Name of organization Technical Research Center, Japan Marine United Corporation	Year of information updating 2016
Year established 2013	Year of joining the ITTC 2013
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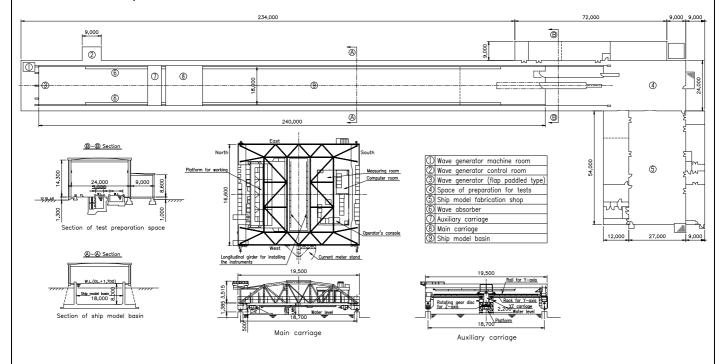
Type of facility Towing Tank	Year constructed/upgraded 1977
Name of facility Tsu Ship Model Basin	Location (if different from the above address)

**Main characteristics** (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top) Length:240m, Width:18m, Depth:8m

## **Drawings of facility**

Top-view plan

Corss-section-view plan



Detailed characteristics (carriages, wave/current/wind generators, instrumentations, etc.)

Carriages: driven by DC motors, controlled by PLC

Main carriage (longitudinal direction): maximum speed 7m/sec Auxiliary carriage (transverse direction): maximum speed 1.5m/sec

(rotation around vertical axis): maximum speed 15deg/sec

Wave generator: flap type, hydraulic, 18m wide

Wave generation capability: length 0.6-18m, height 0-0.52m

Wave absorber: trimming tank side (beach length 10m) and lateral side (slit panels)

Instrumentation: data acquisition by PCs

Model size: 6-12m for resistance and self-propulsion tests 3-8m for seakeeping and maneuvering tests

## **Applications** (Tests performed)

Resistance and self-propulsion tests in calm water or in waves,

Propeller (conventional, ducted, contra-rotational) or pod-drive open water tests

3-D wake survey by 5-hole pitot tubes

Wave analysis

Hydrodynamic force measurement in maneuvering motions

Maneuvering tests by free-running models

Wave induced motion and loads measurement

## Published description (Publications on this facility)

Nippon Kokan Technical Report-overseas, September 1978 & March 1979