

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
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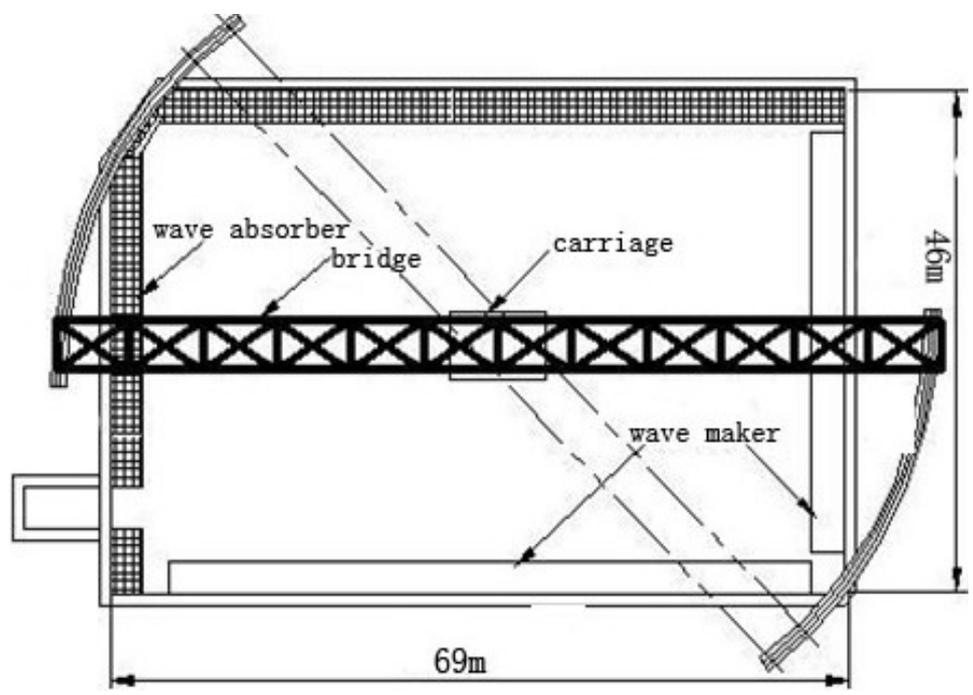
Type of facility #5 Wave Basin	Year constructed/Latest upgraded 1970/2006
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Name of facility #5-1 Seakeeping Basin	Location (if different from the above address)
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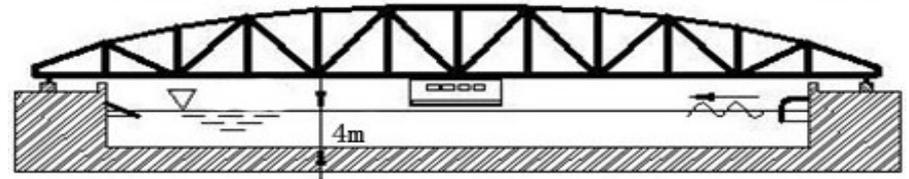
Main characteristics (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top)
69m (length) × 46m (width) × 4m (depth)

Drawings of facility

Top-view plan



Corss-section-view plan



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

Wave generators: flap-type wave maker of 188 segments mounted along the adjacent short and long sides of tank;
 Beach: cement gratings on parabolic arc of 7m length, mounted along the opposite sides of wave generators;
 Regular waves: maximum wave height 500mm; wave period 0.5-5s;
 Irregular waves: maximum significant wave height 400mm.

Current generators: local current, maximum current velocity 0.35m/s

Wind makers: one layer fans, maximum wind speed 5m/s

Bridge: 78m spanned,
 Carriage: maximum ±4m/s;
 Maximum ship model length: 5m
 Wave headings: 0-180 degrees
 Motion measuring: 6 DOF optical tracking system

Applications(Tests performed)

Commercial service for ship model tests in waves as well as in calm water, mainly for
Motion Response of ships and ocean engineering structures in waves,
Wave loadings,
Added Resistance in waves,
Green water and sloshing,
Operation performance of ocean energy conversion apparatus, and
Free running model test for ship maneuverability in calm water and in waves.

Published description (Publications on this facility)

None