



# FUGRO SEAEYE TIGER

**With over 90 Seaeeye Tiger ROV systems in operation, the Tiger design has built up a strong reputation for performance, flexibility and reliability and is well established as the industry standard inspection ROV. This small, but powerful vehicle, has been designed to undertake a broad range of inspection tasks and the combination of its payload, auxiliary power and communications channels allows the vehicle to carry a wide range of additional inspection systems.**

The highly manoeuvrable design features four vectored horizontal thrusters that provides an excellent power/size ratio making it the system of choice in strong tidal currents. The Fugro group operates a fleet of 13 Seaeeye Tiger systems in 600msw or 1000msw depth ratings and continues to invest in this model as a result of growing market demand. The Fugro Subsea Services Limited fleet of Tiger systems are all equipped with garage TMS and are designed for platform-based operations supplied as Zone 2 systems with a gravity-base Launch & Recovery system that obviates the need for welding.

**System Features:**

- Vehicle rated to 600msw or 1,000msw
- SM4 Brushless DC thrusters.
  - 4 Vectored units in horizontal plane plus 1 vertical unit
- 2 Simultaneous Cameras plus 1 switchable
- Fibre-optic video and data transmission on most Tiger systems
- 32kg payload
- Hydraulic Manipulator/Tooling Skid (optional)
- Side entry TMS (Tether Management System) with 150m or 250 m tether capacity
- Crane or A-frame based deployment system rated for Sea State 6. Gravity base and Zone 2
- A60 Control Container (Zone 2)



*Gravity based deployment systems suitable for operations in Seastate 6.*



*Compact and highly maneuverable, the Seaeeye Tiger is an ideal tool for Visual inspection tasks.*



# SEAEYE TIGER

## Technical Specifications

### Vehicle Dimensions

Length	1.03m
Height	0.59m
Width	0.70m
Weight	150kg
Depth Rating	600msw or 1000msw
Payload	32kg
Thrusters	5 x Seaeye SM4 Brushless DC motors configured as 4 x Vectored horizontal and 1 x vertical
Chassis type	Open frame constructed from polypropylene with stainless steel reinforcement
Buoyancy	Syntactic PVC foam

### Performance

Fore/aft	62 kgf
Lateral	43 kgf
Vertical	22 kgf

### Speed

Fore/aft	3.0 knots
Lateral	2.0 knots

### Power

380-480Vac 50/60hz, 60KVA nominal

### Standard Equipment

Video Channels	2 simultaneous Video Channels & 1 switchable
Cameras	1 x lowlight monochrome, 1 x colour
Tilt Unit	Electrical Tilt unit $\pm 90$ degrees
Lighting	2 x dimmable LED (2 mounted under tilt unit)
Sonar	Kongsberg 1071/1171
Compass	Flux-gate with solid-state rate stabilisation sensor Accuracy $\pm 1^\circ$ , Resolution 0.35°
Depth gauge	Electronic pressure sensor Accuracy $\pm 0.1\%$
Auto Pilot	Auto Depth and Auto Heading
Other Options	Digital Stills Camera, CP System, FMD, minibeacon, UT system Leak Detection System Survey Gyro and Survey grade depth sensor.

### Tether

Type	Thermoplastic Polyester (TP)
Diameter	17mm
Length	150m, 200m or 250m depending on TMS used
Weight in water	Neutral
Weight in air	330kg/km

### Tether Management System (TMS)

Seaeye Marine garage Type 2; 4; or 5 TMS with excursion ranges from 150m to 250m dependant on TMS type and project requirement.

### Control Container

Dimensions:	(Typical)
Length	4.6m
Width	2.4m
Height	2.6m
Weight	10 Te
Classification	DNV 2.7-1 / EN 12079
Equipment Fit	Zone 2
Transformers	1 x isolation for ROV 1 x domestic supplies
ROV Control Unit	Rack mounted control system with ROV Hand Controller
Sonar Processor	Rack mounted PC-based
Video System	6 x Monitors 2 x HDD-DVD recorders Optional DVR system
Video Overlay	Date, time, heading, depth, tilt angle, autofunctions, turns counter, CP

### Launch System

The Tiger and its accompanying garage TMS are deployed from a LARS skid consisting of an integral Winch, Crane / A-Frame and Hydraulic Power Pack. This gravity base LARS is designed to be rapidly mobilised and is even able to work from a fixed platform without the need for a welded attachment to deck to a depth of 300msw.

### General skid particulars (typical)

Dimensions	4.1m (L) x 2.74m (W)
Weight	11 tonnes
Weather Limits	Seastate 6
Classification	EN 12079, Zone 2, Lloyds Register CLAME
Power Pack	Electric Power 380-480vAC, 50/60Hz

### Tooling Skid / Packages

Tooling Skid Options comprising, 4F Manipulator Skid, FMD Orientation Skid, Cleaning Brush Skid and cable cutting skid.

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