

Light Intervention Class Smart ROV



ARGOS is a new development of Light Intervention Class Smart ROV from Forssea Robotics, specialists in subsea vision and autonomous ROV technology. The vehicle embraces the latest advances in ROV technology that the industry has come to demand and expects from modern ROV design. ARGOS is compact in design and the vehicle is powerful enough to perform IRM operations with use of the optional electric five function manipulator arm and various tooling and survey skid interfaces.

The standard system has been designed and built to 500m depth rating, however the unique design of this ROV allows the vehicle to be extended up to 1000m with simple modifications. Forssea's Artificial Intelligence and Autonomous mission planning options are fully compatible with the ARGOS platform.



All Electric ROV



Hybrid (*Tether or Battery Powered*)



TCP/IP Real-Time Control



30kg Payload (*Survey Tooling Skid*)

PAYLOAD EXAMPLES

- Dynamic Laser scanning Skid
- Electric Class 4 Torque Tool
- Flooded Member Detection with rotator Skid

DIMENSIONS & PERFORMANCE

| | |
|----------------------|------------------------------------|
| Depth Rating | 500m (Option 1000m) |
| Weight in Air | 170kg (Including payload) |
| Length | 1100mm |
| Width | 790mm |
| Height | 684mm ; 819 (w/ INS + DVL Skid) |
| Power at ROV | 7kW |
| Payload | 20kg |
| Through Frame Lift | 60kg |
| Thrusters Horizontal | 4 x SPE-75 |
| Thrusters Vertical | 2 x SPE-75 |

THRUST

| | |
|---------------|-------|
| fwd/aft | 90kg |
| port/stbd | 52kg |
| vertical (up) | 40kgf |

SPEED

| | |
|----------|-----------|
| Fwd | 3.5 knots |
| Aft | 3 knots |
| Lateral | 2.5 knots |
| Vertical | 2 knots |

- Auto Functions (Heading, Depth, Altitude)
- Option for semi autonomous mission planning & Dynamic Positioning

SYSTEM & OPTIONS

CAMERA SYSTEMS

- Ethernet HD Obs Cam
- Rear Docking HD Smart Cam
- Nav Cam (Optional)
- Tilt unit with position feedback

LIGHTS

- Up to 5 dimmable LED lights

POSITIONING:

- Depth sensor accuracy 0.3 m
- Integrated AHRS
- ROVINS Nano & Nortek DVL (Option)
- Pitch and Roll accuracy 0.05°
- Heading accuracy 0.15°
- Tritech Super SeaKing OAS (Option)
- Tritech PA500 Altimeter
- Forssea V-LOC software (Option)
- Responder (Option)
- Xenon Flasher (Option)

- Skid Options (60kg through frame lift)
- 5-function Electric Manipulator
- Aux Tooling HPU
- Electric Class 1-4 Torque Tool
- FMD Tool with Rotator
- Profiling Sonar
- 3D Laser scanning
- Sub-bottom profiler
- Cleaning Brush

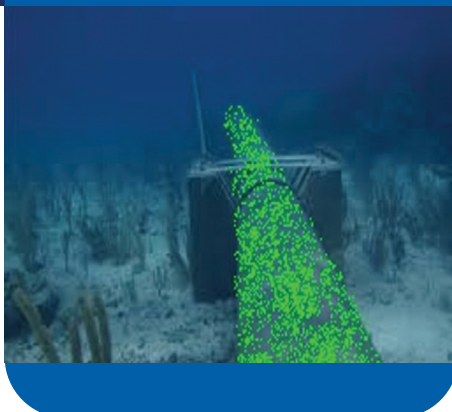
ARTIFICIAL INTELLIGENCE OPTIONS



Autonomous Docking



Machine Learning



Waypoint Autonomous Navigation

