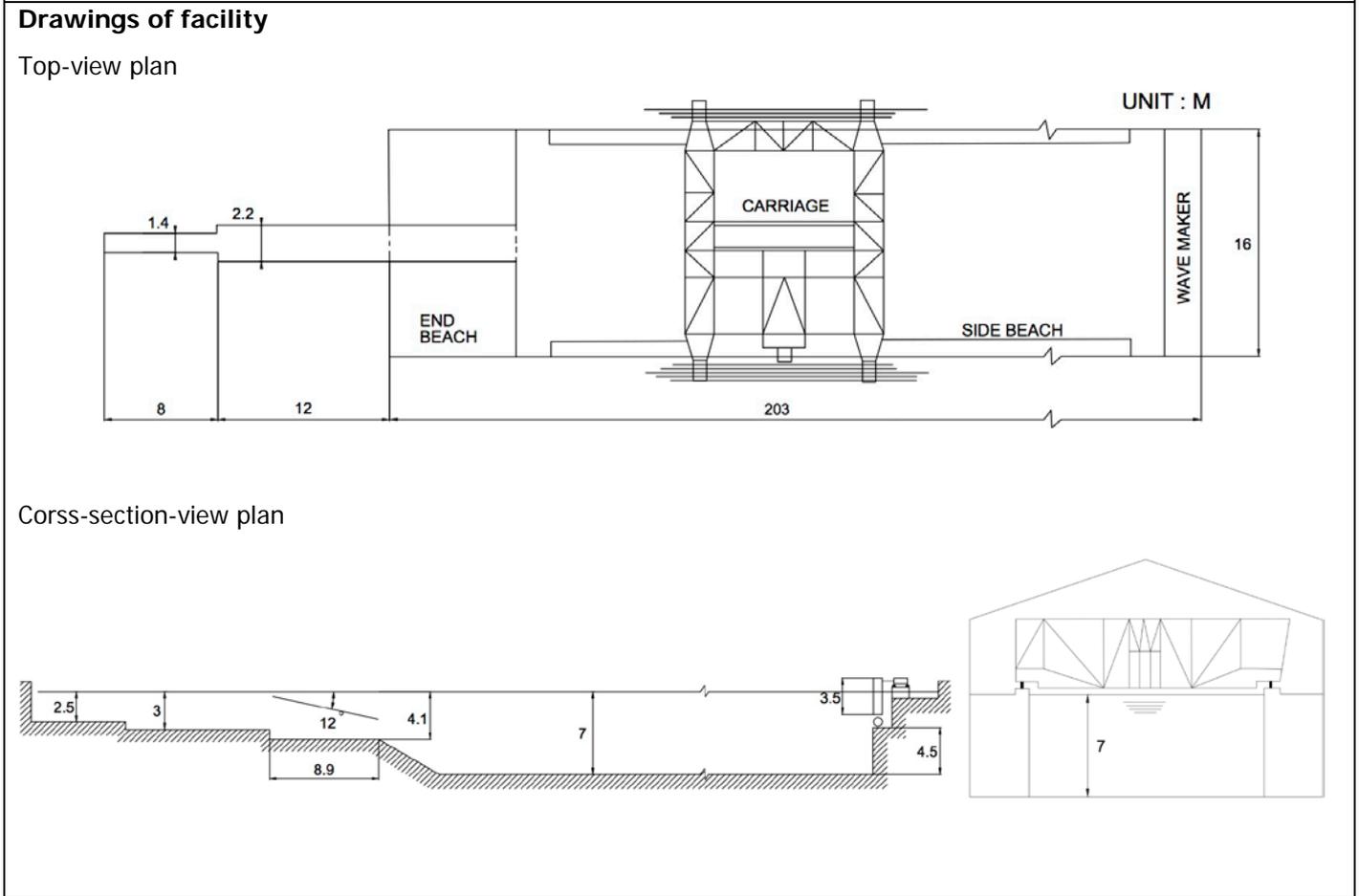


<b>Name of organization</b> Korea Research Institute of Ships and Ocean Engineering(KRISO)	<b>Year of information updating</b> 2016
<b>Year established</b> 1973	<b>Year of joining the ITTC</b> 1978
<b>Address</b> 1312-32 Yuseongdaero, Yuseong-gu, Daejeon 34103, KOREA	<b>Status in the ITTC</b> Advisory Committee
<b>Contact details</b> (phone, fax, e-mail) 82-42-866-3114 82-42-866-3002 hsahn@kriso.re.kr	<b>Website</b> www.kriso.re.kr

<b>Type of facility</b> Towing Tank	<b>Year constructed/upgraded</b> 1978/2014
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<b>Name of facility</b> KRISO Towing Tank	<b>Location</b> (if different from the above address)
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**Main characteristics**  
**Dimensions of tank:** length = 221 m, width = 16 m, water depth = 7 m, false-bottom (width=10 m, length=54 m)



**Detailed characteristics**

**Description of carriage:** driven by 8 x 65kW DC motors (one for each wheel) with digital dc drive, manual or automatic control, automated model tests by integrated control program

**Max. carriage speed:** 6.0 m/s

**Other capabilities:** vertical and horizontal PMM for surface ships and submerged bodies, false-bottom for shallow water tests (depth control range= 0.0 ~ 6.5 m)

**Beach type & length:** 8.9 m long permeable panel type end beach, brush type side beach

**Wave generation capability:** regular waves of 0.3 ~ 20.0 m in length, maximum wave height of 0.5 m  
maximum significant wave height of irregular wave is 0.3 m

**Wave-maker type:** single flap type, 16 m wide, motor driven, wet-back design

**Method of irregular wave generation:** random phase method & white noise filtering method

**Wave measurement:** ultrasonic wave probes on the carriage

**Instrumentation:** resistance dynamometers, propulsion dynamometers, planning boat dynamometers, one-component force gages, six-components force gages; Pitot tube rakes and five-hole Pitot tube; servo needle type wave probes, ultrasonic wave

probes; laser trim and sinkage measurement devices, dynamic motion measurement devices; propeller open-water test system; wave added resistance measurement system; towing stereo-PIV system

**Model size range:** model ship of 6 ~ 12 m in length, model propeller of 0.25 m in diameter as a standard propeller size

**Applications** (Tests performed)

- resistance and self-propulsion in calm water and waves
- propeller open-water tests
- hydrodynamic performance tests for electric propulsion system
- 3-dimensional wake surveys and flow visualization
- longitudinal wave cut measurements
- vertical and horizontal PMM tests
- flow field analysis by five-hole Pitot tube and towing stereo-PIV system
- wave induced motion and load measurements on ships, floated and moored structures
- hydrodynamics force measurements on foils, submerged bodies, and etc.
- shallow water tests

**Published description** (Publications on this facility)