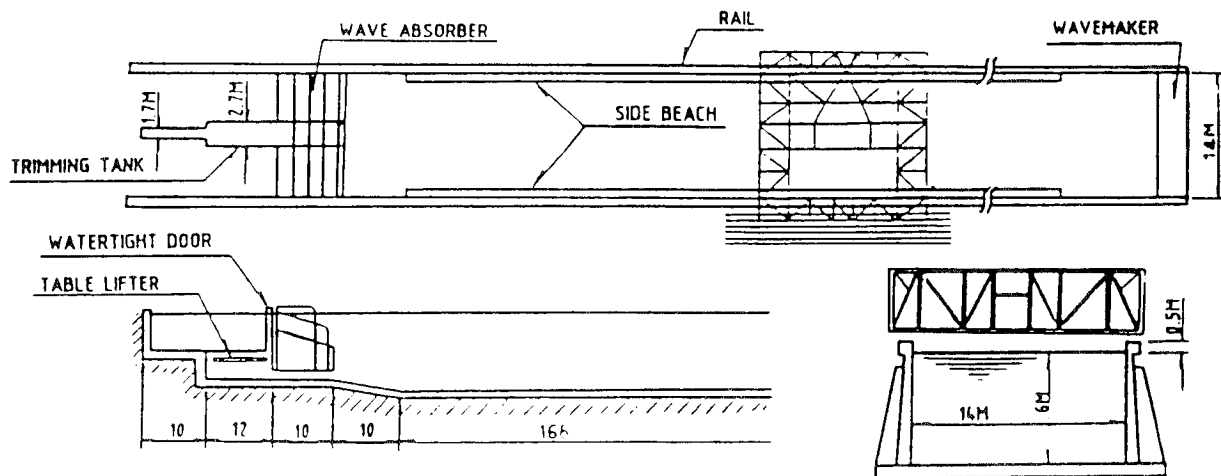


INTERNATIONAL TOWING TANK CONFERENCE CATALOGUE OF FACILITIES
T O W I N G T A N K

HYUNDAI MARITIME RESEARCH INSTITUTE (HMRI)
HYUNDAI HEAVY INDUSTRIES CO., LTD.
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KOREA

TOWING TANK (1984)



DESCRIPTION OF CARRIAGES : 1 manned, motor driven, digital & analog control
TYPE OF DRIVE SYSTEM AND TOTAL POWER : Ward-Leonard, 55 kw \times 8
MAXIMUM CARRIAGE SPEED : 7 m/s
OTHER CAPABILITIES : Horizontal PMM

WAVE GENERATION CAPABILITY : regular/irregular, wave length 0.5 ~ 20 m
max. wave height 0.5 m
WAVE TYPE AND WIDTH : single flap, 14 m
WAVE ABSORBER TYPE AND LENGTH : end beach type, 8.5 m (and side beach)
WAVE MEASUREMENT : servo and capacitance type

INSTRUMENTATION : minicomputer on carriage for data acquisition and on/off-line analysis
1-32 analog and 5 digital channels
up to 100 samples per second per channel
MODEL SIZE : ship model length 4 ~ 10 m
TEST PERFORMED : resistance & self-propulsion test in calm water and waves,
propeller open-water test,
3-D wake survey,
hydrodynamic forces on floating bodies,
wave induced motions and loads on ship and marine structures.