

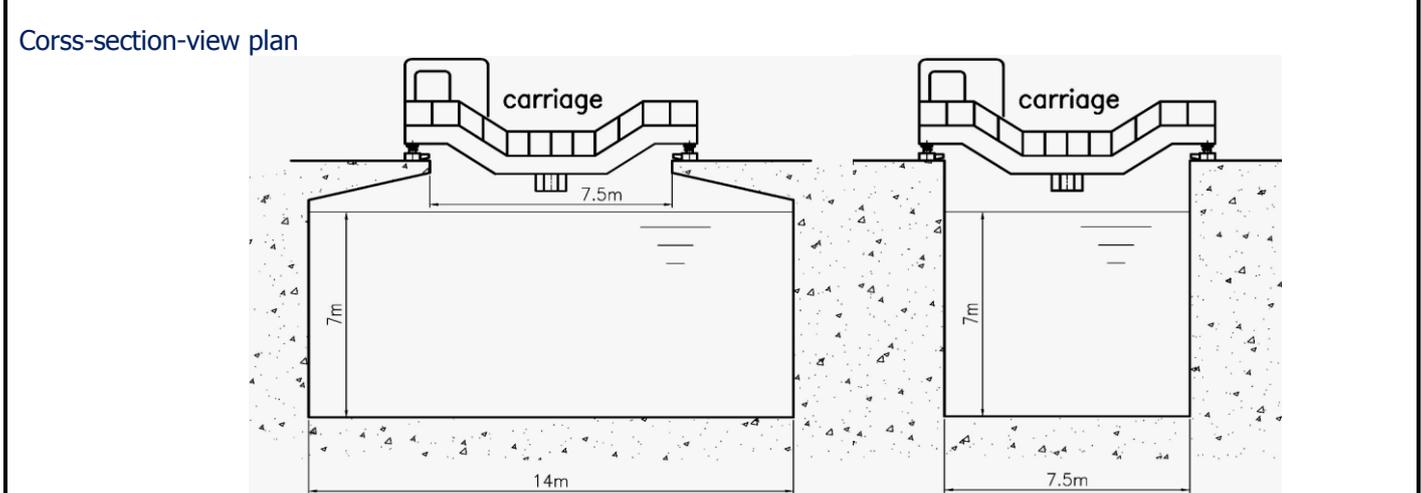
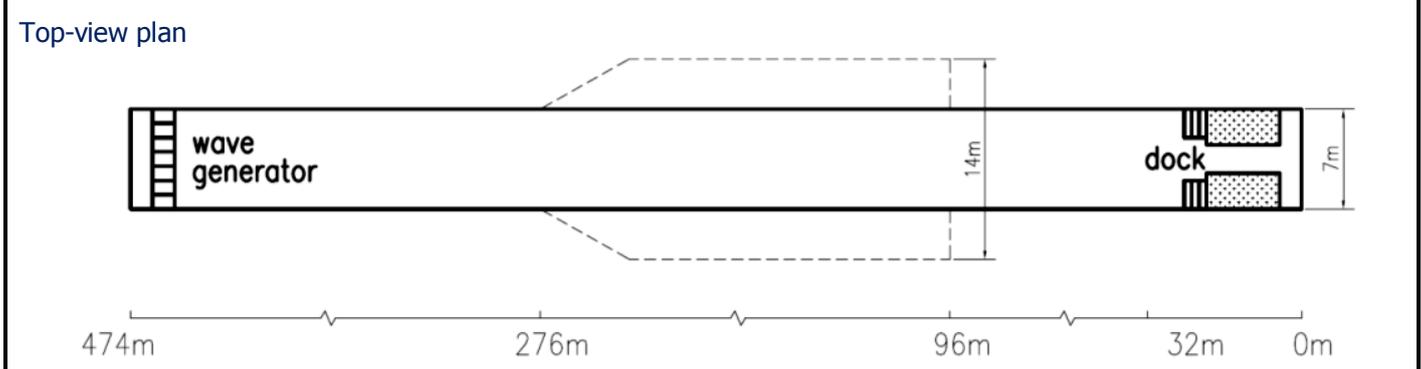
Name of organization China Ship Scientific Research Center (CSSRC)	Year of information updating 2017
Year established 1951	Year of joining the ITTC 1978
Address No.222 East Shanshui Road, Wuxi, Jiangsu 214082, P.R.China	Status in the ITTC AC member
Contact details Tel: +86 510 8555 8639 Fax: +86 510 8555 8103 Email: info@cssrc.com.cn	Website http://www.cssrc.com/

Type of facility #1 Towing Tank	Year constructed/Latest upgraded 1965/1999
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Name of facility #1-1 Deep Water Towing Tank	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)
474m (length)×7.5m/14m (width)×7m (depth)

Drawings of facility



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

1# Carriage: 0.1-20m/s; driven by DC motors with 4×75kW
3# Carriage: 0.1-15m/s; driven by DC motors with 4×40kW

Maximum ship model length: 10m

Wave generators: flap-type wave maker of 18 segments at one end of tank;
Regular waves, maximum wave height 400mm; wave period 0.5-5s;
Irregular waves, maximum significant wave height 300mm.

Dynamometers for resistance test: R63, 400N
Dynamometers for propulsion test: R25, R31, R45
Dynamometers for open water test: H29, H32, H49, R65, H160
Dynamometers for POD/Azimuth thruster: H101; CSSRC-Type#1, 100N/4Nm; CSSRC-Type#2, 200N/10Nm
Series of 6-component load cells for POD unit: maximum 200N/25Nm

Applications(Tests performed)

Commercial service for ship model tests in calm water and waves, mainly for

Resistance;

Open water performance of propeller;

Self-propulsion;

Wake survey;

Streamline visualization with painting or tufts;

Free surface phenomenon;

Added resistance in waves, and

Propulsion in waves;

Wave loadings.

By the end of 2016, there have been more than 2500 ship models tested in this towing tank.

Published description (Publications on this facility)

None