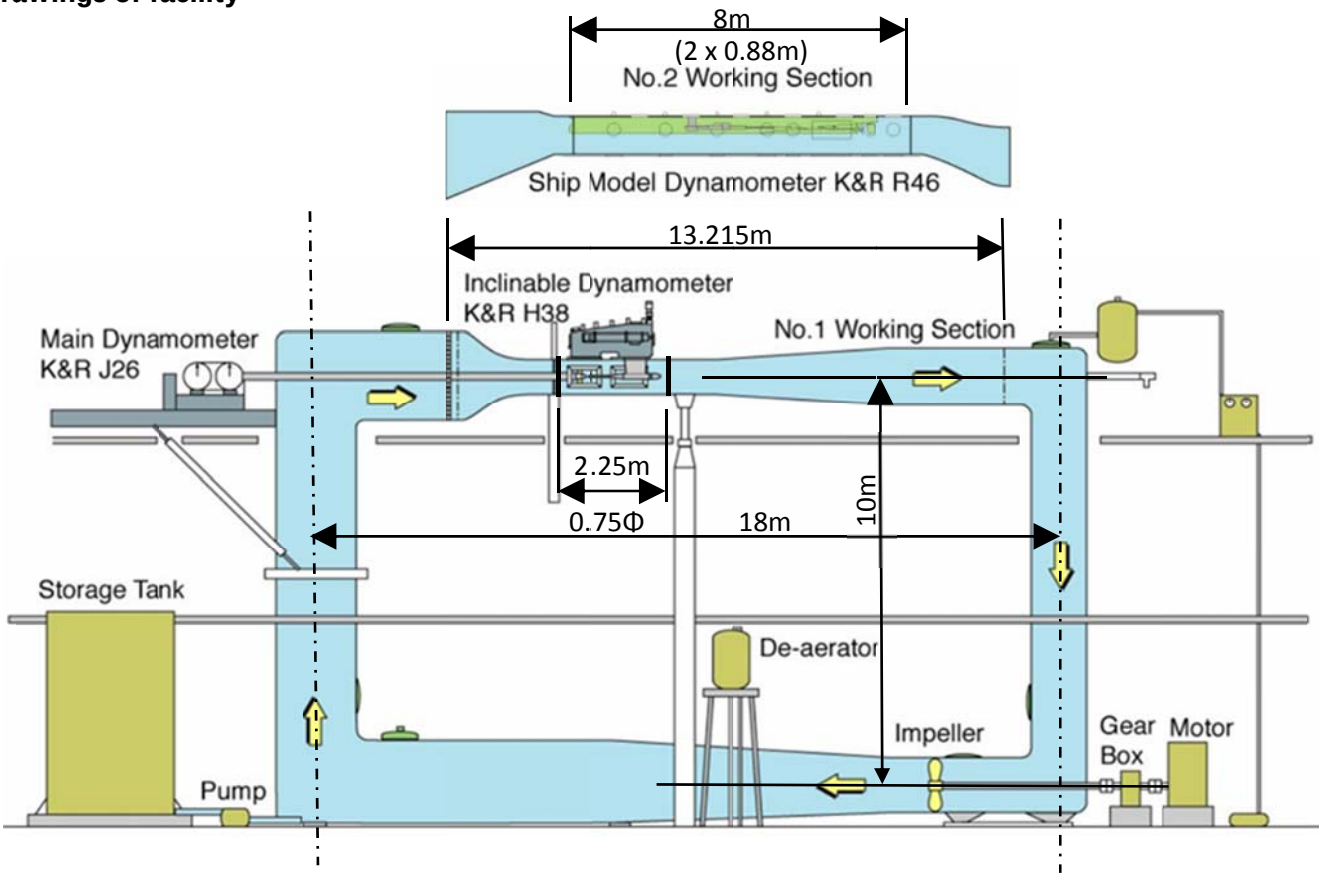
Name of organization National Maritime Research Institute	**Year of information updating** 2016
Year established 2001 (1916 established as the Ship Equipment Inspection Station)	**Year of joining the ITTC**
Address 6-38-1, Shinkawa, Mitaka, Tokyo 181-0004, JAPAN	**Status in the ITTC**
Contact details (phone, fax, e-mail) ［FAX］+81-422-41-3258　［E-mail ］info2@nmri.go.jp	**Website** http://www.nmri.go.jp/english /research_facilities.html

Type of facility Cavitation Tunnel	**Year constructed / upgraded** 1975
Name of facility **Large cavitation tunnel**	**Location** (if different from the above address)

Main characteristics (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top)
Length:18m, hight:10m ,Max. and Min. Abs. Presuure: 196kPa, 4.9Pa, Max.velocity: 20m/s(No.1 W.S.), 6.5m/s(No.2 W.S.)

Drawings of facility



Detailed characteristics

Description of facility: kempf and Remmers, vert. plan, closed recirculation.
Type of drive system: 4-bladed axial flow impeller with inverter control system
Total motor power: 355kw, 1150rpm
Working section Max. velocity: 20m/s(No.1 working section), 6.5m/s(No.2 working section)
Max. and Min. Absolute presser: 196kPa, 4.9kPa
Cavitation number range: sigma= 0.2 to 10
Instrumentation: 3 kinds of propeller dynamometer, 5 hole pitot tube, various pressure sensors, laser Doppler velocimeter and High-speed camera system.
Type and range of torque and thrust dynamometer:

T range	±5884N	Q range	±294Nm (Type J-26)
	±1961N		± 98Nm (Type H-38)
	± 687N		± 39Nm (Type R-46)

Propeller or model size range: diameter of propeller: from 150 to 400mm

250mm typical
Length of ship model; 7m Max.
6m typical

Applications (Tests performed)
(1) propeller test in uniform flow and non-uniform flow by wire mesh screen and behind ship model
(2) force and pressure distribution an hull, propeller blade, 2D or 3D wing, etc.

Published description (Publications on this facility)
Report of SRI, Vol.14 No.1, 1977