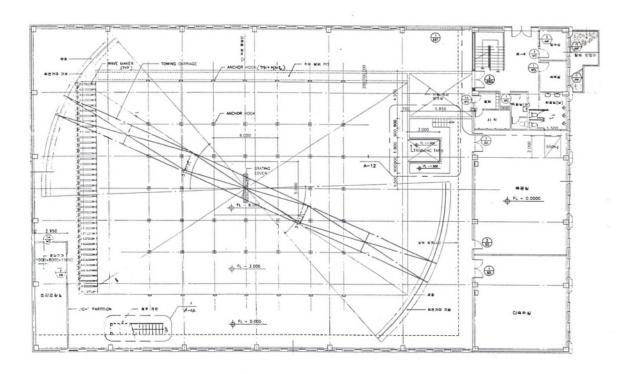
Name of organization School of Naval Architecture and Ocean Engineering, University of Ulsan	Year of information updating 2023
Year established 1973	Year of joining the ITTC 1999
Address (44610) 41-304, School of Naval Architecture and Ocean Engineering, 93, Daehak-ro, Nam-gu, Ulsan, Republic of Korea	Status in the ITTC Member
Contact details (phone, fax, e-mail) (Phone) +82-52-259-2677 (faculty office) (Fax) +82-52-259-2154 (faculty office) (E-mail) youngjunyou@ulsan.ac.kr (Prof. You, Youngjun)	Website naoe.ulsan.ac.kr

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Type of facility	Year constructed/upgraded	
Offshore Basin	1998/T.B.D	
Name of facility	Location (if different from the above address)	
Ocean Engineering Wide Tank (OEWT)	N/A	

Main characteristics (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top) Overal Size (Length \times Width \times Depth): 30 [m] \times 20 [m] \times 2.5 [m] Pit Size (Length \times Width \times Depth): 6 [m] \times 5 [m] \times 3 [m]

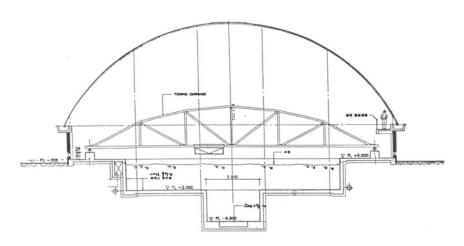
Drawings of facility

Top-view plan



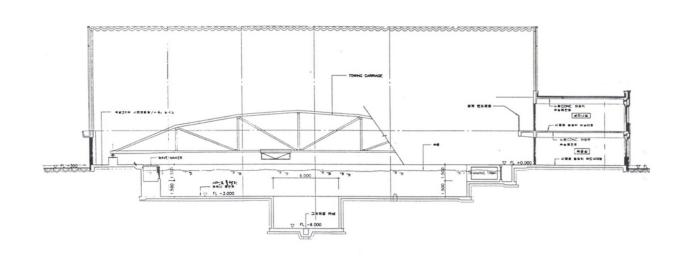
< First floor plan >

Cross-section-view plan



< Cross section drawing >

Longitudinal-section-view plan



< Longitudinal section drawing >

Detailed characteristics (carriages, wave/current/wind generators, instrumentations, etc.)

- Towing Carriage
- Driven by high power brushless servo-motor
- Maximum velocity limit (X, Y): 2 m/s
- Maximum acceleration limit (X, Y): 1 m/s²
- Wave generator
- Driven by an electric servo-motor via a belt
- $-0.5 \text{ m} \times 40 \text{ wave boards (flap type) fitted at short side (20 m)}$
- Wave height: 0.2m at 0.875Hz
- Range of generated wave period: 0.5 sec ≤ T ≤ 5 sec
- Regular wave generation: Sine wave (Parallel and Angled)
- Irregular wave generation: ISSC, JONSWAP, Scott, ITTC, Neumann, Pierson-Moskowitz, etc.
- 2D wave tank
- Piston type wave maker
- Dimension (Length \times Width \times Height): 35 [m] \times 0.5 [m] \times 0.5 [m]
- Measuring window (Width × Height × Thickness): 996 [mm] × 598 [mm] × 12 [mm]
- Dimension (Width \times Height \times Thickness): 594 [mm] \times 847 [mm] \times 60 [mm]

Applications (Tests performed)

- Ship damaged stability tests
- Added resistance tests
- Autonomous vessel tests
- Free running tests (incl. zigzag tests, 35° turning tests)
- Towing stability tests of ships and offshore structures
- Wave force measurement tests
- Motion measurement tests (floating offshore wind turbines, semi-submersible, spar, TLP, and (moored) ships)
- Tests of floating offshore structure installation
- Tests for guyed tower platforms
- Forced oscillation tests of spar buoys
- Floating offshore wind turbine tests
- Slamming tests
- Breakwater tests

Published description (Publications on this facility)

N/A