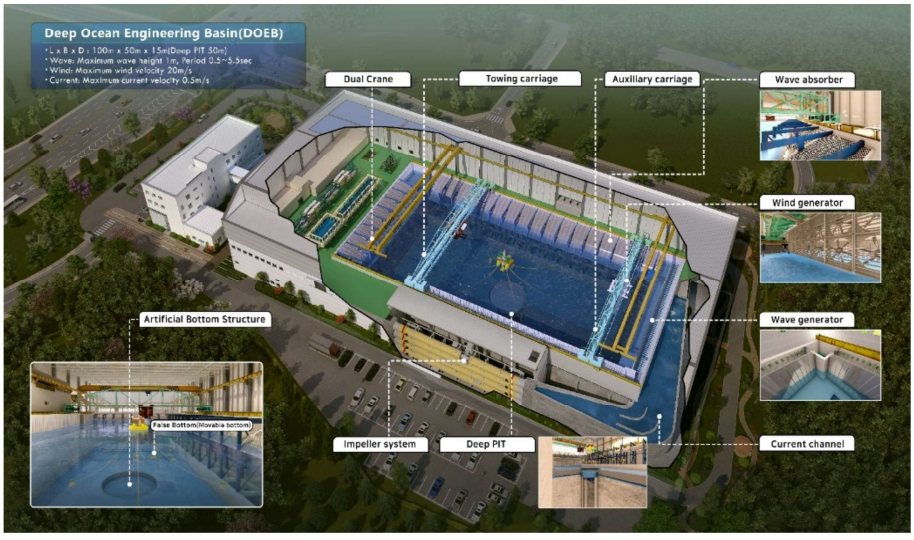
Name of organization Korea Research Institute of Ships and Ocean Engineering (KRISO)	**Year of information updating** 2025
Year established 1973	**Year of joining the ITTC** 1978
Address (HQ)1312-32 Yuseongdaero, Yuseong-gu, Daejon 34103, KOREA	**Status in the ITTC** Member
Contact details (phone, fax, e-mail) 82-51-604-7800 oeb-doeb@kriso.re.kr	**Website** www.kriso.re.kr
Type of facility Ocean Basin	**Year constructed/upgraded** 2020/-
Name of facility KRISO DOEB (Deep Ocean Engineering Basin)	**Location** 10, Saenggok-ro 189beon-gil, Gangseo-gu, Busan, 46729, KOREA
Main characteristics Length 100m, Width 50m, Water depth 0~15m Deep pit: dia. 12m × water depth of 50m	

Drawings of facility

< KRISO DOEB (Deep Ocean Engineering Basin) in Busan, Korea >



< Perspective View of KRISO DOEB >

Dimensions	L100m×B50m×D15m with a pit 12m dia.× 35m depth (50m below the free surface)
Wave Generation Capability: Wave Maker type and Extent: Irregular Wave Generation:	Period from 0.5s to 5.5s, maximum height 1.0m Electric multi-section piston type Long side(0.5m×2m×132units) Short side(0.5m×2m×68units) Summation of sine waves or user defined, also short crested
Computerized Planar Motion Carriage (CPMC)	Manual control, External control, Auto-tracking control Computer Forward run, Diagonal run, CMT(Circular Motion Test) Computer control: PMM(Planar Motion Mechanism), Oscillation Modes - Max. Speed : X/Y Carriage(4.0/3.0m/s), Yaw Table(30deg/s)
Current Generator type Current Generator Extent	Multi-layered(6) vertical current channels w/ 5 impellers Maximum speed 0.5m/s at vicinity of the water surface Uniform currents, deep water and depth variable current generation
Wind Generator type and Extent	Total number of axial flow fan module: 48 sets (12×4sets) Maximum wind speed at outlet: 20m/s
Movable Bottom	Size: L80m×B34m Operation: 0 ~ 48m * Floating up/down (winch & wire)
1. Model Tracking Techniques: 2. Model Size Range: 3. Tests Performed:	1. Position tracking using CPMC auto-tracking & computer mode 2. Models up to 10m(length), structures max. 30m wide 3.1 Marine Safety (seakeeping, maneuvering, stability & capsizing static & dynamic positioning, free running) 3.2 Offshore Engineering (wave kinematics, wave-current interaction, wave & current force on structure, sea transport & launching installation, TLP, VLFS, floating breakwater) 3.3 Ocean Equipment (underwater vehicle dynamics, underwater acoustic & tracking, collector system of deep sea mining) Marine Pollution Prevention (recovery and containment equipment, behavior of spilt materials)