

Name of organization Centrum Techniki Okrętowej S.A. (CTO S.A.)		Year of information updating 2019
Year established 1971		Year of joining the ITTC 1973
Address 65 Szczecińska St., 80-392 Gdańsk, Poland		Status in the ITTC Advisory Council member
Contact details Tel. +48 58 511 63 17 Fax. +48 58 553 16 43 modbas@cto.gda.pl		Website www.cto.gda.pl
Type of facility Test station for manoeuvrability tests	Year constructed/upgraded 1971	
Name of facility Test station for manoeuvrability tests	Location (if different from the above address) Lake Wdzydze	
Main characteristics Test station located by the lake; the total area: approx. 1.0 km ² , minimum width: approx. 800m		

Drawing of facility



Detailed characteristics

- tests realised using large, free-sailing, remotely-controlled models;
- tracking of model trajectory and heading;
- recording of required quantities: rudder deflections, rudder forces, propeller RPM, thrust, torque, heel angle, etc.
- possible modelling of tunnel thrusters;
- video recordings of manoeuvres by means of the Unmanned Aerial Vehicle (UAV)

Applications

- manoeuvrability model tests acc. to IMO Standards (turning, zig-zag, spiral, pull-out, stopping (inertia and crash-stop) tests);
 - non-standard tests (e.g. modified zig-zag tests, turning tests at zero speed (with side-thrusters modelled), astern tests, etc.), incl. non-standard manoeuvres defined in accordance with the Customer's requests;
- All tests realised with use of a programmable autopilot system.

Published descriptions

www.cto.gda.pl