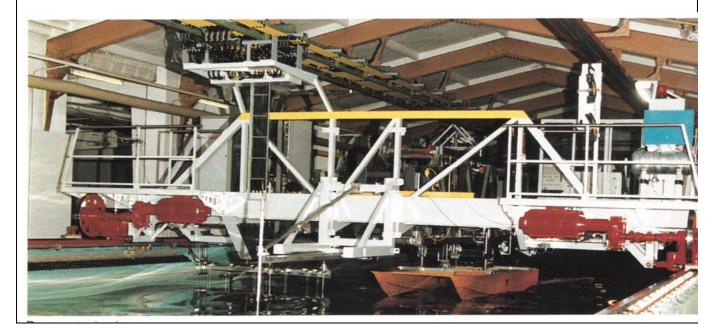
Name of organization	Year of information updating
Technische Universität Berlin	2017
Naval Architecture & Ocean Engineering	
Chair of Dynamics of Maritime Systems	
Year established	Year of joining the ITTC
1879	2013
Address	Status in the ITTC
TU Berlin	Member
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E-mail: <u>cura@tu-berlin.de</u>	
Type of facility	Year constructed/upgraded
Towing Tank	1903 / 1946 / 1993
Name of facility	Location
Large Towing Tank	Müller-Breslau-Str. 17, 10623 Berlin

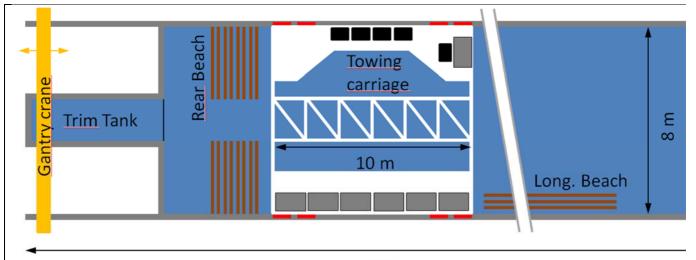
Main characteristics

The Large Towing Tank is used for testing of ship models up to 8 m in length and 2 m in breadth, twin hull ships in particular, high speed vessels and other maritime and ocean engineering systems.

The fast towing carriage with a maximum speed of 12.5 m/s has a wide open space of 10 m in length under the test bridge. A wave absorber is installed at the far end and another at one of the long sides of the basin, mostly used for calm waves generated by models during high speed testing.

Drawings of facility





250 m

Detailed characteristics

Basin

Length 250 m Width 8 m Depth 4.8 m

Towing Carriage

Built 1993 by Kempf & Remmers

Speed 12.5 m/s Stability 1.0 mm/s

Measurement devices

Towing tank open water propeller dynamometer H29 (Kempf & Remmers): $T_{max} = 400 \text{ N}$, $Q_{max} = 15 \text{ Nm}$, $n = 50s^{-1}$ Several ship model self propulsion propeller dynamometers by Kempf & Remmers (R31, R25, R33 & R69): T_{max} between 100-600 N, and Q_{max} between 4-20 Nm

Resistance dynamometer R74 (Kempf & Remmers) with optional friction deduction

Model clamp R75 (Kempf & Remmers)

Guiding arm R57 (Kempf & Remmers)

All measurement devices can also be installed in the other experimental facilities: UT2 and shallow water basin

Applications

Large Towing Tank is used for testing ship models up to 8 m in length and 2 m in breadth, twin hull ships, high speed vessels and other maritime and ocean engineering systems in calm water.

Typical tests are resistance & propulsion tests, open water propeller tests, investigation offshore structures.

Published description