

Name of organization Norwegian University of Science and Technology - NTNU		Year of information updating 2024
Year established 1910		Year of joining the ITTC 2024
Address Paul Fjermstadsv. 59, Trondheim, Norway		Status in the ITTC
Contact details (phone, fax, e-mail) Sverre Steen, +47 93406429, sverre.steen@ntnu.no		Website https://www.ntnu.edu/imt/lab/cybernetics
Type of facility Small wave basin	Year constructed/upgraded 2000	
Name of facility MC-LAB	Location (if different from the above address)	
Main characteristics (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top) L x B x D = 40m x 6.45m x 1.5m		
Drawings of facility Top-view plan Corss-section-view plan		
Detailed characteristics (carriages, wave/current/wind generators, instrumentations, etc.) Main carriage: Max. speed 2 m/s, max acceleration 0.5 m/s ² Transverse module: speed 1 m/s, max acceleration 1 m/s ² Wavemaker: Single paddle with Active Wave Absorption Control System. Regular waves H<0.25 m, T=0.3-3 s. Irregular waves HS<0.15 m, T=0.6-1.5 s		

Applications (Tests performed)

The facility is especially suited for tests of motion control systems for marine vessels, due to the relatively small size and advanced instrumentation package. It is also suitable for more specialized hydrodynamic tests, mainly due to the advanced towing carriage, which has capability for precise movement of models in six degrees of freedom.

- Open water tests
- PMM tests

Published description (Publications on this facility)