

Name of organization SINTEF Ocean (formerly MARINTEK)	Year of information updating 2017
Year established 1939	Year of joining the ITTC
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Type of facility Towing tank	Year constructed/upgraded 1939
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Name of facility Towing tank no. I	Location (if different from the above address)
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Main characteristics (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top)
Length: 175 m, Width: 10.5 m, Depth: 5.6 m

Drawings of facility

Top-view plan

Corss-section-view plan

- ① Model store
- ② Drawing office
- ③ Reception
- ④ Tank II
- ⑤ Ship model manufacturing shop
- ⑥ Trimming tank
- ⑦ NC milling machine for model production
- ⑧ Instrumentation workshop
- ⑨ Carpenter workshop
- ⑩ Propeller model manufacturing shop
- ⑪ Cavitation laboratory
- ⑫ Dock gate
- ⑬ Wave absorber, Tank I + III
- ⑭ Wavemaker, Tank III and Tank I+III
- ⑮ Wave absorber, Tank III

Detailed characteristics (carriages, wave/current/wind generators, instrumentations, etc.)
Towing Carriage maximum speed: 10 m/s

Applications (Tests performed)

Main tests performed in towing tanks I

- Resistance, open water, propulsion tests, 3D wake measurements
- Manoeuvring (zig-zag tests, Planar Motion Mechanism PMM tests)
- Directional stability tests
- Crabbing tests
- Ship-Ship interaction tests
- Forced motion tests
- Measurement of forces and moments in six degrees of freedom
- Measurement of displacement in six degrees of freedom
- Propeller blade loading measurements
- Six-component propeller shaft measurements
- Propeller nozzle loading measurements.
- Tests using yacht dynamometer
- Various Pod / Azimuth thruster tests
- High speed video recordings (above and under water)

Published description (Publications on this facility)