

Name of organization SAMSUNG SHIP MODEL BASIN (SSMB)		Year of information updating 2015
Year established 1996		Year of joining the ITTC 1996
Address 217 MUNJI-RO, YUSEONG-GU, DAEJEON 34051, KOREA		Status in the ITTC AC Member
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Type of facility TOWING TANK	Year constructed/upgraded 1996	
Name of facility	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 = 400m x 14m x 7m		
Drawings of facility		
Top-view plan		
Corss-section-view plan		
Detailed characteristics (carriages, wave/current/wind generators, instrumentations, etc.)		
<ul style="list-style-type: none"> - Carriages: 2 carriages with Digital PID control Drive system and power: Linear induction motor driven Carriage No.1: 180kW x 4, Carriage No.2: 43kW x 4 Maximum carriage speed : 18 m/s for carriage No.1 (maximum acceleration 2 m/s²) 5 m/s for carriage No.2 (maximum acceleration 1 m/s²) - Sub-carriage: Circular motion test - Wave generator: 0.35m x 40 segments plunger type wave make with digital PID control Regular, long-crested and short-crested irregular wave Wave length 0.2~15m, maximum wave height 0.5m - Other facility: Frontal and side beach for wave absorber Model lifter for test preparation - Model size: Ship length 4~11m 		
Applications (Tests performed)		
<ul style="list-style-type: none"> - Powering: Calm water resistance test, Propeller open water test, Self propulsion test, Wave pattern analysis, Flow visualization, Local flow measurement - Seakeeping: Motions and speed loss test in waves, Green water and impact load test, Springing and whipping test, Parametric roll test - Maneuvering: PMM(Planar Motion Mechanism) test, Rudder open water test, Towing stability and load test, Free sailing test, Crabbing test 		
Published description (Publications on this facility)		