

Name of organization <i>Krylov State Research Centre</i>		Year of information updating <i>2016</i>
Year established <i>1894</i>		Year of joining the ITTC <i>1955</i>
Address <i>196158 St. Petersburg, Russia, 44, Moskovskoye shosse.</i>		Status in the ITTC <i>member organization</i>
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 <i>www.krylov-center.ru</i>
Type of facility <i>Cavitation tunnel</i>	Year constructed/upgraded <i>1961</i>	
Name of facility <i>Cavitation Tunnel for Special Propulsors</i>	Location —	
Main characteristics (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top) <i>Length of test section – 0.8 m, Diameter of test section – 0.4 m, for simulators: full mission</i>		
Drawings of facility		
<p>1 - case; 2 - an impeller; 3 - the impeller electric motor; 4 - models of propellers; 5 - shafts of models of propellers; 6 - test section; 7 - electric motors of models of propellers; 8 - vacuum pumps; 9 - the compressor; 10 - trunk; 11 - differential pressure converters; 12 - detectors of revolutions; 13 - dynamometers; 14 - the acoustic box; 15 - hydrophone; 16 - centrifugal pump; 17 - the filter; 18 - dump tank.</p>		
Detailed characteristics (carriages, wave/current/wind generators, instrumentations, etc.)		
Instrumentations: <i>2 Three-components a propeller dynamometer;</i> <i>Dynamometer for a dual-purpose nozzle;</i> <i>Acoustic box.</i>		
Water flow velocity in test section: <i>0.3 ÷ 10 m/s;</i>		
Propellers speed: <i>±50 1/s;</i>		
Max diameter of tested propellers: <i>0.215 m;</i>		
Minimum cavitation index: <i>0.5;</i>		

Applications (Tests performed)

1. *Tests of single propellers.*
2. *Tests of ducted propellers & waterjet units.*
3. *Tests of contra-rotating propellers.*
4. *Tests of contra-rotating propellers in cylinder pipes and ducts.*
5. *Quasi-acoustic tests of single propellers, contra-rotating propellers and waterjets.*
6. *Acoustic tests of propellers and waterjets.*

Published description (Publications on this facility)

—