemetry
- Low Mass 35kw / 3000V / 400Hz Transformer
- Capacitor, HV Fuse & Thruster Power Box
- Pan & Tilt Unit
- High Torque Tilt Unit
- 2000m Rated 215 Kg Payload Buoyancy
- Plentiful space for mounting user equipment
- Aluminium frame supporting internal & external user equipment & live boat launch & recovery

## OPERATIONAL EQUIPMENT

- 2000m rated 285Kgs Payload Buoyancy
- Survey Expansion Electronics Pod

## CONTROL SYSTEM AND FEATURES

- Auto Heading / Depth / Altitude
- Hands Free Navigation & Station Keeping
- Hand Control Unit & Graphical User Interface
- Power Management & Protection
- System Condition Monitoring & Diagnostics

## TELEMETRY

- Single Mode Fibre Integration of All Standard and Optional Data
- 4 x Video Channels, 2 x RS 485 Channels, 4 x RS 232 Channels (1 dedicated to SubCAN)

# Comanche ROV Specification

## LAUNCH AND RECOVERY SYSTEM (LARS)

- Operational in up to and including Sea State 6
- 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 16640kg
- SWL 5.5T
- Umbilical 2200m of 21mm diameter
- Winch line speed 38m / min
- LARS HPU electric motor 55kW
- Power 75A @ 440V 60 Hz

## TETHER MANAGEMENT SYSTEM (TMS)

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

