

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.

Heavy Duty Work Class Quantum ROV System



Product Overview

Quantum is the largest size vehicle in Q-series work class ROV range. Utilising the latest multi-platform Curvetech™ components, the vehicle offers class-leading in current performance, tooling and instrument space and access for maintenance. Designed to cope with power intensive deepwater tasks, the Quantum is the ultimate subsea construction and survey tool.

The Quantum has the following features:

- SMD's most powerful ROV
- Large payload and through frame lift to meet your heavy duty tooling needs
- Configurable for survey and heavy construction tasks
- The ultimate ROV for the most demanding of missions

Quantum ROV Specification

Power: 250HP

Vehicle Dimensions: Length x Width x Height: 3.6m x 2.0m x 2.0m

Weight: 5000kg

GENERAL

- Length 3680mm
- Width 2000mm
- Height 2000mm
- Depth Rating 3000msw
- Weight In Air (base system) 5000kg
- Payload (base system) 400kg
- Through Frame Lift 4000kg

PERFORMANCE

Bollard Pull:

- Forward/Aft 1100kgf
- Vertical/Up 900kgf

Surface Performance:

- Forward 3.5kn
- Lateral 2.8kn
- Vertical 2.2kn

INSTRUMENTS/TOOLING

- Manipulator 1x7F pos feedback T4
- Grabber 1x5F rate, heavy duty
- Lighting 2xHID + 12 x halogen or LED
- ***Hydraulic channels***
- Standard 12ch iHCU (15LPM), 4ch (high flow)
- Torque tool controller, 2ch iHCU (95LPM), 12ch iHCU (15LPM)
- 200cc Aux pump. Up to 330LPM
- API53 Compliant

Video capability

- Standard 6 x channels composite
- Optional 2 x composite + 2 x HDTV channels

Gyro

- Standard Gyro Compass
- Optional NS FOG

Survey

- Gigabit ethernet and high definition video as standard

ROV CONTROL CABIN

- 20ft, A60 ISO Zone II
- BSEN12079 Standard
- Power 380V-480Vac or 690Vac
- Weight 11500kg
- SMD DVECSII ROV control hardware
- Twin pilot consoles
- Multi screen 4K video wall
- Lifting Equipment one, set of slings c/w shackles DNV 2.7-1 (with carbon steel ferrules)

Dimensions

- Length 6045mm
- Width 2438mm
- Height 2688mm

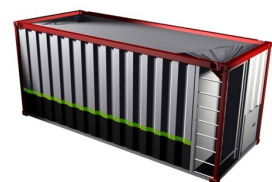


WORKSHOP CABIN

- 20ft, ISO Zone II Container
- BSEN12079 Standard
- Weight 10000kg
- Lifting Equipment one, set of slings c/w shackles DNV 2.7-1 (with carbon steel ferrules)
- Split clean/dirty areas inc. work bench
- Hoist included at dirty end

Dimensions

- Length 6058mm
- Width 2438mm
- Height 2590mm



Quantum ROV Specification

12Te TELESCOPIC 'A' FRAME

- CEEEx II 3G E Ex IIB T3 Tamb -10 to +45°C (Zone II)
- Hydraulically powered extendable A-frame with umbilical sheave, damped snubber and rotating frame
- Safe Working Load 12000kg
- Design Factor 3g
- Weight 23500kg
- Operating Temperature -10°C to +45°C
- Max Deployed Reach $\geq 5400\text{mm}$ from main pivot
- Max Inboard Reach - To storage position
- Telescopic Extension 2200mm
- Minimum Distance Between Legs $\geq 2900\text{mm}$

Operational Dimensions

- Length 7000mm
- Width 4100mm (Excluding deck mounts)
- Height 10890mm

Transport Dimensions

- Length 7980mm
- Width 4240mm
- Height 3430mm

EXTENDED TOPHAT TMS

- SMD eXTENDED Tophat Tether Management System (TMS)
- Diameter $\leq 2175\text{mm}$
- Height $\leq 2475\text{mm}$
- Weight in Air $\leq 2450\text{kg}$ (excluding tether)
- Weight in Seawater $\leq 1800\text{kg}$
- Depth Rating 4000msw
- Main Lift Termination Capacity 12000kg at Sea State 6
- Operating Temperature -10°C to +45°C
- Frame Load Certification Toplift point, frame and latch tested to three times maximum weight
- Tether Capacity 1000m of 27mm diameter tether
- Line Speed 0 - 60m/min (proportional control)
- Line Pull $>300\text{kgf}$

12Te UMBILICAL WINCH

- CEEEx II 3G E Ex IIB T3 Tamb -10 to +45°C (Zone II)
- Hydraulically Driven ROV Lift Winch
- Winch Pull 12000kg (top wrap)
- Design Factor 3g
- Transverse fleeting
- Weight 30500kg (including 3300m main lift)
- Operating Temperature -10°C to +45°C
- Storage capacity Up to 3500m 35mm umbilical, Lebus shells included
- Drive/Brake Hagglunds 35L direct drive Viking motor. Integral band brake.
- Line Speed Average 60m/min (with 150kW HPU).
- Controls Control from deck-mounted control stand and remotely from control cabin (only pay-out and pick-up available from cabin)

Dimensions

- Length 3700mm (Excluding deck stools)
- Width 3000mm
- Height 3360mm (Includes fleeting)

