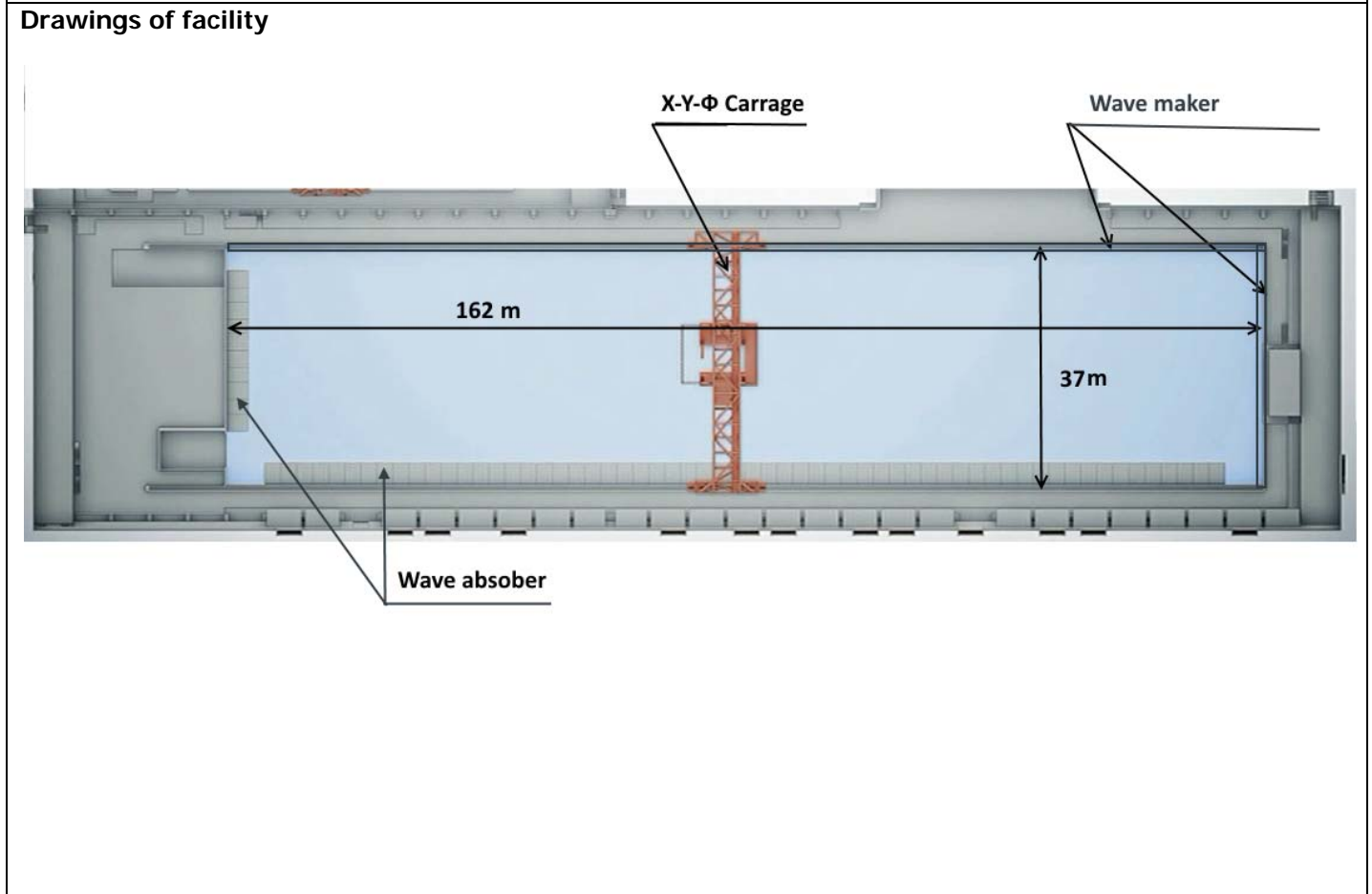


Name of organization Krylov State Research Centre	Year of information updating 2016
Year established 1894	Year of joining the ITTC 1955
Address 44, Moskovskoe shosse, St. Petersburg, 196158, Russian Federation	Status in the ITTC <i>member organization</i>
Contact details (phone, fax, e-mail) Phone: +7 (812) 386-69-37 Fax: +7 (812) 386-69-43 E-mail: 9_otd@ksrc.ru	Website http://www.krylov-center.ru/

Type of facility Seakeeping/maneuvering model basin	Year constructed/upgraded 2016
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Name of facility Large Scale Seakeeping/maneuvering model basin	Location (if different from the above address) Same
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Main characteristics (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top)
Basin dimensions: 162 x 37 x 5 m (LxWxH)



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

BASIN: (162 x 37 x 5 m);

CARRIAGES: electrical moving X, Y, ϕ carriages with thyristor drive system. Automotive speed control in ranges
X – 6,0 m/s (acceleration 0,8g)
Y – 4,0 m/s
The carriage can move with the model or follows the model's movement in the horizontal plane.

WAVE GENERATORS: segmented wave generators consisting of hinged flaps. Each flap is controlled separately by a driving motor and has a width of 60 cm. The capacity of the wave generator is up to a significant wave height of 0.45 m at a peak period of 2 seconds

WAVE ABSORBERS: Beach type wave absorbers on the opposite side of wave generators. Along long side wave absorbers can be removed under water.

WIND: Wind can be simulated by an adjustable platform with electrical fans

MODELS: Length of models up to 12 m.

INSTRUMENTATIONS: 6x dimensional optical trackers, single and multi-axis dynamometers of different types, wave height probes, single and multi-axis accelerometers, pressure sensors, digital cameras (including underwater).

Applications (Tests to be performed)

- ship's resistance in calm water and waves;
- Seakeeping tests in waves and wind from any directional;
- measurement of global / local wave loads in ship's hull (including slamming one);
- Oscillation (PMM) and rotating arm tests in calm water and waves with a restrained model to determine hydrodynamic coefficients;
- measurement of drift forces
- Captive or free sailing manoeuvring tests in calm water and waves
- Installation and sea transport tests of offshore constructions
- Tests on moored or fixed objects to determine motions and loads due to waves and wind

Published description (Publications on this facility)

http://krylov-center.ru/eng/experimental_facilities/