Name of organization Research Institute of Medium & Small Shipbuilding (RIMS)	**Year of information updating** 2022
Year established 1997	**Year of joining the ITTC** 2022
Address 38-6, Noksansandan 232-ro, Gangseo-gu, Busan, 46757 Korea	**Status in the ITTC** Member
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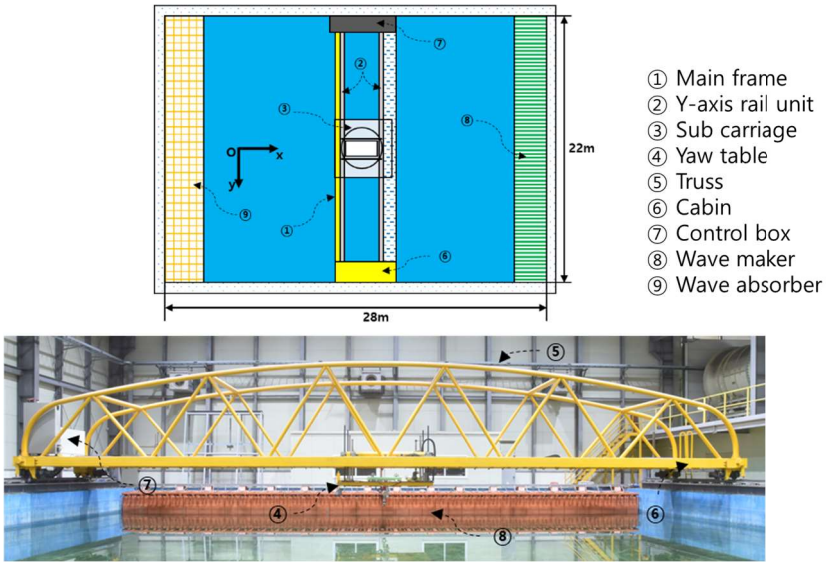
Type of facility Ocean Basin	**Year constructed/upgraded** 2009
Name of facility Ocean Engineering Basin	**Location**

Main characteristics

Length x Width x Depth = 28 x 22 x 3 m

Drawings of facility



Detailed characteristics

- Towing carriage
  - Driven by AC servo motors (one for each wheel)
  - Max. carriage speed: 1.5 m/s
- Wave generator
  - 1.0m x 8 segments piston type, server motor driven
  - 0.5m x 40 segments piston type, servo motor driven
  - Wave height: $H \leq 0.3$m
  - Wavelength of regular wave: $\lambda \leq 3.0$ m
  - Range of generated wave periods: $0.5\ s \leq T \leq 30\ s$
  - Type of generated irregular waves: Neumann, Pierson-Moskowitz, ISSC 1964, ISSC 1976, ITTC 1978, ITTC 1984, Bretschneider-Mitsuyasu, JONSWAP, Ochi-Hubble, and User Defined Spectrum
- Current generator(2ea, portable)
  - Axial pump type, motor speed control
  - Max. current speed: 0.6 m/s
  - Test section: L x H = 2 x 0.3 m
- Wind generator(2ea, portable
  - Axial fan type, motor speed control

- Max. wind speed: 10 m/s
- Air volume: 400m³/min / set at 25mmAq

• Other facility
- Front beach for wave absorber (permeable panel type)
- Model workshop: Urethane form ship model 12(L) x 6.5 x 3.5(H) m

• Instrumentation
- Resistance dynamometers
- Motion measurement devices: Inertial Measurement Unit(IMU), Motion Capture System (G4, High-speed camera), Mechanical motion device and potentiometer
- Tension gauge

• Max. model size: 2 m

Applications

• Offshore model tests
- Motion test (Captive or Free) in deep and shallow water
- Mooring test in deep and shallow water

• Ship model tests
- Resistance test in calm and in waves
- Captive model test (Motion test) in deep and shallow water
- Seakeeping test

• Other tests
- Test for underwater vehicle
- Test for wave energy convertor

Published description