

TMS Tiger Offshore ROV System



Tiger ROV System – 1000m depth rated

Our Tiger ROV (remotely operated vehicle) is configured to be a 1000 metre depth rated TMS offshore ROV system and comes complete with A60 Zone 2 control container and A60 Zone 2 Telescopic A Frame LARS (launch & recovery system). The ROV is ideal for close and general visual inspections of client subsea assets, offering a complete survey package from high pressure water jetting to FMI surveys. The whole system is very compact with a small foot print, this is highly important for deck space on vessels.



9Kw 120 Bar HP Water jet –
Optionally fitted to the Tiger
ROV

Specifications of the Tiger ROV

- Maximum operating depth: 1000 metres
- Dual video channels
- Saab Seaeye Colour camera (Tritech Typhoon colour zoom & focus camera - optional)
- Saab Seaeye low light Monochrome camera
- 32 Kg (70 lb) payload
- 4 Vectored and one vertical Seaeye SM4M thrusters with velocity feedback
- Tritech Super Seaking DST Sonar
- 300 watts of variable intensity LED lighting positioned on the camera tilt platform
- Integral video overlay
- Zone 2 Control Container
- Zone 2 Telescopic A Frame LARS

Optional Tooling packages

- 9Kw 120bar HP water jetting cleaning system
- Contact or Proximity CP
- Pipe / cable tracking system
- Cygnus Ultra thickness measurements
- Mechanical cleaning
- Scaling cameras
- 660Vac 3 Phase power outlet option
- Single or 5 function manipulator option
- Flooded Member Detection

Size, Weight and Thrust

- Length 1030 mm
- Height 590 mm
- 800 mm (with tooling skid)
- Width 700 mm
- Thrust Fwd 62 kg
- Thrust Lateral 43 kg
- Thrust Vertical 22 kg
- Weight 150 kg
- Payload 32 kg

Power requirements

- 3 phase 380 to 480Vac 63amp

**A60 Zone 2 ATEX ROV Control Cabin BS EN 12079 DNV 2.7-1 standard:
Length 3.9m x Width 2.42m x Height 2.66m -**

Weight: 6.3T

Power cable length: 30m

LARS deckleads lengths: 30m

- EX and monitoring equipment
- 380Vac to 460Vac 3 Phase to single phase 7KVA domestic transformer
- 440Vac to 660Vac 9Kw tooling 3 phase transformer for high pressure water jetting system
- 2 x 3 phase 32amp sockets for winch and ROV
- 1 x 3 phase distribution panel
- 1 x single phase distribution panel
- 19" Racking complete with supporting equipment (see below)
- Heating
- Storage cupboards
- Inspection co-ordinators desk complete with monitor
- COSHH cabinet
- System certificates and manual shelf

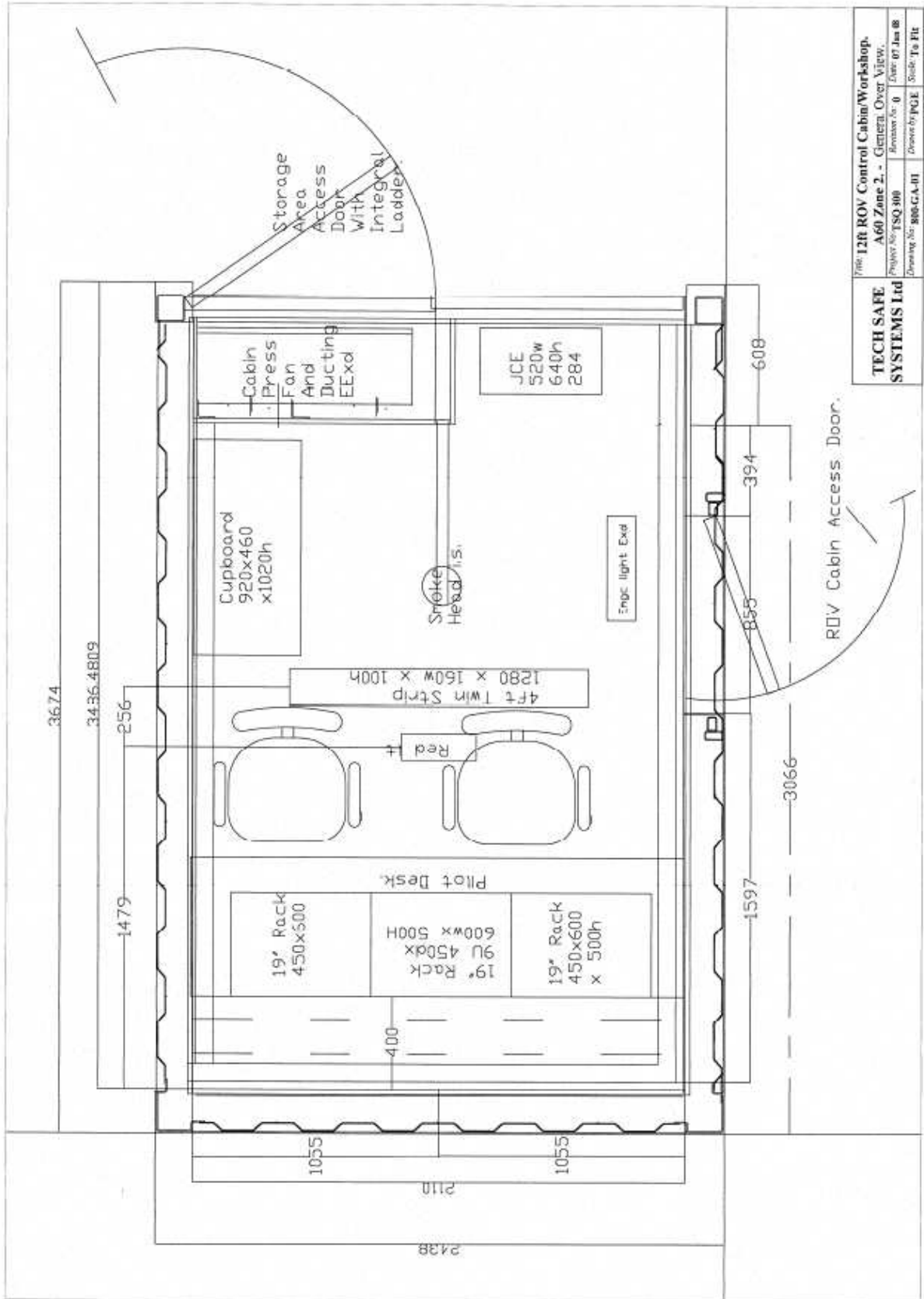
Ancillary equipment fitted within the 19" control racking

- 2 x Pilot Pal monitors
- 1 x Pilot Sonar VGA monitor
- 1 x Pilot diagnostic VGA monitor
- 1 x ROV PSU
- 1 x ROV 10PDU
- 1 x Netmc Marine DVR inspector (interfaces with Scope and Coabis inspection software)
- 1 x Netmc Marine Overlay system
- 1 x Panasonic AG-7350 SVHS recorder
- 2 x Survey Pal monitors
- 1 x Coordinators monitor
- 1 x Canford Communication master station
- 1 x Kramer 4 x 4 switcher
- 1 x Tritech Seanet Scu
- 1 x General PC for paperwork and DVD burning – complete with Pinnacle video editing and Nero Burn software
- 1 x Colour printer



13' Zone II ROV Control Container

Internal Layout of the Tiger ROV Control Cabin



LARS to A60 Zone 2 ATEX: Length 4m x Width 2.5m x Height 2.5m (Transit Height)
Weight: 14T
Decklead length: 30m
Mainlift Umbilical length: 1100m

- Capacity 1100m of umbilical
- Hydraulic winch unit with automatic break
- Telescopic A Frame giving a total out reach from the front of the LARS of 2.5m
- Sacrificial tie down points
- Gear & Chain driven diamond bar and traveling block for drum spooling
- Sheave wheel complete with lock latch assembly SWL500kg

ADU 3 Mainlift umbilical	
O/D	31 mm
Sheathing	Contra-helically wound, double armoured
Breaking strength	24 tonnes
Weight in air	2770 Kg/Km
Weight in water	2040Kg/Km
Min Bend Radius	500 mm

Tiger TMS Telescopic A Frame LARS



Type II Saab Seaeye Tether Management System (TMS)

Our Seaeye bale arm TMS comprises a side entry garage configured to accommodate one of our Tiger ROV's. A detachable top section contains the tether management mechanism and controls. The tether is stored on a polypropylene bobbin with a bale arm mechanism to spool the tether evenly onto and off the bobbin. The bale arm is powered by a Seaeye SM4 thruster motor which is connected to the bale arm reduction gearbox. The control electronics are contained in a one atmosphere, hard anodised, pressure housing and all connectors are Seaeye metal shell type. The TMS has an adjustable base for our ROV tooling skids.



Dimensions:	Type 2
Length	1200 mm
Width	1200 mm
Height to lift eye	1640 mm
Total Weight in air	Approx 650 Kg*
Depth Rating	1000 metres

Tether Type:	5601
O/D	17 mm
Sheathing	Polyurethane
Breaking strength	2000 Kg
Weight in air	340 Kg/Km
Weight in water	126 Kg/Km
Min bend radius	230 mm

Subsea Vision

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