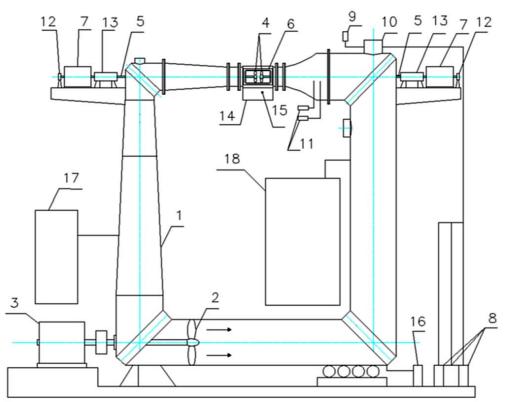
Name of organization Krylov State Research Centre	Year of information updating 2016
Year established 1894	Year of joining the ITTC 1955
Address 196158 St. Petersburg, Russia, 44, Moskovskoye shosse.	Status in the ITTC member organization
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Type of facility Cavitation tunnel	Year constructed/upgraded 1961
Name of facility	Location —
Cavitation Tunnel for Special Propalsors	

Main characteristics (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top) Length of test section – 0.8 m, Diameter of test section – 0.4 m, for simulators: full mission

Drawings of facility



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.

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

Instrumentations: 2 Three-components a propeller dynamometer;

Dynamometer for a dual-purpose nozzle;

Acoustic box.

Water flow velocity in test section: $0.3 \div 10 \text{ m/s}$;

Propellers speed: ±50 1/s; Max diameter of tested propellers: 0.215 m;

Minimum cavitation index: 0.5;

Applications (Tests performed)

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

Published description (Publications on this facility)