

Wave generator capability	Regular waves 0.90 m at a peak period of 2 s
	Irregular wave 0.45 m at a peak period of 2 s
	Wave direction $0 - 360 \text{ deg.}$
	Fitted with anti reflecting compensation (ARC)
Wave maker type:	Flap type wave generator along long side and sort side of the
51	basin. 330 flaps of 0.6 m wide, hinge depth 1.6 m
Beach type and length	Short side: Circular beach, length 8 m, fixed
	Long side: circular beach, length 6 m, moveable, lowered in
	case of 0 or 180 deg wave direction
Other capabilities	Wind generation by portable wind fans
Instrumentation	Dynamometers for:
	 thrust and torque in propeller hub,
	 6 component force balances,
	- thrusters
	- 4 component for rudder and fins
	Photo, video, underwater video,
	High speed cameras stroboscopes,
	Lighting for high speed camera observation
	Wave height transducers
	Pressure transducers wave loads and slamming loads Acceleration sensors
	Acceleration sensors
Model size range	0.3 - 12 m
Model tracking techniques	NDI camera (optical tracking)
Test performed	
Seakeeping	Seakeeping tests with measurements of motions, wave loads
	and added resistance of self propelled ships.
	Broaching and parametric roll
	High speed vessels (RIB, Life boats, Patrol boats) in extreme
	waves Dynamic tracking
	Dynamic tracking
Manoeuvring	Horizontal planar motion (CPMC) experiments
	Rotating arm experiments
	Manoeuvring test (zig-zag, pmm, stopping, turning circle)
Offshore	Test on moored and fixed object to determine motions,
	mooring forces and loads due to waves.
	Dynamic positioning tests
	Current load test
	Installation and sea transport of offshore structures
	Wave energy devices
	Drop tests for life boats
Other remarks	-
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Published description (Publications on this facility)	

R.P. Dallinga, The New Seakeeping and Manoeuvring Basin of MARIN, Japanese workshop on waves, 1999

H.H.A. Quadvlieg, A new combined Seakeeping and manoeuvring basin for the third millennium maritime research, MARSIM 2000.

http://www.marin.nl/web/Facilities-Tools/Basins/Seakeeping-Manoeuvring-Basin.htm