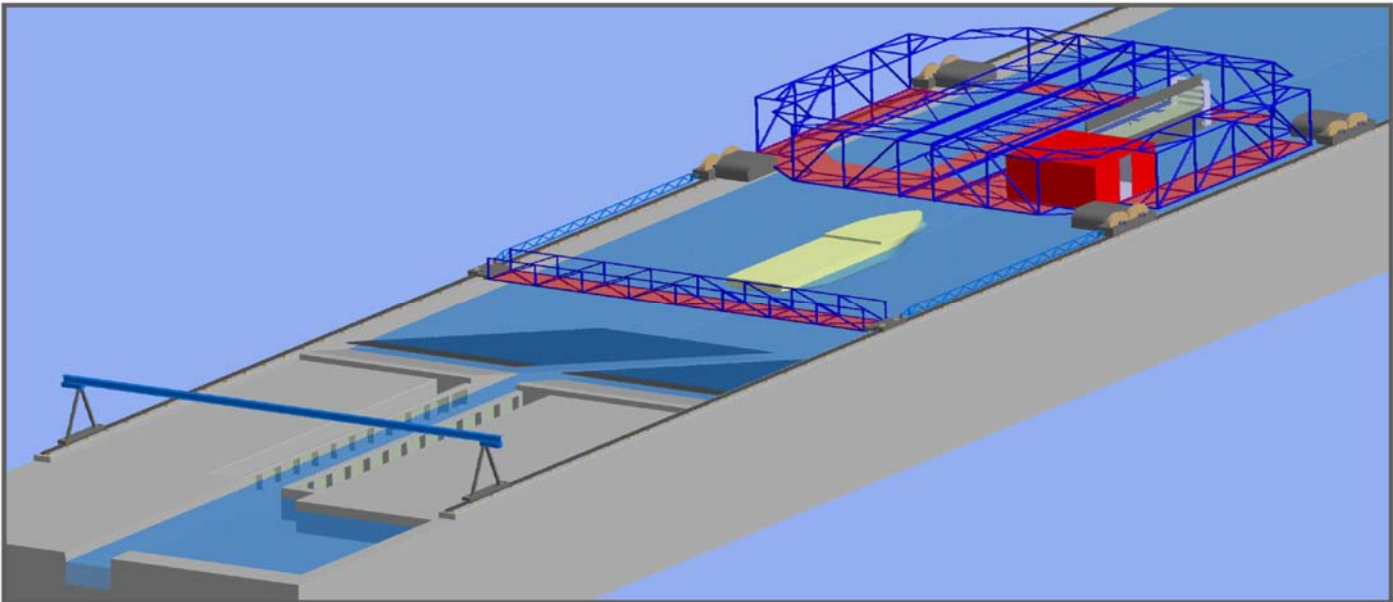


<b>Name of organization</b> <i>FORCE Technology</i>		<b>Year of information updating</b> 2016
<b>Year established</b> 1959		<b>Year of joining the ITTC</b>
<b>Address</b> <i>Hjortekaersvej 99, 2800 Kgs. Lyngby, Denmark</i>		<b>Status in the ITTC</b> AC member
<b>Contact details:</b> Phone: +45 43250700 Fax: e-mail: <a href="mailto:dmi@force.dk">dmi@force.dk</a> / <a href="mailto:dkhydrodynamics@forcetechnology.com">dkhydrodynamics@forcetechnology.com</a>		<b>Website</b> <a href="http://www.forcetechnology.com">www.forcetechnology.com</a>
<b>Type of facility</b> <i>Deep water towing tank</i>	<b>Year constructed/upgraded</b> 1959	
<b>Name of facility</b>	<b>Location</b> (if different from the above address)	
<b>Main characteristics</b>		
Length: 240.0 m	Powering: 4 x 75 kW Asyncon AC motors	
Width: 12.0 m	Speed range: from 0 to 14 m/sec	
Water depth: 5.5 m	Accuracy: +/- 0.2% of the actual value	
<b>Drawings of facility</b>		
		

**Detailed characteristics:**

- Double flap wave maker – maximum regular wave height of 0.9m with wave periods in the range from 0.5 to 7 seconds.
- State-of-the-art data acquisition and analysis system (up to 80 logging channels)
- Onboard digital video & photo system synchronized with data logging system.
- Large amplitude Planar Motion Mechanism (PMM) for captive model testing in horizontal plane.

**Equipment:**

- a) Dynamometers available for:
- ✓ Towing force
  - ✓ Propulsion tests (conventional and thruster/pod units)
  - ✓ Propeller open water test
  - ✓ Thruster/pod open water test
  - ✓ Sailing yacht test
- b) Test equipment for ships and offshore units:
- ✓ Pressure gauges
  - ✓ Force gauges (1DOF to 6DOF)
  - ✓ Accelerometers
  - ✓ Relative wave probes
  - ✓ Optical position tracking system
  - ✓ Autopilot system
  - ✓ Underwater video camera(s) and visualization system

**Applications (Tests performed)****Still water performance tests**

- ✓ Propeller open water test
- ✓ Resistance and self-propulsion tests (including verification of Energy Saving Devices (ESDs) and EEDI test)
- ✓ Bollard pull tests
- ✓ Streamlines and appendage alignment tests
- ✓ 3-D nominal wake measurements
- ✓ Maneuvering (PMM) tests and simulations
- ✓ VIV/VIM tests (offshore)
- ✓ Added mass and damping tests

**Sea-keeping test**

- ✓ Free-sailing propulsion tests in regular and irregular head waves (6-DOF motions, slamming and deck wetness)
- ✓ Added resistance/power tests
- ✓ Full DP tests
- ✓ Wave drift forces and current load tests (offshore platforms)
- ✓ Optimization of roll damping tanks and active roll damping fins

**Published description**