

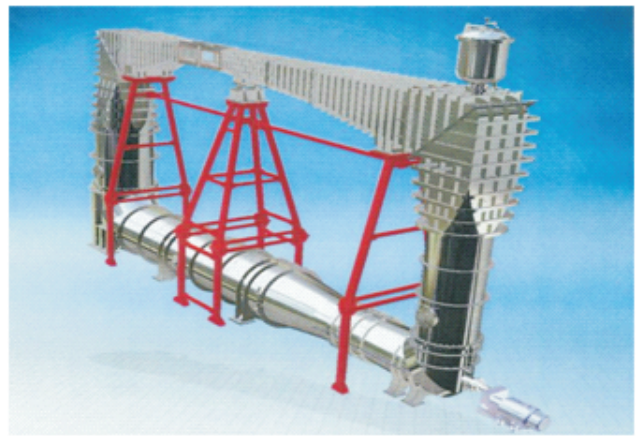
Concept of the Research Centre

The **Research Centre** is a complex of modern research facilities fully outfitted with measuring equipment, enabling to carry out the basic scientific researches for cognitive purposes, applied research and development tasks for the various branches of maritime and land engineering industries.

The Centre is the independent research background for the maritime industry, performing also research tasks for the other industrial branches, like: construction, chemical and mechanical industries.

Research facilities included in the Research Centre:

- **Deep water towing tank** – a basic research device of experimental ships' hydromechanics
- **Shallow water towing tank** – a research facility to carry out the model test of ships and other objects used in shipping in shallow water



Concept of the Research Centre

- **Tank for test of sea keeping qualities of ships and ocean objects** – used in the design of oil/gas drilling platforms and vessels for operation of the platforms
- **Cavitation tunnel** – used for the basic tests of cavitation and accompanying physical effects
- **Workstation for manoeuvring tests** with models used in towing tanks
- **Full - sized Subsonic Aerodynamic Tunnel** – enables to gain knowledge on aerodynamics of marine and land objects: stationary, mobile and flying objects in environment of real operation based on experiments carried out with use of model or prototype
- **Environmental Laboratories Division** – for carrying out acoustic, fire and fire resistance tests, toxicity and smoke generating ability, tests of physical and mechanical properties, corrosion resistance of metals and metal alloys, properties of paints and metal samples
- **Hydroacoustic Laboratory** – for the calibration of hydro-acoustic measurement devices (hydrophones, pressure transducers)

