

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
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Type of facility Wind tunnel	Year constructed/upgraded 2016	
Name of facility Wind Tunnel No. 2	Location (if different from the above address)	
Main characteristics Measurement chamber length: 7000 mm Measurement chamber cross-section: width 2150 mm, height 1420mm Max. velocity: 25m/s		
Drawing of facility		
<p>The drawing consists of two schematic diagrams of a wind tunnel. The top diagram shows a side view of the tunnel with a measurement chamber of length 7000 mm and height 1420 mm. The bottom diagram shows a side view of the tunnel with a measurement chamber of length 7000 mm and width 2150 mm. Both diagrams include a fan section at the end, labeled 'Fans'.</p>		

Detailed characteristics

Open-circuit, low-speed wind tunnel.

Drive: 6 fans at the outlet.

Turbulence intensity: 0.4%.

Wind profile modelling with use of obstacles at the inlet.

Detailed flow measurements: hot wire anemometer.

Flow visualizations with a smoke generator; high speed video cameras.

Applications

- measurements of aerodynamic loads on ships, flying objects etc. (6 components);
- flow visualization tests: smoke, tufts (with use of high speed video cameras);
- detailed flow measurements (e.g. ship superstructure wake in the helideck region);
- environmental tests (wind exposure);
- calibrations of a measurement equipment.

Published descriptions

www.cto.gda.pl