Name of organization Krylov State Research Centre		Year of information updating 2016
Year established 1894		Year of joining the ITTC 1955
Address 196158 St. Petersburg, Russia, 44, Moskovskoye shosse.		Status in the ITTC member organization
Contact details (phone, fax, e-mail) <i>phone: +7 (812) 415-49-41</i> <i>fax: +7 (812) 415-49-41</i> <i>e-mail: 10_otd@ksrc.ru</i>		Website www.krylov-center.ru
Type of facility Cavitation tunnel	Year constructer 1959	ed/upgraded
Name of facility High-Speed Cavitation Tunnel	Location –	
Main characteristics (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top) Length of test section – 4 m, Diameter of test section – 1.2 m; for simulators: full mission		
Drawings of facility		
1 - the impeller electric motor; 2 - impeller; 3 - diffuser; 4 - test section; 5 - the confuser; 6, 7 - means of equalization of a flow; 8 - dump tank.		
Detailed characteristics (carriages, wave/current/wind generators, instrumentations, etc.) Instrumentations: Three-components a propeller dynamometer; Dynamometer for a dual-purpose nozzle; Propeller hydraulic drive.		
Water flow velocity in test section: 1 ÷ 3	0 m/s;	
Propeller speed:±50Max. diameter of tested propellers:0.45	±50 1/s; 0.45 m;	
Max. diameter of tested model: 0.4 m	liameter of tested model: 0.4 m;	
Operating pressure in test section: (-0.9÷1.8)·10 ^e Pa;		
Minimum cavitation index: 0.1;		

Applications (Tests performed)

- 1. Investigations into the influence induced by cavitation of hull, rudders, fins & propulsive units on hydrodynamic (positional) characteristics of models.
- 2. Determination of performance curves on models of propellers and waterjets in open water.
- *3. Investigations into the influence induced by cavitation of foil system's elements on hydrodynamic characteristics of these systems.*
- 4. Tests of exhaust gas systems in submersibles under supercavitation (natural and artificial).

Published description (Publications on this facility)