

Detailed characteristics

Measurement chamber cross-section 800mm x 800mm; cavitation tests carried out with the use of 3D flow simulator ("dummy body") and mesh of adjustable density for modelling axial flow velocity distribution.

Velocity measurements: Laser-Doppler Anemometer.

Cavitation analysis methods:

- stroboscopic light;
- high speed camera Photron;
- hydrophones hydroacoustic signature Reson.

Applications

- cavitation tests (incl. cavitation margins) propellers, tunnel thrusters, renewable energy devices, hydrofoils; measurements of pressure pulses;
- erosion tests;
- detailed flow measurements (e.g. vortex structures generated by foils);
- low pressure tests;
- hydroacoustic tests;
- calibration of a measuring equipment (e.g. pressure probes for 3D wake measurements).

Published descriptions

www.cto.gda.pl