

Specification

Total workshop floor area	800m ² (8,600ft ²)
Designated work bays	2 x 7.3m x 6.0m (24ft x 19.7ft) 2 x 7.3m x 5.0m (24ft x 16.4ft) 1 x 7.3m x 4.5m (24ft x 14.8ft)
Main entrance	6.0m h x 3.6m w (20ft h x 12ft w)
Overhead gantry crane	SWL: 5tonne (11,000lbs) Hook height: 6.0m (20ft)
Forklift capacity	12tonne (26,500lbs)
Test bay	6.0m l x 6.0m w x 3.0m h (20ft l x 20ft w x 10ft h)
Test bay door width	4.0m (13ft)
Hydrostatic pressure test capability	0 - 2,050bar (0 - 30,000psi)
Hyperbaric test chamber dimensions	280mm Ø x 1,620mm l (11in x 63.8in)
Hyperbaric pressure test capability	0 - 340bar (0 - 5,000psi)
Confidential R&D Workshop	54.5m ² (586ft ²)
Yard area	800m ² (8,600ft ²)
Yard crane facilities	Accessible to mobile crane up to 250tonne (550,000lbs) capacity

Subsea Technologies Ltd

Workshop

Facilities and Services

- FAT, SIT, Assembly, Maintenance, Refurbishment, Repair
- 6m x 6m pressure test bay for safe testing up to 30,000psi
- Extensive range of general workshop tooling
- Separate workshop for confidential R&D work

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Quality workshop and flexible service for all project types

At STL we build safety-critical subsea products which have to perform in the most demanding locations. This means we need workshop facilities where we are able to fully trace all product assembly, testing, repair and maintenance operations.

We are also able to offer these benefits to our customers for the assembly, maintenance and testing of their own products. Our service covers one-off bespoke items, R&D or qualification testing, and regular assembly and maintenance work. We have both an indoor workshop and outdoor yard facilities capable of supporting mobile cranes of up to 250T capacity. This allows us to offer stack-up trials of complete subsea systems, as well as testing and maintenance of individual tools.

But we offer much more. At STL, we support repair and re-certification projects with design engineering and finite element analysis work from our in-house engineers, while our project management team support projects from planning through performance and delivery. Whether you want STL to manage your entire project, or you would prefer to provide your own personnel to work on your equipment, we will work

with you to achieve your requirements successfully.

Our workshop facilities include:

- 8,000sq ft indoor workshop
- 8,000sq ft outdoor yard/SIT space
- Separate 500sq ft R&D workshop available for exclusive confidential R&D work
- 6m x 6m x 3m (h) pressure test bay for safe hydrostatic testing up to 30,000psi
- 1.3m Ø x 1.8m (h) watertank for safe gas testing up to 10,000psi
- Hyperbaric test chamber (see opposite)
- 5T overhead gantry crane*
- 12T forklift*
- Wide range of general workshop tooling
- ISO 9001 certified by Lloyd's Register

Our workshop and support services include:

- Sub-contract assembly and factory acceptance testing (FAT)
- Refurbishment, maintenance and recertification
- Repair of damaged equipment (using our in-house engineering team to carry out the repairs and project manage welding, machining, re-assembly, re-testing and recertification)
- Sub-contract research and development work (qualification testing, cycle testing, function testing, product/material investigations, product certification)
- Stack-up trials and system integration testing (SIT) which can be performed indoors or out, depending on the facilities and head room required
- Design and manufacture of bespoke pressure-containing items such as crossovers, adapters, test caps, etc.

* Forklift and crane operations must be undertaken by STL personnel

Versatile hyperbaric test chamber and expert support

Dimensions of chamber: 1,620mm length by 280mm diameter

The qualification of products and components for deepwater subsea use usually includes hyperbaric testing and certification of the prototype. Depending on the type of product, each production assembly may also require individual testing.

Hyperbaric testing is often expensive, but STL can now offer a cost-effective service. Our hyperbaric test chamber is available for testing and certifying smaller subsea components to 10,000ft (3,000m) simulated water depth (5,000psi/340 bar).

The chamber dimensions are 1,620mm length by 280mm diameter, and it is suitable for testing small subsea assemblies such as hydraulic control valves, subsea lights, subsea cameras, ROV control pods, cable terminations, subsea couplers, etc. The chamber can be used for one-off testing work as well as certifying batches of components.

Each end cap has four off ½" NPT pass-through ports, allowing hydraulic control of assemblies within the test chamber. Electrical or optical access can also be gained through the same ports (with appropriate glands) to function or take measurements from the components within the test chamber.

We can test and qualify your products to suit your requirements, including third-party witness and certification, and we offer hyperbaric testing as a stand-alone service or as part of a larger qualification, testing, or project-managed development programme.

