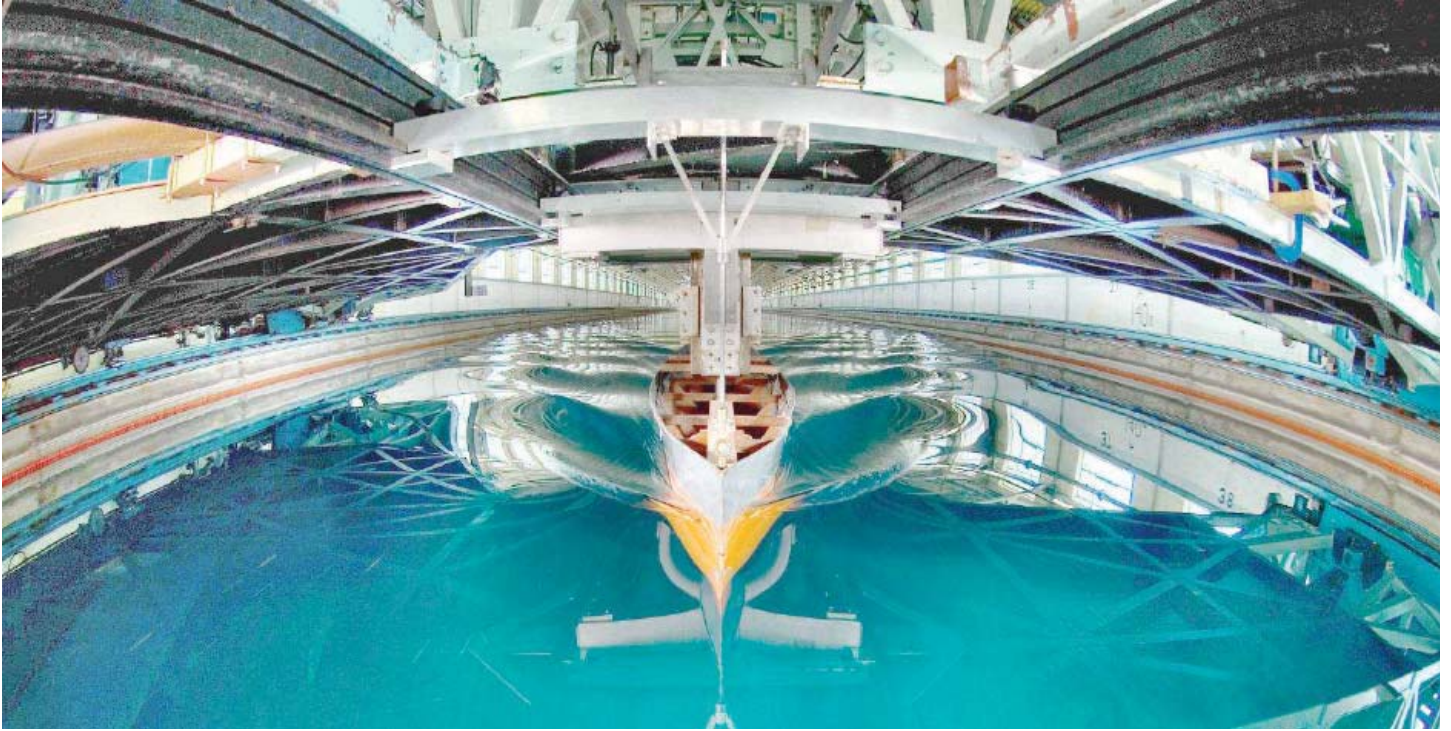


Towing Tank



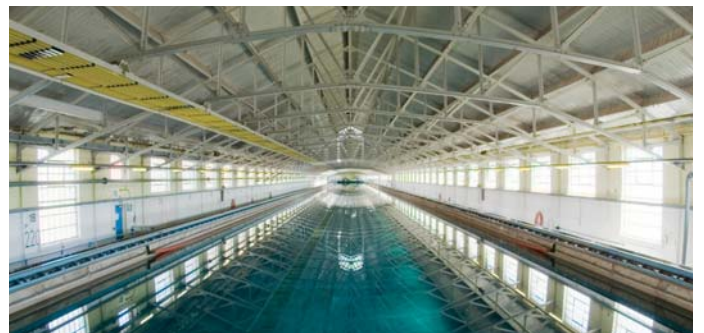
One of the largest hydrodynamic facilities in the World

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 heights up to 0.18m

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

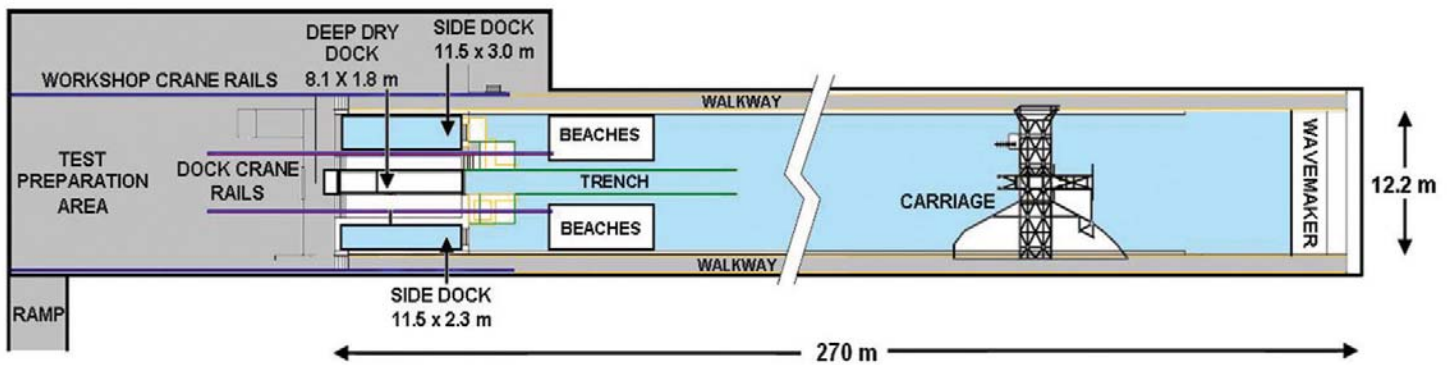


Services available:

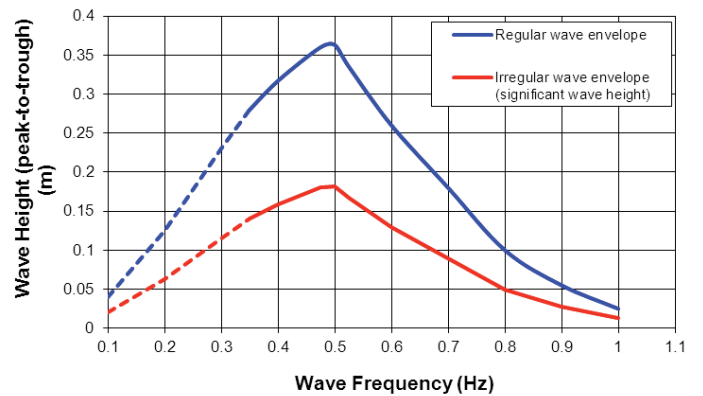
- Hydrodynamic consultancy, including Computational Fluid Dynamics (CFD)
- Model & test rig design and manufacture
- Diving, including test rig assembly underwater
- Photography (including underwater and high speed photography)



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.



The wavemaker performance envelope

QinetiQ

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