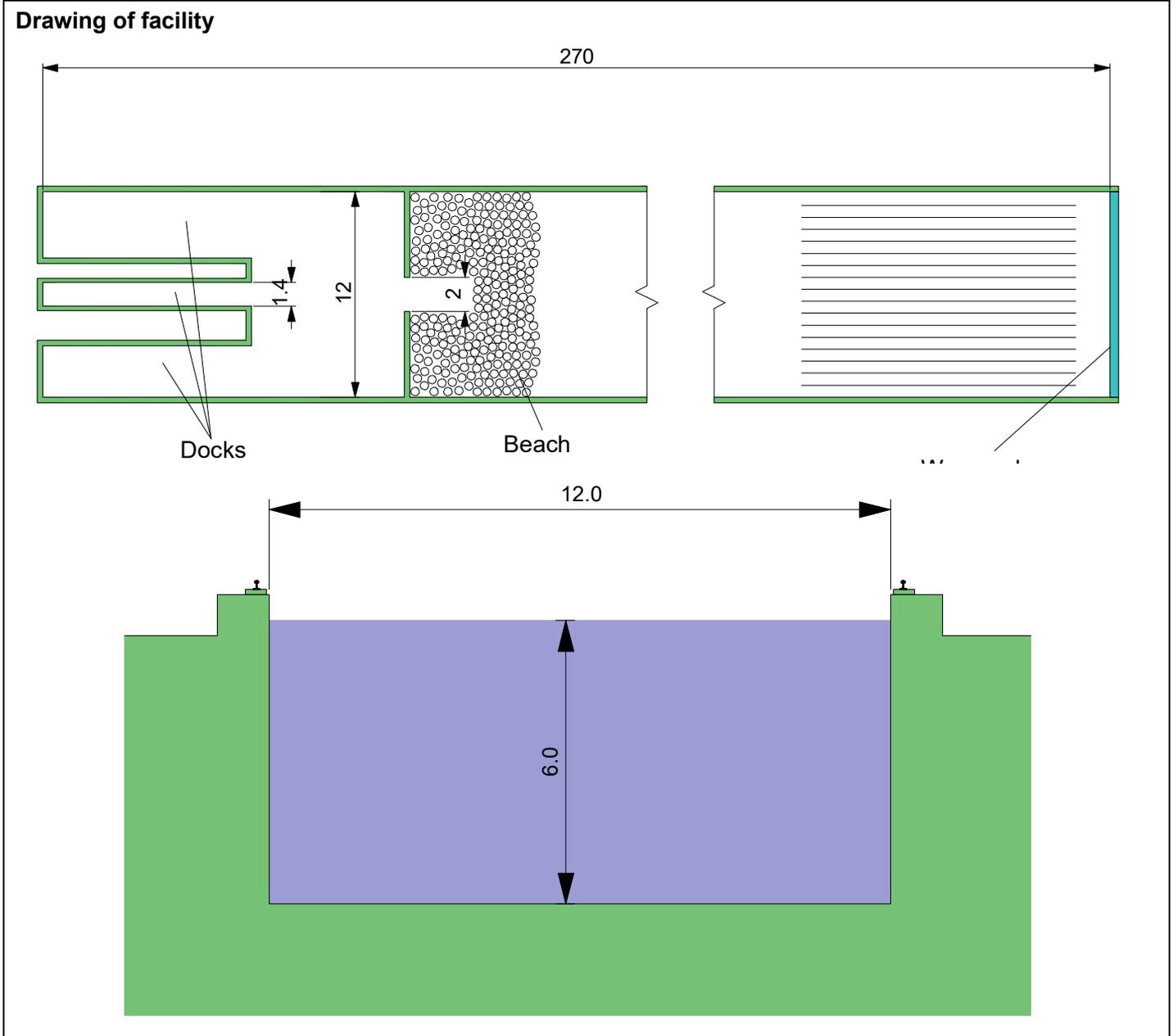


<b>Name of organization</b> Centrum Techniki Okrętowej S.A. (CTO S.A.)	<b>Year of information updating</b> 2019
<b>Year established</b> 1971	<b>Year of joining the ITTC</b> 1973
<b>Address</b> 65 Szczecińska St., 80-392 Gdańsk, Poland	<b>Status in the ITTC</b> Advisory Council member
<b>Contact details</b> Tel. +48 58 511 63 17 Fax. +48 58 553 16 43 modbas@cto.gda.pl	<b>Website</b> www.cto.gda.pl

<b>Type of facility</b> Towing tank	<b>Year constructed/upgraded</b> 1975
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<b>Name of facility</b> Deep Water Towing Tank (Towing Tank No. 1)	<b>Location</b> (if different from the above address)
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**Main characteristics**  
Length: 270 m  
Width: 12 m  
Depth: 6 m  
Max. carriage speed: 12m/s



### **Detailed characteristics**

Tank carriage: maximum speed 12m/s; optionally equipped with Planar Motion Mechanism (PMM).

Force measurements: with computer-controlled vertical force compensation.

Model size: up to 2m width.

Wavemaker: flap-type, computer-controlled; irregular waves up to 0.35 m significant height.

Wave damping: rock beach.

### **Applications**

- resistance and self-propulsion tests for deep water conditions;
- wake measurements (3D, 5-hole pressure probe);
- flow visualization tests (paint, tufts with underwater cameras, bubble sweep-down tests)
- propeller open water tests;
- seakeeping tests in regular and irregular long-crested waves (motions, accelerations, slamming pressure pulses, green water phenomena); added resistance/speed loss in waves;
- roll-decay tests;
- captive model tests (with use of Planar Motion Mechanism (PMM));
- non-standard tests (river turbines, paint coatings, fish farms, environmental tests, model/full scale tests with dedicated measuring stands designed individually for specific projects, etc.).

### **Published descriptions**

[www.cto.gda.pl](http://www.cto.gda.pl)