

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.

Micro Class LBV 300-5 ROV System



Product Overview

The LBV300-5 has the following attributes:

- Versatile and revolutionary - the LBV 300-5 takes stability and versatility to a new level with dual vertical thrusters. Increased vertical control and stability makes the LBV300-5 a great tool in demanding conditions. Add the revolutionary Crawler Skid and you have the ultimate maritime security system.
- Highly manoeuvrable with added vertical control - the LBV 300-5 has increased vertical power with the addition of a second vertical thruster. More than double the Bollard thrust of a standard LBV and increased stability too. The outboard thrusters enable the LBV300-5 to roll when the Crawler Skid assembly is fitted.
- Industry leading small diameter, low drag tether - SeaBotix is renowned for its impressive small diameter, low drag umbilical. At 8.9 mm (0.35 in) in diameter the operator controls the ROV, not the tether. The durable all copper tether comes in a variety of lengths.
- Highly intuitive integrated control console - the SeaBotix operator control unit (OCU) is widely regarded as the most intuitive. All controls at the operators finger tips in an ergonomic and rugged controller.
- High-Quality Video and lighting - the LBV300-5 systems are supplied with the latest Wide Dynamic Range (WDR) colour camera technology. Coupled to the colour camera is a high intensity LED array providing bright white light throughout the 270° range of view.
- Stable balanced sensor platform - Unique to the LBV vehicles is the balanced nature of the ROV in water. Careful attention to design and layout provide a small yet stable platform for high quality sensor data acquisition.

LBV 300-5 ROV Specification

Power: 100-130 VAC or 200-240 VAC

Vehicle Dimensions: Length x Width x Height: 52.0cm x 44.5cm x 26.0cm (300m rated)

Weight: 20kg

LBV

- Depth Rating - 300 Meters Seawater (MSW)
- Length - 520 mm
- Width - 445 mm
- Height - 260 mm
- Diagonal - 565 mm
- Weight in Air - 13 kg
- Protection - Polyethylene bumper frame

THRUSTERS

- Thruster configuration - Five (5) Brushless DC thrusters - Two (2) forward, two (2) vertical and one (1) lateral. Each thruster is identical and isolated
- Bollard Thrust (forward) - 7 kgf
- Bollard Thrust (vertical) - 7.5 kgf
- Bollard Thrust (lateral) - 3 kgf
- Speed at surface - 2.8 knots
- Max Operating Current - 2 knots

CAMERAS & LIGHTING

- Camera Tilt - 180 degrees - internal chassis rotates
- Range of View - 270 degrees - 180 degrees from tilt, 90 degrees from camera lens
- Camera - Primary - 680 line High resolution colour - 0.1 Lux @ f2.0
- Focus - Manual focus control via operator control unit. 90mm to infinity
- Video Format - NTSC or PAL
- Output Signal - Composite
- Internal Lighting - 700 Lumen LED array. Variable intensity via operator control unit

TETHER

- Diameter - 8 mm
- Length - 150 meters
- Buoyancy - Neutral in Seawater
- Conductors - Twisted pair with shield (power, telemetry, serial data), twisted pair (video), twisted pair (Ethernet)

CONTROL SYSTEM

- Sensors - Heading, depth, temperature
- Auto Functions - Depth, heading, trim

INTEGRATED CONTROL CONSOLE

- Length - 452mm
- Width - 328mm
- Height - 173mm
- Weight - 20 kg
- Input Voltage - 100-130 VAC or 200-240 VAC
- Power Requirement - 1,000 Watts maximum
- Safety - Isolated input power, circuit breaker, line insulation monitor, leak detector. Meets and exceeds "Code of Practice for the Safe Use of Electricity in Water"

FLY OUT SYSTEM

- Ideal for vessel or platform based IRM projects where inspection tasks are required in restricted access locations
- Available for Cougar XT and Super Mohawk observation class ROV's
- All power and telemetry requirements required by the micro class LBV provided by the host observation class ROV system
- 50m tether capacity
- Hydraulic tether winch
- Garage system with hydraulic opening feature to retain LBV during deployment and transit
- LBV capable of carrying out CP, UT tasks

