

TECH SAFE SYSTEMS LTD

Split Control Cabin & Workshop



These systems are an ideal solution for compact working locations.

Offering the ultimate in space efficiency.

Split CC/Wsp V2 2010



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Split Control Cabin & Workshop



Description:

The cabin is divided into two areas; control cabin and workshop.

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ROV Control Cabin.

The control cabin is designed to provide facilities for personnel to operate Remotely Operated Vehicle (ROV) and sensors in a safe comfortable environment. Also to power and provide instrumentation for the ROVs, its Tether Management System (TMS), deck pack and other ancillary functions.

The cabin will be fabricated, insulated lined and fitted out to the required rating allowing these operations to continue safely in the required area on or offshore.

The layout of the interior can be designed to the most space efficient and user friendly option by our in-house design team.

Workshop / Stores.

Workshop for maintenance and storage of spares and tools. A non-pressurised area, accessed via double doors, fitted with heavy-duty workbench and storage cage. Also houses the air conditioner heat exchanger section (if applicable), hook up junction boxes, pressurisation fan & inlet ducting power supply and communications cables. The cabin pressurisation fan is ducted to the ventilation inlet via a pneumatic damper. This is installed in the workshop area in the dividing bulkhead. The exhaust outlet is via pressure adjustable flow valve and a pneumatic damper. The bulkhead is also fitted with transit frames, providing access for power and signal cables.

The workshop floor is durbar plate laid over the insulation.

Electrical, - 110 volt industrial sockets. 1x twin strip light, plus emergency light, smoke alarm and extractor fan.

Additional Options:

Integration with your choice of vehicle on site at TSS.

A small test tank can be made available on site for integration trials.



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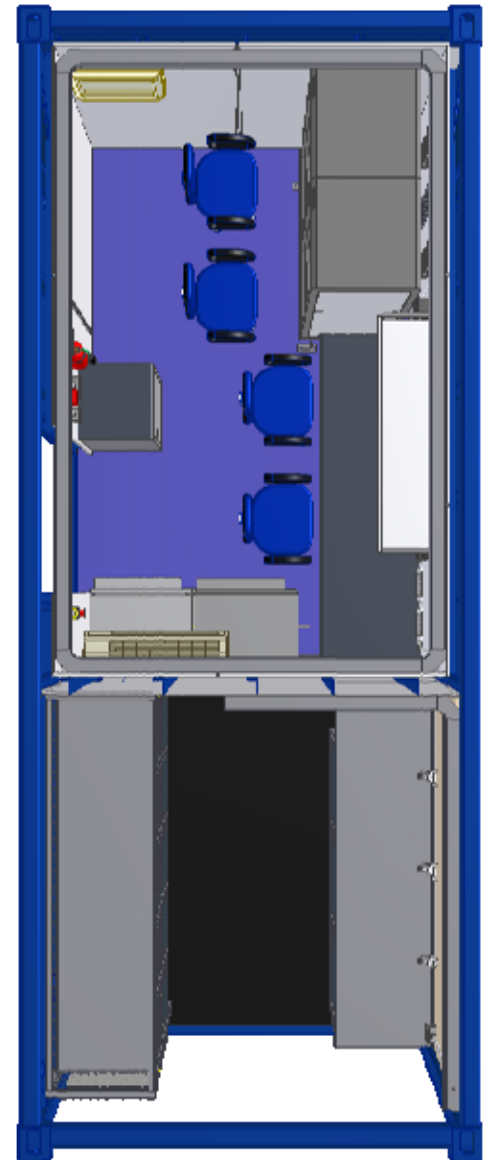
Below right: A typical split cabin interior layout with storage racking and workbench in the workshop end & desks, 19" equipment racks.

Below: 19" Equipment racks mounted on a rolling base. To gain access to the rear of the racks, the base is simply unlocked and moved forward on rolling wheels and locked in the outer position. This outer position provides 400mm of additional clear access behind the racks, enabling re-wiring or maintenance in moments.



Below left: ROV pilot / observer consol, purpose built to client requirements. Here we have a desk with wall mounting for flat screen monitors. 400mm space behind enables access for rewiring or changing equipment.

Split CC/Wsp V2



Specifications for Split Cabin & Workshop



GENERAL CONSTRUCTION

Split CC/Wsp V2 2010

Classification Options	Safe Area, A60, Zone II, ATEX Group II – Category 3G.
Build Standard	Purpose built offshore service container. Load tested, marked and certified to BS EN 12079 and DNV 2.7-1
Certifying Authority	Lloyd's Register of Shipping
External Dimensions	Standard lengths are 16ft (4880mm), 20ft (6096mm) & 40ft (12,192mm). Other sizes can be manufactured however they may incur additional costs and lead-times. Width & heights are standard 2440mm wide x 2590mm high (8 ft 6")
Structural Materials	Bulkheads will be 4mm corrugated plate. Flat plate available as an option.
Lifting Points	Fork lift pockets set into base, lifting padeyes to top corners. ISO corners to base. 4 leg sling and shackles bespoke to each build (optional extra).
Personnel Access Door	Outward opening, lockable A60 door, with 1900 x 850 mm opening.
External Protective Coating. Single colour to customer requirements.	Surfaces will be shot blast clean. Primer and Intermediate coating layers 2 part epoxy paint. Top coating 2 part Polyurethane finish. The roof to be non slip finish. Underside protected with bitumastic black paint.

INTERNAL CONSTRUCTION

Passive Fire Protection	Bulkheads, floor & deckhead are insulated and lined with heat and fire retarding materials to SOLAS A60 standard.
Walls and Ceiling	Lined with non combustible Cape wall board, covered with fire rated white Formica sheet.
Floor	DOT approved non slip & fire retarding certified vinyl Altro floor. Our colour recommendation is Twilight Blue.
Interior Layout	Can be designed in-house, bespoke to the Client's requirements.
Heating & Ventilation	Ventilation is provided by the cabin pressurisation / ventilation fan, via the inlet and exhaust duct.

ELECTRICAL

Cabin required supply	Electrical. 380 - 460 vac. 50 / 60 Hz. 3 phase @ 63 Amps. Neutral not required. Air. 80 to 120 PSIG. 2 Cu ft/min. (for pneumatic dampers zone 2 only)
Transformer	The cabin transformer is secured to the floor within an enclosure. Input: 380 to 460 vac.50/60 hz. Output:220 vac and 110V.
Electrical equipment.	Cabin supply via the purge control unit into the electrical distribution panel.
415 volt supply	<u>415 Volt</u> AC three phase distribution panel
110 volt supply	<u>110 volt</u> AC single phase distribution panel with RCD protection

STANDARD SAFETY EQUIPMENT IN CABIN

Break glass call point, smoke alarm, fire extinguisher, Hager panel, ceiling mounted emergency light, photo luminescent fire exit sign, safety signs, cabin data plates.	
OPTIONAL EXTRAS	Escape hatch, Free standing heater, Air conditioning, 19" Rack Rear Access. Rolling Rack System, Lifting Sling & shackles bespoke to the cabin
DOCUMENTATION	Master Paper version & CD version manuals. These include certification, product manuals and operating procedures. ATEX Compliance Documentation Packs where applicable.

Note: Specifications may change without prior notice.

Tech Safe Systems design & manufacture a variety of Launch & Recovery Systems and Winches to suit observation and work class ROVs.

Please request or download the relevant data sheets.