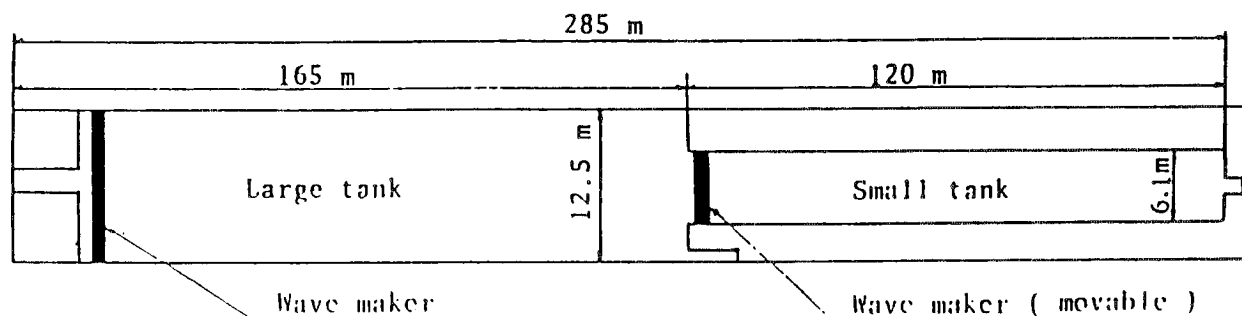


INTERNATIONAL TOWING TANK CONFERENCE CATALOGUE OF FACILITIES  
TOWING TANKS, SEAKEEPING AND MANOEUVRING BASINS

NAGASAKI EXPERIMENTAL TANK,  
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JAPAN

SMALL TOWING TANK (1943)



DESCRIPTION OF CARRIAGE: 1 manned, motor driven, digital control.  
TYPE OF DRIVE SYSTEM AND TOTAL POWER: Thyristor static Leonard system,  
15 kw x 4.  
MAXIMUM CARRIAGE SPEED: 4.5 m/s.

WAVE GENERATION CAPABILITY: regular; length 1 10 m, max. wave height 0.2 m.  
WAVEMAKER TYPE AND EXTENT: flap type, motor driven, 6.1 m wide.  
BEACH TYPE AND LENGTH: rugged panel on circular arc, 5 m.  
WAVE MEASUREMENT: electric resistance type probes on carriage and tank walls.

INSTRUMENTATION: minicomputer on carriage for data acquisition and on-line  
analysis. 16 analog and 6 digital channels, maximum  
sampling speed up to 100 kHz for analog channel.  
MODEL SIZE RANGE: ship length from 2 to 7 m ( standard 4.2 m ),  
max. propeller diameter 300 mm.  
MODEL TRACKING TECHNIQUES: propeller rpm adjusted by thyristor static Leonard  
system at propeller open-water and propulsion test.  
TESTS PERFORMED: (1) resistance and self-propulsion tests in calm water  
and regular waves  
(2) propeller open-water tests  
(3) flow measurements around ship  
(4) wake survey tests  
(5) flow visualization tests

PUBLISHED DESCRIPTION: Journal of S.N.A. of Japan, vol.96 (1955)  
Mitsubishi Juno Giho, vol.14, No.1 (1977)