

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 #3 Cavitation tunnel	Year constructed/Latest upgraded 2001/2017	
Name of facility #3-2 Great Cavitation Tunnel	Location (if different from the above address)	
Main characteristics (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top) Test section: 10.5m (length)×2.2m (width)×2.0m (depth)		
Drawings of facility Side-view plan		
Detailed characteristics (carriages, wave/current/wind generators, instrumentations, etc.)		
<p>Test section: water speed, 1~15m/s; pressure: 30kPa~350kPa</p> <p>Dynamometer for screw propeller: R51-01s, 1200N & 60Nm; R51-01, 2000N & 120Nm;</p> <p>Dynamometer for POD/Azimuth: H101, 600N & 30Nm</p> <p>Series of 6-component load cells for POD unit: maximum, 800N & 50Nm</p> <p>PIV system: TSI, 380mJ/pulse; measurement area, 300mm×250mm;</p> <p>High-speed camera: 10k frames per second;</p> <p>Pressure sensor: KYOWA-PGMC-A, 200kPa; 505AG, 200kPa; PCB HTM;</p> <p>Hydrophones: B&K 8103; B&K 8105</p>		
Applications (Tests performed)		
<p>Commercial service for ship model tests, mainly for</p> <ul style="list-style-type: none"> Cavitation survey; Pressure fluctuation; Hydrodynamic performance of propeller behind ship; Flow visualization; Flow field; Hydro acoustics. 		
Published description (Publications on this facility)		
None		