

Towing Tank

Designed for constrained hydrodynamic model tests of surface ships, submarines, offshore structures and renewable energy devices, QinetiQ's Towing Tank is the largest in the UK and is one of the most capable in the world.

Dimensions

270m (L) x 12.2m (W) x 5.4m (D)

Carriage

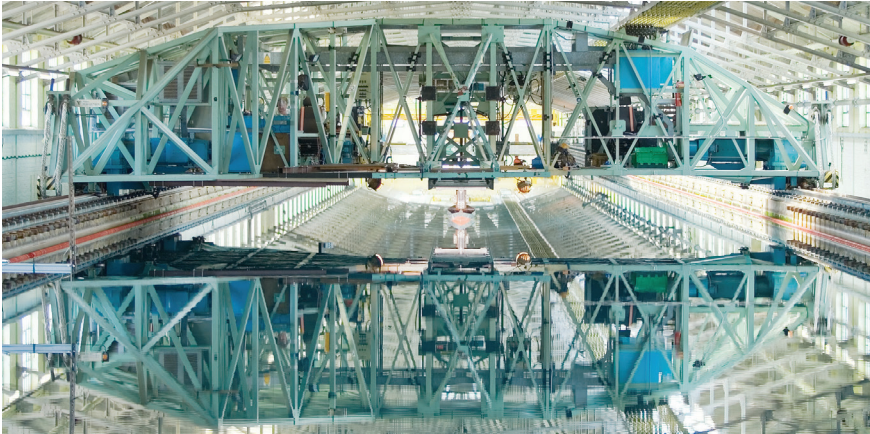
Speeds up to 12.25m/s and drag loads up to 5kN

Wavemaker

Regular waves up to 0.37m in height

Long-crested irregular waves with significant wave height up to 0.18m



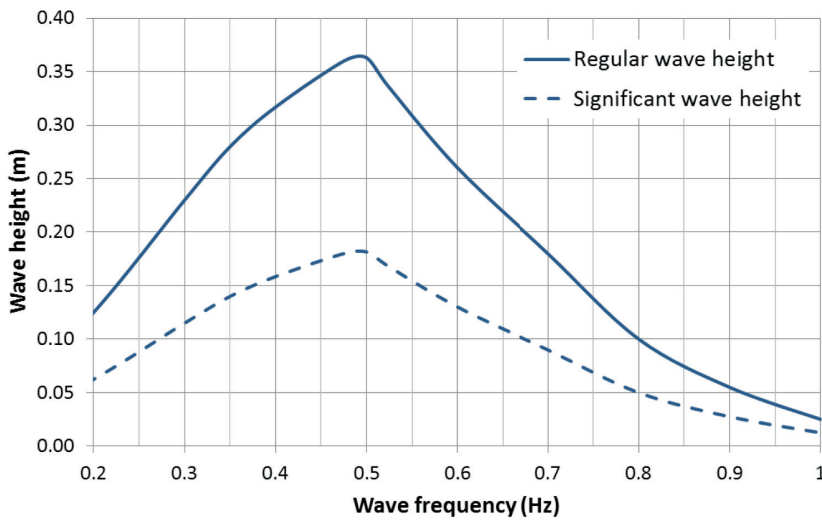


Services available

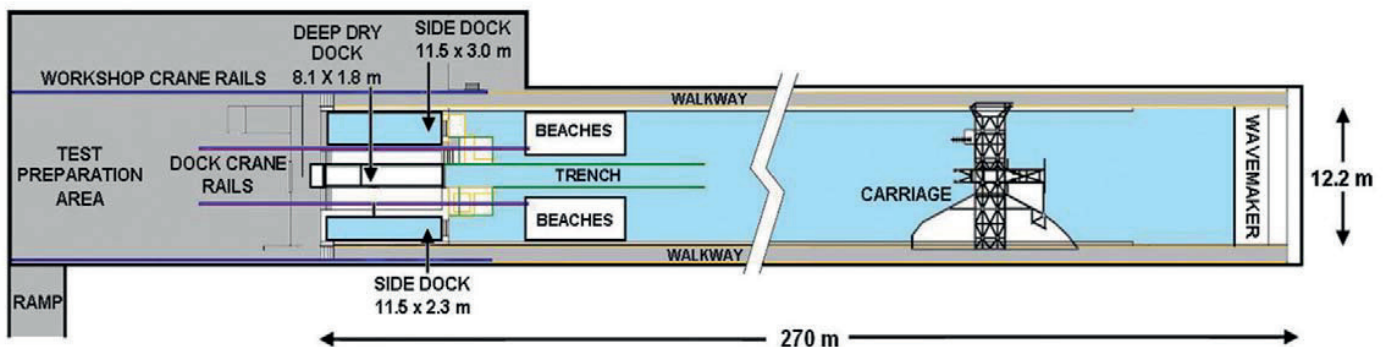
- Hydrodynamic consultancy, including Computational Fluid Dynamics (CFD)
- Model & test rig design and manufacture
- Diving, including test rig assembly underwater
- Photography (including underwater and high speed photography)

Most tests conducted in the Towing Tank employ constrained models attached to the carriage structure through a variety of bespoke rigs, each chosen to suit the application, with the carriage capable of acceleration at up to 1.1m/s^2 .

The facility is equipped with a test preparation area, a large dry dock and a 2 tonne crane. The carriage features specialist seating and an experimenters' console from which clients can observe performance during test programmes. The carriage was recently upgraded to provide improved reliability and accuracy.



Wavemaker performance envelope



Collaborating with QinetiQ

At QinetiQ we bring organisations and people together to provide innovative solutions to real world problems, creating customer advantage.

Working with our partners and customers, we collaborate widely, working in partnership, listening hard and thinking through what customers need. Building trusted partnerships, we are helping customers anticipate and shape future requirements, adding value and future advantage.

www.QinetiQ.com

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