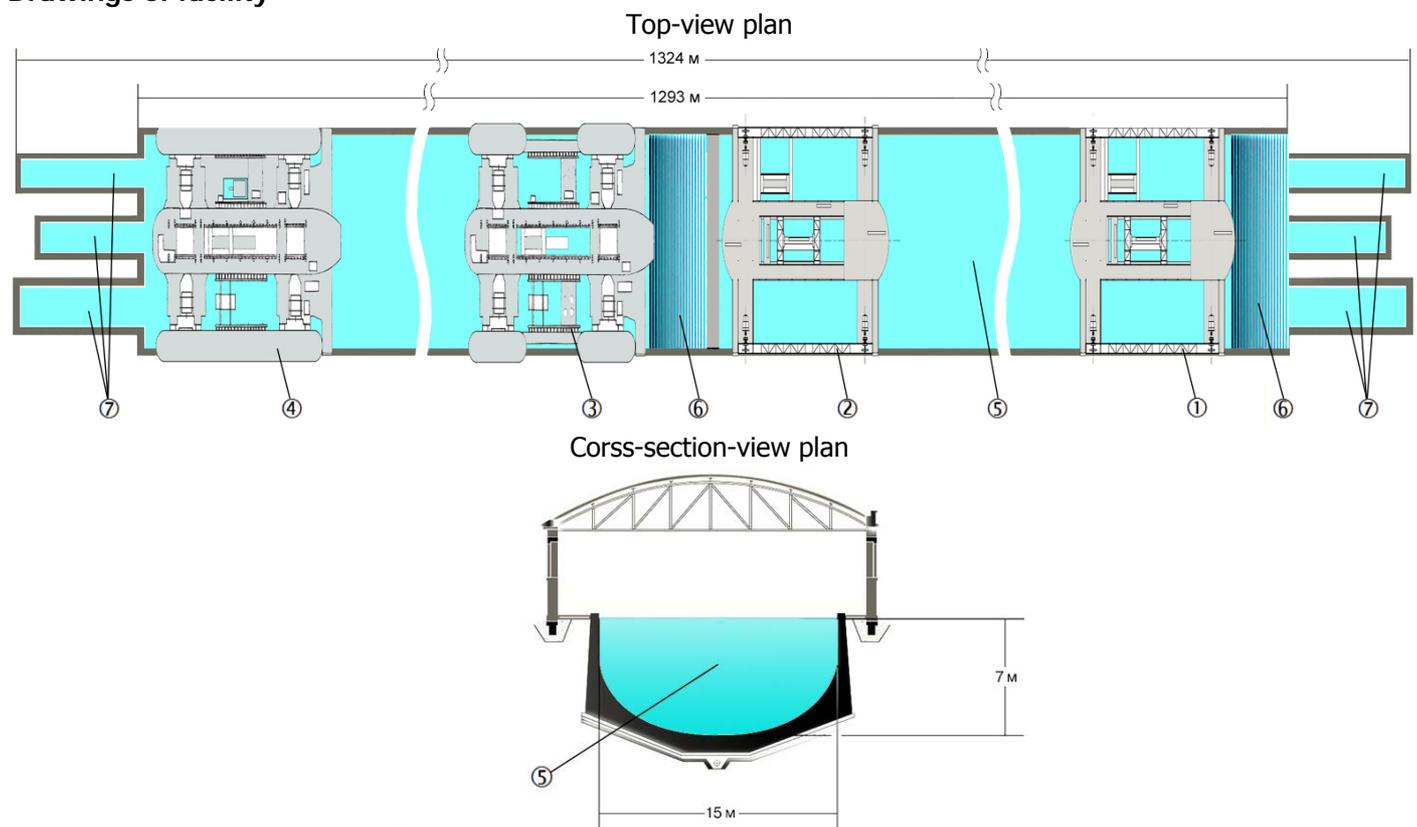


Name of organization <i>Krylov State Research Centre</i>	Year of information updating <i>2016</i>
Year established <i>1894</i>	Year of joining the ITTC <i>1955</i>
Address <i>196158 St. Petersburg, Russia, 44, Moskovskoye shosse.</i>	Status in the ITTC <i>member organization</i>
Contact details (phone, 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>Towing tank</i>	Year constructed/upgraded <i>1950/1968</i>
Name of facility <i>Deep water model basin</i>	Location —

Main characteristics (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top)
Length – 1324 m (consist from 2 parts, a length of working zones of each part ~ 600 m and 620 m),
Width – 15 m, Depth – 7 m;
for simulators: full mission

Drawings of facility



1- manned carriage №1; 2- manned carriage №2; 3- manned carriage №3; 4- manned carriage №4; 5 - the basin channel; 6 - wave absorbers; 7 - docks;

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

Description of carriage: manned carriage (№1, №2, №3 and №4);
Maximum carriage velocity: manned carriage №1 – 6 m/s;
manned carriage №2 – 18 m/s;
manned carriage №3 – 20 m/s;
manned carriage №4 – 18 m/s;

The sizes of tested models: Length (surface models) 1.2 ÷ 10 m.
Length (underwater models) 2.5 ÷ 8 m.
Diameter of propellers 0.1 ÷ 0.35 m
Diameter steerable propellers 0.1 ÷ 0.35 m

The wave generator is not present

Applications (Tests performed)

1. *Towing & self-propulsion model tests for various types of surface ships & vessels.*
2. *Captive model tests of towed and self-propelled models of submarines and underwater vehicles.*
3. *Hydrodynamic model tests of open-water propellers and propulsion pods.*
4. *Survey of flow velocity distributions in propeller disk, in way of propeller arms and other points of model hulls.*
5. *Visualization of flow around model hulls using paint techniques for proper alignment of hull appendages with flow.*
6. *Verification and calibration of hydrodynamic velocity sensor of all types in the speed range of 0.5 to 7 m/s (ISO 3455)*

Published description (Publications on this facility)

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