

Large Scale Structural Failure Test Facility

CARING FOR LIFE, SAFETY, AND THE ENVIRONMENT

Test Examples



Sample Test Standards

ISO/NP 10855-1	<ul style="list-style-type: none"> Offshore containers - Part 1: Design, manufacture and marking
ISO/AWI TR 18624	<ul style="list-style-type: none"> Guidance for conception, design and testing of LNG storage tanks
ISO 16904	<ul style="list-style-type: none"> Petroleum and natural gas industries - Design and testing of LNG marine transfer arms for conventional onshore terminals
ISO 15401:2000	<ul style="list-style-type: none"> Ships and marine technology - Bulk carriers - Construction quality of hull structure
ASTM A131, A370, E8M, E21	<ul style="list-style-type: none"> Standard specification and test methods
IACS	<ul style="list-style-type: none"> Common structural rule for bulk carriers and oil tankers

Large Scale Structural Failure Test Facility

(대규모 준정적 / 동적 구조파괴 실증시험 설비)



For further information, please visit the website at www.kosori.org, or contact:

Prof. Jeom Kee Paik, President
Tel. +82-51-510-2429
E-mail. jeompaik@pusan.ac.kr

Assistant Prof. Yeon Chul Ha, COO
Tel. +82-51-510-3281
E-mail. ycha@pusan.ac.kr



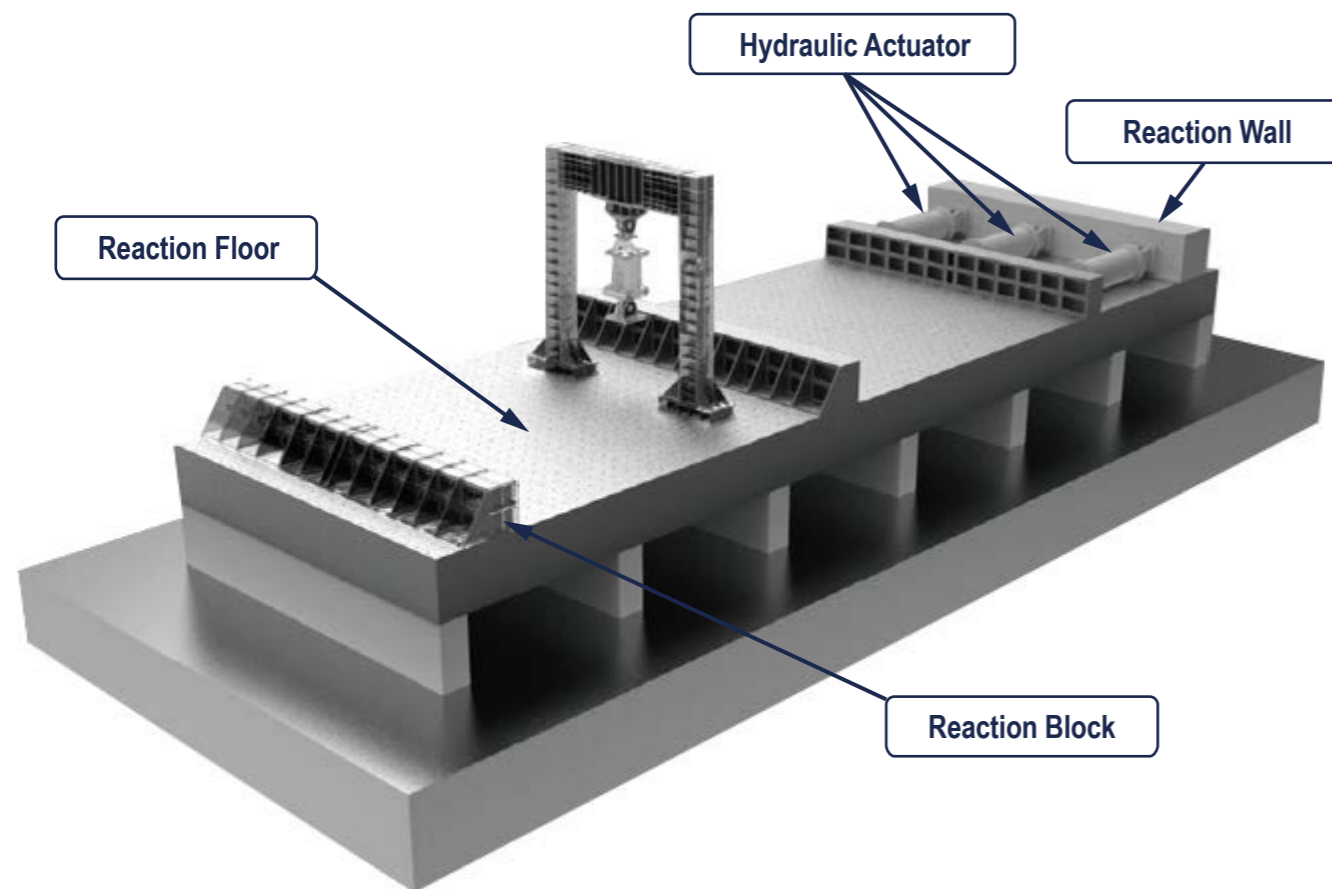
Large Scale Structural Failure Test Facility

Objectives

- Structural failure testing due to extreme loads
- Buckling and collapse testing of structural systems and components under monotonically increasing loads
- Failure testing of mooring systems or chains in tension
- Fatigue testing of structural systems and components under dynamically repeated loads

Features of Test Facility

- Full- or large scale test models idealizing real structural systems can be used.
- Combined loads can be applied.
- Remote control and automatic test data measurements are made.

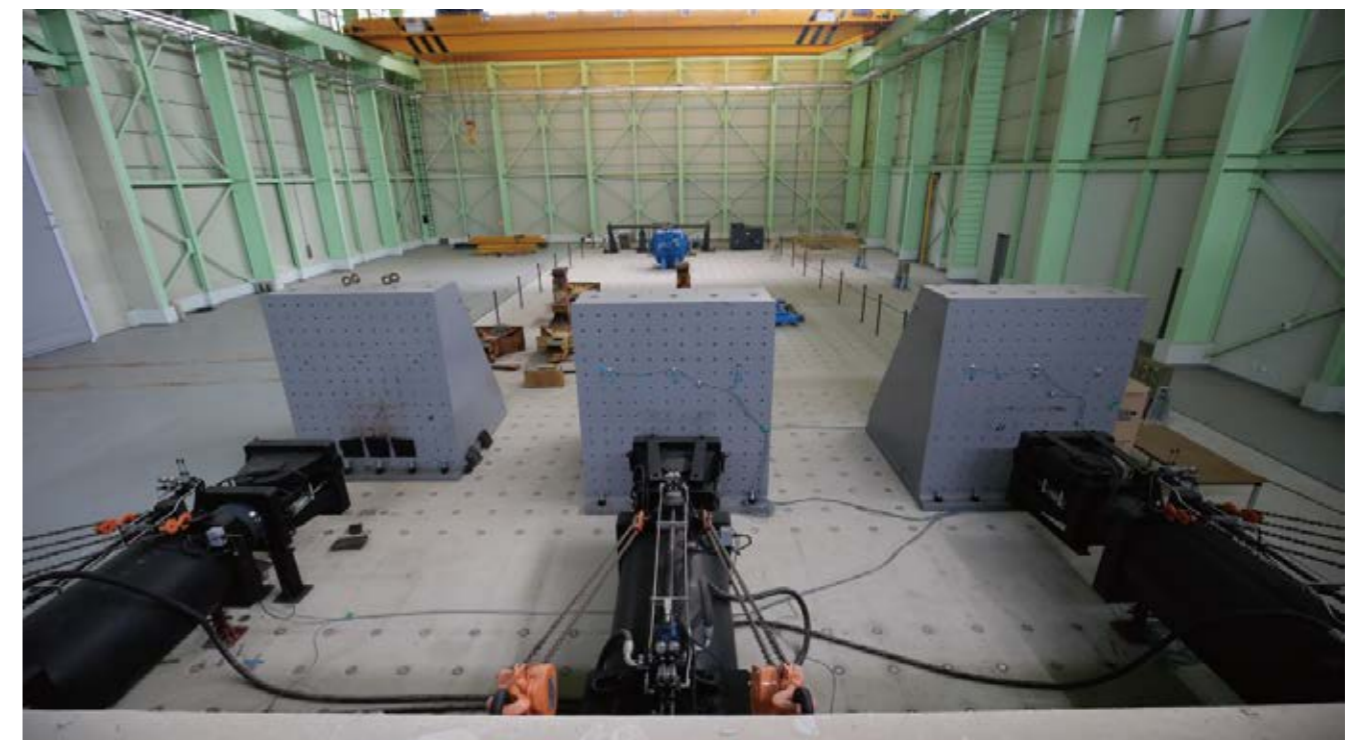


Specification

- Test bed size: L42 x W13 (m)
- Reaction wall: L13 x W2 x H3 (m)
- Loading speed: 0.1 ~ 14mm/sec
- Data acquisition: 130 ch., 1Hz/ch.
- Loading actuator capacity: 30MN (10MN x 3 sets)
- Maximum stroke of actuator: 1,200mm
- Load cell capacity: 36MN (12MN x 3 sets)

Large Scale Structural Failure Test Facility

Overview



Key Components

