

About

Film-Ocean is a 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.

Work Class Schilling HD ROV System



Product Overview

The HD system is designed for performance, reliability, and maintainability. Innovative features in the frame design and modular subsystems combine to produce a high-performance vehicle suitable for IMR, drill support, and heavy-duty construction operations. The compact system footprint is ideal for rapid transportation and mobilisation.

Key performance figures include Station Keep Dynamic positioning capability as standard, tightly integrated with accurate power management and thruster feedback. The integrated modular design philosophy enables rapid maintenance in the field, with change out of key modules of the HPU and power supplies possible in under one hour.

Schilling HD ROV Specification

Power: 300KVA 3 Phase 440V / 60Hz

Vehicle Dimensions: Length x Width x Height: 3.0m x 1.5m x 1.8m

Weight: 3000kg

GENERAL

- Length 3000mm
- Width 1500mm
- Height 1800mm
- Depth Rating 4000msw
- Weight In Air (base system) 3500kg
- Payload (base system) 250kg
- Through Frame Lift 3000kg
- Vertical Dynamic Amplification Factor (DAF) 3.0
- Horizontal Dynamic Amplification Factor (DAF) 1.0
- TMS Tether Length 850m

PERFORMANCE

Peak Thrust:

- Forward/Aft/Lateral 900kgf
- Vertical/Up/Down 850kgf

HYDRAULICS - AUXILIARY CIRCUIT

- Auxiliary Pump Rexroth A10VSO, 45cc
- Nominal Operating Pressure 207Bar, 3000psi
- Maximum Operating Pressure 275Bar, 4000psi
- Maximum Flow at 3000psi 72LPM, 19 US GPM
- Spare Functions 11

PROPULSION

- HPU 150shp, 112kW
- Main Pump Eaton, 135cc
- Nominal Operating Pressure 207Bar, 3000psi
- Maximum Operating Pressure 275Bar, 4000psi
- Thrusters Sub Atlantic SA380-40x7
- System Flow at 3000psi 216LPM, 57GPM

EQUIPMENT FITTED

- Manipulators Schilling T4 7F and Rigmaster 5F
 - Low Light Camera
 - Colour Zoom Camera
 - Docking Camera
 - Depth Sensor - IPS
 - Heading and Dynamic Motion Sensor - CDL TOGS
- NAV
- Doppler RDI - Workhorse Navigator 1200kHz
 - Strobe Novatech, ST400 AR
 - Sonar Tritech, DST
 - Lights x 8 ROS, MVLED 26VDC
 - Pan and Tilt x 2 Schilling, Electric Programmable
 - Valve Pack x 2 Sub Atlantic, 8 Function
 - Hi Flow Valve Pack x 1 Schilling, 3 Function

ROV CONTROL CABIN

- 20ft, A60 ISO
- Power 380V-480Vac or 690Vac
- Dual touch screens
- TFT video wall

Dimensions/Weight

- Length 6100mm
- Width 2450mm
- Height 2450mm
- Weight 10000kg

ROV WORKSHOP CABIN

- Generous workshop cabin for maintenance and storage

Dimensions/Weight

- Length 6100mm
- Width 2450mm
- Height 2450mm
- Weight 10000kg

HPU

- Hydraulically Driven A-Frame
- DNV Lifting Frame
- Weight 30500kg (including 3300m main lift)
- Operating Temperature -10°C to +45°C
- Controls Control from deck-mounted control and and remotely from control cabin (only pay-out and pick-up available from cabin)

Dimensions

- Length 2100mm (Excluding deck stools)
- Width 1210mm
- Height 1800mm (Includes fleeting)

Schilling HD ROV Specification

'A' FRAME

- Hydraulically powered extendable A-frame with umbilical sheave, damped snubber and rotating frame
- Safe Working Load 19000kg
- Design Factor 3g
- Weight 29000kg
- Operating Temperature -10°C to +45°C
- Max Deployed Reach $\geq 7000\text{mm}$ from main pivot
- Max Inboard Reach - To storage position
- Telescopic Extension 2700mm

Operational/Transport Dimensions/Weight

- Length 11235mm
- Width 4900mm
- Height 3647mm
- Weight 29000kg

TMS

- Schilling tether management system (TMS)
- Diameter $\leq 2263\text{mm}$
- Height $\leq 2210\text{mm}$
- Weight in Air $\leq 2865\text{kg}$ (including tether)
- Weight in Seawater $\leq 1600\text{kg}$
- 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 850m of 27mm diameter tether

Dimensions/Weight

- Length 2400mm
- Width 1900mm
- Height 2400mm
- Weight 1500kg

WINCH

- Electrically Driven ROV Lift Winch
- Active Heave Controlled System
- Winch Pull 20000kg (top wrap)
- Design Factor 3g
- Weight 50000kg (including 4200m main lift)
- Operating Temperature -10°C to +45°C
- Storage capacity Up to 4200m 35mm umbilical, Lebus shells included
- Line Speed 0-97m/min
- Controls Control from deck-mounted control stand and remotely from control cabin (only pay- out and pick-up available from cabin)

Dimensions/Weight

- Length 5200mm
- Width 4800mm
- Height 3300mm
- Weight 30000kg (excluding main lift)

