

Marine Container Test Services Ltd

Europe's Only Fully Independent ISO Container Testing Facility

A well established facility with over 30 years combined test experience.

Two years on, Marine Container Test Services Ltd still remains the only independent ISO container and tank testing station in Europe, offering prototype testing for type approval, random batch testing and development work.

- ISO 1496-1/5, CSC
- Offshore Testing to DNV 2.7-1, 2.7-3 and EN 12079
- Swapbody testing to EN 283
- Project Management
- Non-ISO / Non-Standard Testing
- Non-destructive Testing (MPI: PCN Level 2 Qualified)
- Structural Design Consultancy (Including Finite Element Analysis)



Wide client base across the industry including:

- BNFL
- Magyar
- GE Seaco
- Container Leasing
- Environmental Packaging Technologies



All testing witnessed by major classification societies

- Lloyds Register
- Bureau Veritas
- DNV
- ABS



Proud members of the Container Owners Association

For further information please contact

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Marine Container Test Services Ltd
Ditton Road
Widnes
WA8 0QW

Company Reg. No. 5607681

**MARINE
CONTAINER
TESTING**

Company Background

MCTS has now completed its second year in business since it was acquired by its sister company Marine Container Consultants Ltd in September 2005.

The success of the last two years has led to Engineering Manager Chris Favager being appointed as Technical Director and the addition of Design Engineer Colin Taylor to the MCTS staff. This expansion means that MCTS can now offer the Intermodal industry a service that not only provides a bespoke testing and project management facility but also the opportunity of independent design consultancy and Finite Element Analysis (FEA).

MCTS is keen to invest in the future of the test facility, and as such is also in the process of employing an additional member of staff through a local training colleges' Engineering Apprenticeship Scheme. The successful candidate along with the standard test rig requirements will also undertake weld inspection, non-destructive testing and coded welding courses along with the standard HSE at work requirements.



The facility is managed and operated by approved test engineers with a combined experience of over 30 years, capable of carrying out all mechanical strength tests to comply with the statutory requirements of ISO (International Organisation of Standardisation) CSC (Convention of Safe Containers) European Swap Body Regulations, DNV 2.7.1 and EN12079 (Offshore regulations).

The test facility can handle tank containers from 1000ltr mini tanks to 13.6m Swap body tank containers, freight containers, offshore units up to 18m long and curtain side / box trailers.

A number of improvements to the facilities offered to its clients have been made, including the availability of WiFi Broadband for visitors.

In addition, the development and implementation of tailored data management systems specifically designed for test requirements has enabled MCTS to schedule projects and facilitate rapid issue of test reports.



In 2008 a further improvement to the MCTS service will be launched, with the implementation of test report document hosting for clients to view reports on the web.

2006 saw new hydraulic systems installed to accommodate the latest ISO requirements for increased stacking and transverse racking test load values. The facility is also being subjected to major modifications to enable additional testing in accordance with DNV 2.7.1 and EN12079 more efficiently than the current offshore test methods.

Along with improvements to the test facility, training courses have also been undertaken to keep the test staff fully appraised and qualified, with the ever changing requirements of the Health and Safety Executive, ISO, CSC and offshore regulations.

The test engineers are now in their second year of carrying out NDT (MPI) PCN Level 2 which has seen various projects completed for the offshore industry in accordance with DNV 2.7-1 and EN12079.

Two years on, Marine Container Test Services Ltd still remains the only independent ISO container and tank testing station in the UK, offering prototype testing for type approval, random batch testing and development work.

MCTS has continued to cater for non-ISO test requirements, tailor-made to meet customers' needs and now adds independent design consultancy and FEA to its portfolio of services.

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Range of Services

At Marine Container Test Services Ltd we offer a wide range of specialist services for all types of units and equipment from full prototype to random batch testing. We can also undertake investigation work to meet customers' requirements, with the recent addition of FEA (finite element analysis) through our design consultancy.

Structural Design Service

- Mechanical design & structural analysis of ISO containers, offshore units, swapbodies and general structure
- Calculations using ANSYS Finite Element Analysis software, hand calculations and mathcad
- Thermal analysis including conduction, convection, radiation & insulation

Offshore Prototype and Random Batch Testing

(Standards: DNV 2.7-1 and EN 12079)

- Containers
- Tanks
- Pipe Baskets
- Drum Baskets
- Accommodation Units



ISO Testing in accordance with ISO 1496-1/5

(Sizes: 10' to 40')

- Tank Containers (Liquid & Gas)
- General Freight Containers
- Refrigerated Containers
- Generator Containers



Swap Bodies up to 13.6M in accordance with EN 283

- Tanks
- Containers
- Trailer Bodies (curtain side / box type)



Other Services

- Non-Destructive Testing (MPI) work carried on all types of units or components either at our premises in Widnes or on site with engineers qualified to PCN level 2.
- Inspection work carried out to customer requirements on all types of units including ISO containers, offshore units, and swapbodies.
- Project management undertaken regarding all mechanical testing and inspection work.

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