

Structure Dynamic Design Group

RMS TECHNOLOGY Co., Ltd.

RMS 테크놀로지주식회사

Company Profile

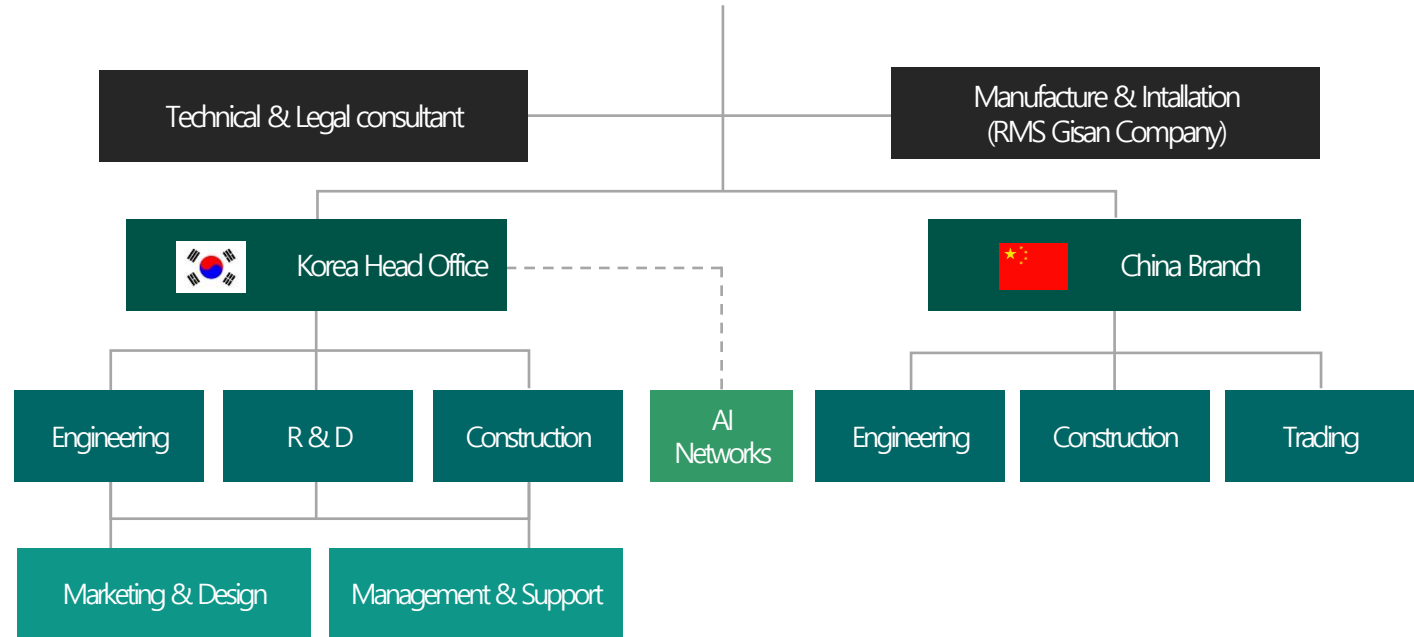
March. 2023

www.rmstech.co.kr

Overview

Name	RMS Technology, Co., Ltd.
C.E.O.	Dr. Hong-Ki Lee
Head Office	Cheonan-si, Chungcheongnam-do, Korea
Business	Noise & Vibration Engineering
Capital	1.5 Billion KRW(2022)
Revenue	14.1 Billion KRW(2022)
Credit Rating	BBB-(2021)
No. of Employee	28(Head Office)

Member's Degree	No. of Employee
Doctor of Engineering International Professional Engineer	7
Master of Engineering	9
Bachelor of Engineering	12
Total	28



Office Location



Beijing

Chengdu

Shanghai

Head Office
Cheonan, Korea


Career of Chief Executive Officer

Name	Dr. Hong-Ki Lee
Position	Total Project Manager
Education	Doctor of Engineering
Certification	International Professional Engineer


Period	Major	Degree
1982~1987	Naval Architecture and Ocean Engineering	Bachelor
1988~1990	Noise and Vibration Engineering	Master
1992~1997		Doctor

Period	Company	Position
1990~1998	Unison R&D Center	Senior Researcher
1999~Present	RMS technology, Co., Ltd.	Master

Registration No. IntPE(ROK)-2014-2070



This is to certify that
LEE, HONGKI
has been registered as
The APEC Engineer
and
The International Professional Engineer
in the Republic of Korea
on Jan .18 2022



President/KPEA
SeungHo Joo

Expiration Date: Jan .18 2025
The Korean Professional Engineers Association

Company History

2022

- Supplied Seismic Isolator for Nuclear Power Plant(Shin-Kori Unit 6)
- SMR Building 3D Seismic Isolator System Basic Design Review
- Development of Artificial Intelligence Vibration Monitoring System for Rotating Equipment in Nuclear Power Plant
- Development of Machine Learning Based Heavy Water Reactor Nuclear Fuel Channel Health Monitoring and Diagnosis Technology

2021

- MOU with Korea Research Institute for defense Technology planning and advancement
- Development for technology of 3-axis active mount to ADD (Agency for Defense Development)
- Development for technology of Seismic Isolator to Nuclear power plant

2020

- Development technology of Impact test device and holder to Korea Atomic Research Institution

2019

- Development & Delivery of Double Shock Wave test device to ADD(Agency for Defense Development)

2017

- Development technology of Shock absorber and Engine Mount for automobile using MR material

2016

- Development & Delivery of Impact Test Machine to ADD(Agency for Defense Development)

2013

- **Move the Company to Pung-Se Industrial Complex**

2012

- Installed the Railroad vibration isolation system on Haman Station of Gyeongsangnam-do

- **MOU with 'S.Y. Technology, Engineering & Construction Co., Ltd' of China**

2009

- **Established China Subsidiary(Sichuan RMS Business & Trade Co., Ltd.)**

- Designed the first Korean Railroad Crashworthiness Test Facility for KRRI(Korea Railroad Research Institute)

2007

- **NIKON Japan awarded as a domestic agency for vibration isolation system test**

2006

- Certified as a 'Venture Enterprise' and 'INNO-BIZ' from SMBA(Small and Medium Business Administration)

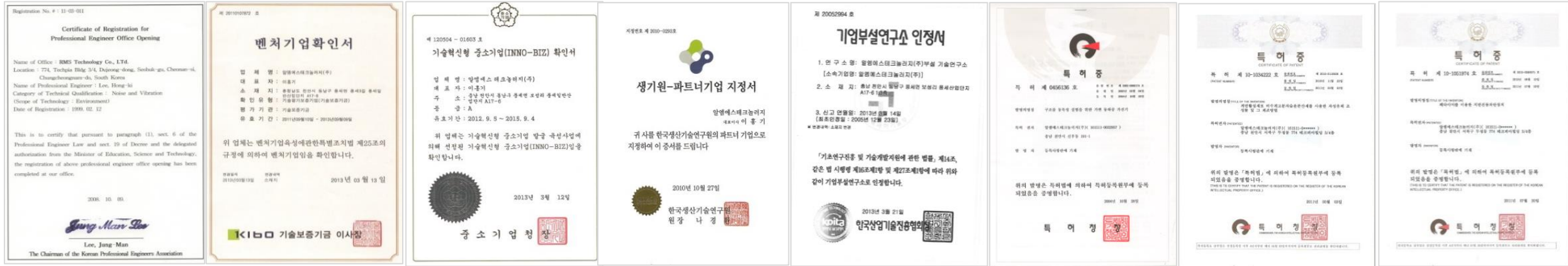
2005

- Establishment of Research Institute

1999

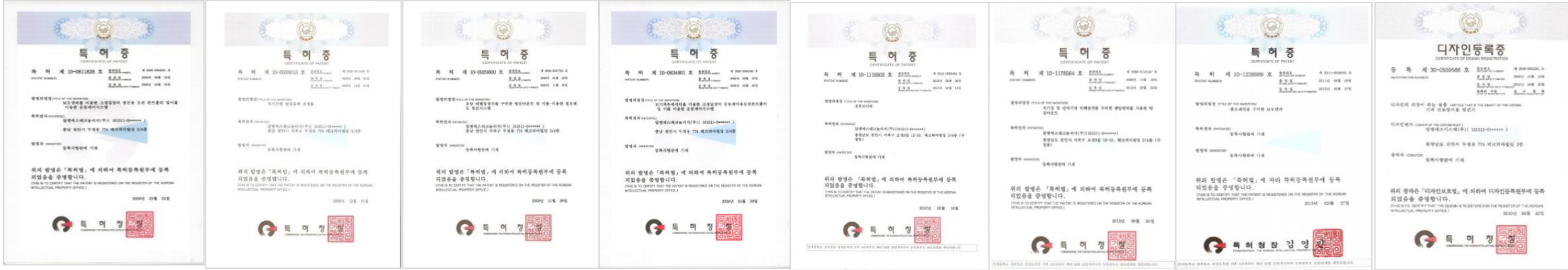
- **Establishment & register a government certified 'Professional Engineer's office**

Qualification and Technical Certifications



1	Certification of Registration for Professional Engineer Office Opening	The Korean Professional Engineers Association
2	Conformation of Venture Company	Korea Technology Finance Corporation
3	Conformation of INNO-BIZ(Innovation Business)	Ministry of SMEs and Start-ups
4	Designation of Partner Company	Korea Institute of Industrial Technology
5	Accreditation of R&D center	Korea Industrial Technology Association
6	Certificate of Patent-Variable dynamic force control type exciter for dynamic test of large structure	Korea Intellectual Property Office
7	Certificate of Patent-Magnetic Fluid Composite Using Non-Aqueous High molecular wetting Dispersant as Surfactant and Manufacturing Process of That	Korea Intellectual Property Office
8	Certificate of Patent-Vibration Isolation Device Using Wasted Tire	Korea Intellectual Property Office

Qualification and Technical Certifications



9	Certificate of Patent-Motion Controller with MR Damper for Vibration Isolation of High Precision Equipment and Motion Control System Using That	Korea Intellectual Property Office
10	Certificate of Patent-Magneto-Rheological Damping Fluid Composite	Korea Intellectual Property Office
11	Certificate of Patent-Vibration Isolation Mount Having Hydraulic Leveling Device and Rail-Road Vibration Isolation System Using the Mount	Korea Intellectual Property Office
12	Certificate of Patent-Motion Controller with Electric Actuator for Motion Control of High Precision Equipment and Motion Control System Using That	Korea Intellectual Property Office
13	Certificate of Patent-Vibration Monitor	Korea Intellectual Property Office
14	Certificate of Patent-Vibration Isolation Mount Using MR Damper Having Magnetic and Electro-Magnetic Shielding Device	Korea Intellectual Property Office
15	Certificate of Patent-MR Damper Having Membrane	Korea Intellectual Property Office
16	Certificate of Design Registration-Mechanical Vibration Isolation System	Korea Intellectual Property Office

Measurement and Analysis Equipment

Item		Quantity		Maker
Analyzer		Set	10	B&K, OROS
DATA Recorder		Set	2	SONY, TEAC
Vibration	Accelerometer	EA	15	DYTRAN
		EA	40	PCB
		EA	4	WILCOXON
	Acc. Amplifier	EA	6	DYTRAN
	Force Sensor	EA	5	WILCOXON
	Impact Hammer	Set	6	RMS / ENDEVCO / PCB
	Vibration Calibrator	EA	2	B&K, PCB
Sound	Sound Level Meter	Set	5	AREVA01dB, Larson Davis, B&K
	Microphone & Preamp	EA	10	G.R.A.S / PCB
	Sound Calibrator	EA	2	LARSONDAVIS

S/W	Application	
Vibration, Dynamic Analysis & General Design	ANSYS	Dynamic Analysis
	MIDAS	Static Analysis of Building & Machine
	Solidworks	
	RMSGEODB	Measurement Data Base, Archiving & Management
Noise, Acoustics and Vibro-Acoustic Analysis	Raynoise, CADNA-R	Indoor Sound Analysis
	Sysnoise	Vibro-Acoustics
	CADNA-A	Environmental Outdoor Noise Analysis
	ENPRO	
	INSUL	Sound Transmission Loss Calculation
	T.A.P.	Duct Sound Calculation
	Fan Mechanics	Silencer Design Tool

Proposal for Joint Work

Business Area	Items	Business Form
Industrial	Residential Facilities Sensitive to N&V Creating a Quiet Environment for Performance and Religious Facilities	N&V field specialized Design and Construction Marketing ->Outsourcing technical Service performed by RMS technology in the N&V Field
Precision Instrument	Factory requiring Severe Vibration Level Hospitals that use Precision Equipment such as MRI	Review the Impact of N&V at the Design Stage Able to work in Korea
Research & Development	Research Service or Product Development : Military, Railroad, Shipbuilding, Industrial Etc.	Traveling when Measurement or Meetings are Required No Need for Local Resident Engineers
Nuclear Power Plant	Installation of Seismic Isolator Technical Service for Local NV Problem	
Anti Vibration Construction	Anti Vibration Construction requiring Field : Railroad, Fitness, Machinery Etc.	<p><Work scope> : Marketing : Anti Vibration Product installation</p> <p><RMS technology work scope> : Selection of Anti Vibration Products : Drawing for Construction : Anti Vibration Products provide</p>

*N&V : Noise & Vibration

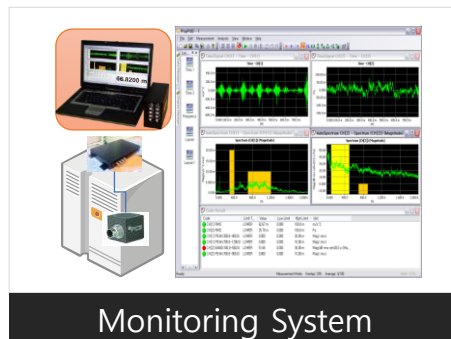
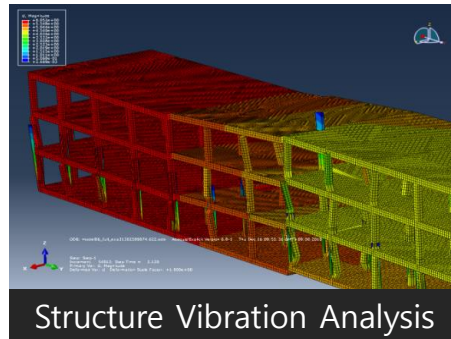
Noise and Vibration Control Strategy



Field of Work

Vibration Control

- Structure : Environmental Vibration Mitigation
- Machine, Equipment Vibration Control
- Precision Industry : Semiconductor, FPD FAB Structure Design and Equipment Evaluation, Control
- Design, measurement & analysis of Monitoring System
- Anti-Vibration System Design, Manufacture, Installation
- Traffic Vibration : Railroad, Subway and Road vehicle vibration Control



Field of Work

Noise
Control

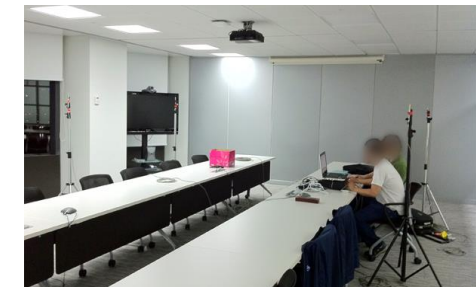
- R&D Equipment Sound-Borne Vibration Solution(SEM, TEM, AFM, MRI, WAFER SIGHT etc)
- Machine, Utility Noise Control
- Environmental Noise Measurement, Analysis, Simulation and Control Measure
- Impact Sound Measurement, Indoor Sound Simulation
- R&D Facility Sound Design & Noise Control ; Anechoic Chamber, Reverberant Chamber, Studio, Concert Hall etc.
- Silencer, Soundproof Wall & Sound Insulation Design, Construction
- Traffic Noise : Aircraft, Railroad, Road Vehicle Measurement, Analysis, Evaluation, Simulation, Control Measure



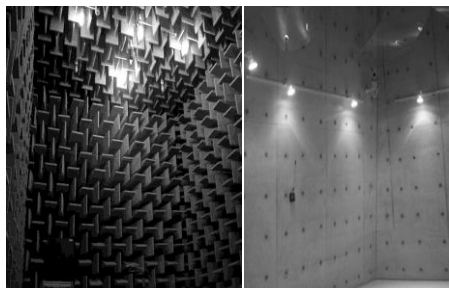
Sound-Borne Vibration Control



Impact Sound Test



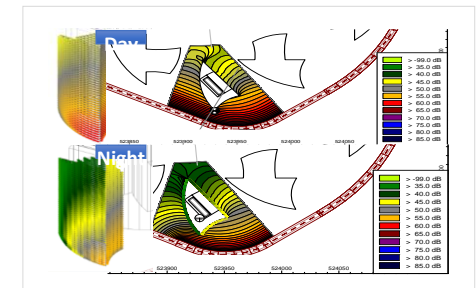
Indoor Sound Transmission Test



Sound Testing Chamber



Floor Impact Sound Control

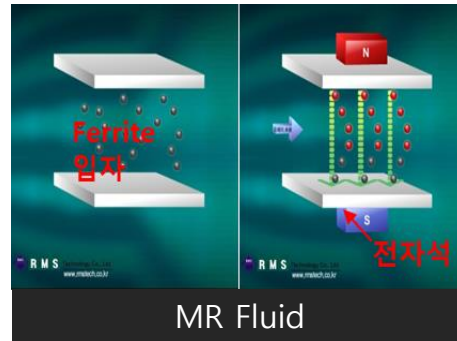


Traffic Noise Simulation

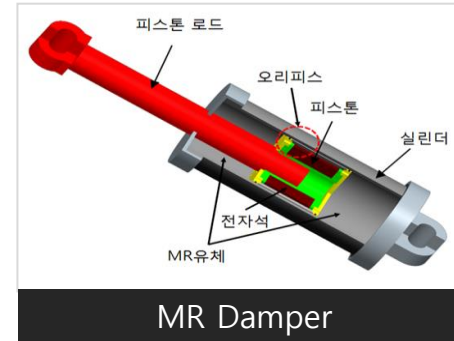
Field of Work

Research and Development

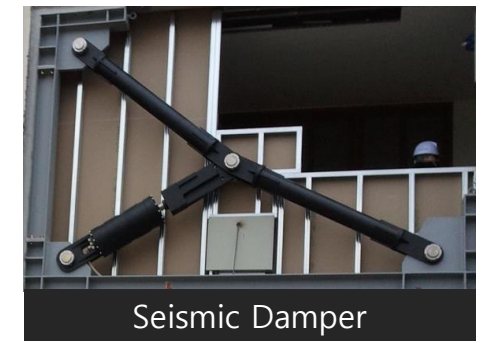
- Technology improvement and Product development through participation in Government-led Research Projects
- Development of Technologies applicable to Various Industries
 - Korea Atomic Research Institution
 - Agency for Defense Development
 - Korea Railroad Research Institute
 - Korea Automotive Technology Institute
 - Korea Institute of Industrial Technology



MR Fluid



MR Damper



Seismic Damper



Seismic Isolator



Double Shock Wave test device



Blast resistant Design

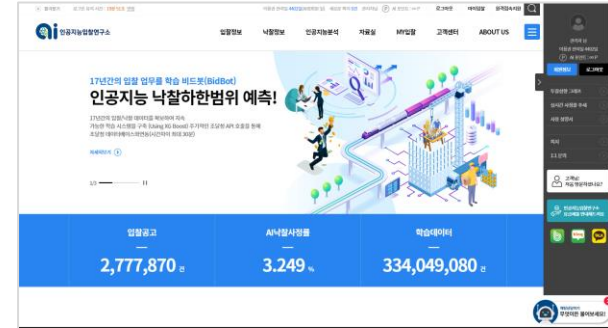
Field of Work

Big Data and A.I (Artificial Intelligence) Platform

- Data Base Development and Noise and Vibration Assessment Technique in connection with Data Base
- Development of Artificial Intelligence Bidding program
- Military Equipment Management program
- Development of Software for de-Identification of Personal Information in Vehicle Images



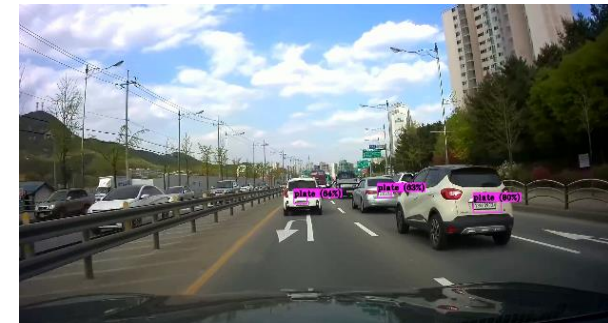
Noise and Vibration Assessment Technique



Bid Analysis and Forecasting



Military Equipment Management



Personal Information de-identification



- A2(Gen. 5.5), A3(Gen. 6.0) OLED Fab.
- T7(Gen. 7), T8(Gen. 8) LCD Fab.
- China Suzhou(Gen. 8) LCD Fab.



- P3, P4, P5, P6, P6E LCD Fab.
- P7(Gen.7), P8(Gen.8), P9(Gen.9) LCD Fab.
- Guangzhou GP1, GP2(Gen.8) LCD Fab
- P10(Gen.10.5/Gen.6) LCD/OLED Fab.



- C3(200mm) Fab.
- M11, M12, M14(300mm) Fab



5代线厂房鸟瞰图

B1 5代



4.5代线厂房鸟瞰图

B2 4.5代



6代线厂房鸟瞰图

B3 6代



8.5代线厂房鸟瞰图

B4 8.5代



B5 8.5代



B6 OLED



B7 OLED



B8 8.5代

Industrial Structure Design



Indoor Blast Resistant Structure



Crashworthiness Test Facility



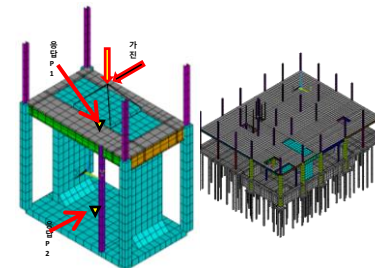
Molding Structure



Foundation Isolation System



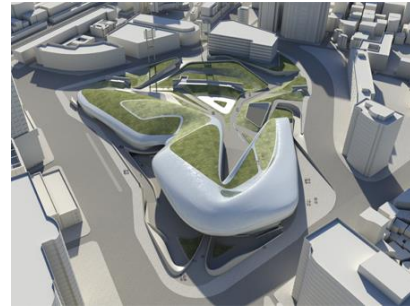
Wind Tunnel



Wind Tunnel



LOTTE WORLD TOWER



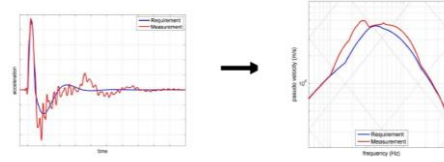
IPARK



MBC

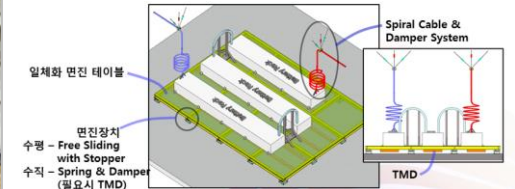
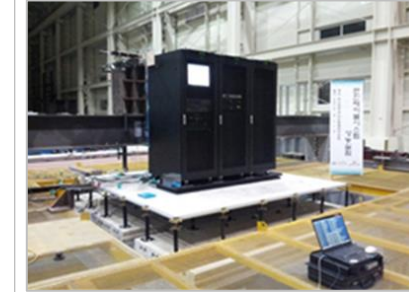


Double Shock Wave Test Device



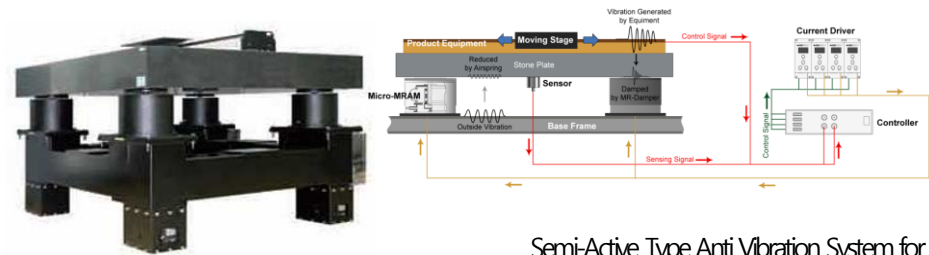
Underwater Impact Environmental Simulation Equipment

3D Seismic Isolator System



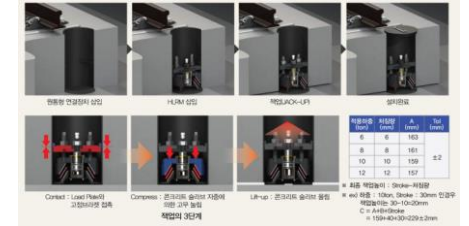
Horizontal Vibration Reduction

Vibration Isolation System for Semiconductor/LCD Equipment



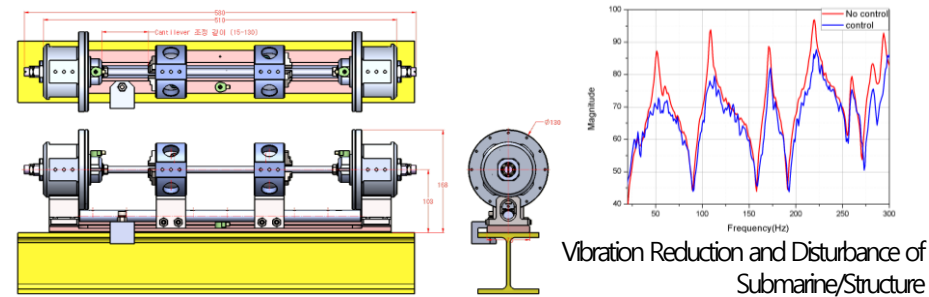
Semi-Active Type Anti Vibration System for Vibration Control for Precision Equipment

Railway track Anti-Vibration System



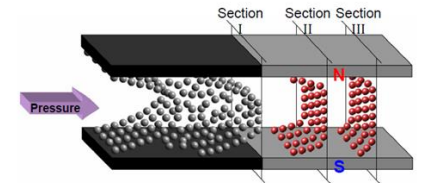
Vibration and Structure-Borne Noise Reduction

Low-Frequency Acoustic Signal Reduction & Disturbance Devices



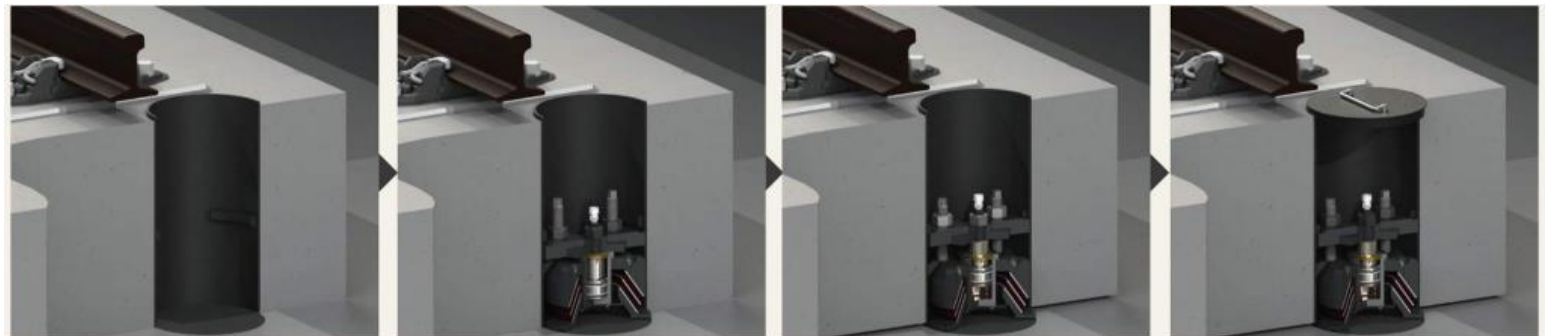
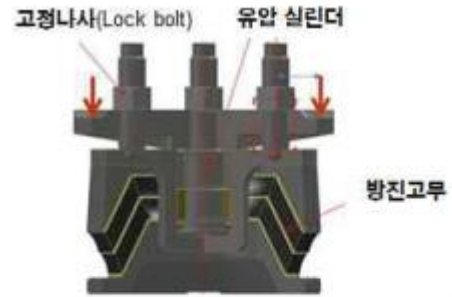
Vibration Reduction and Disturbance of Submarine/Structure

MR(Magneto-Rheological) damper



Vehicle, Train, Aircraft, Earthquake Resistance, Isolation Using Fluid Characteristics

- Blocking Vibrations transmitted around the Railroad



Concrete Slab Installation

Insert Isolator

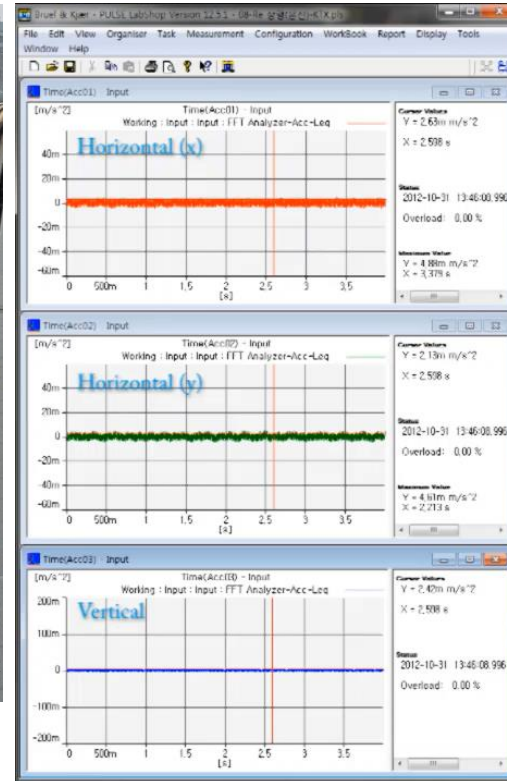
Jack-Up

Finish

Anti Vibration Products Installation

Railway Anti Vibration System

- Blocking Vibrations transmitted around the Railroad



****Compare the Vibration Measurement Results**

Anti Vibration Products Installation

Anti Vibration System For Precision Equipment

- Application of the Lower Part of the Equipment that requires a Quiet Vibration Environment



Anti Vibration Products Installation

Anti Vibration System For Machinery

- Anti-vibration Measures under Rotating Equipment such as AHU, Motor, Compressor Etc.



Isolator under Rotating Machine



Isolator under Pump

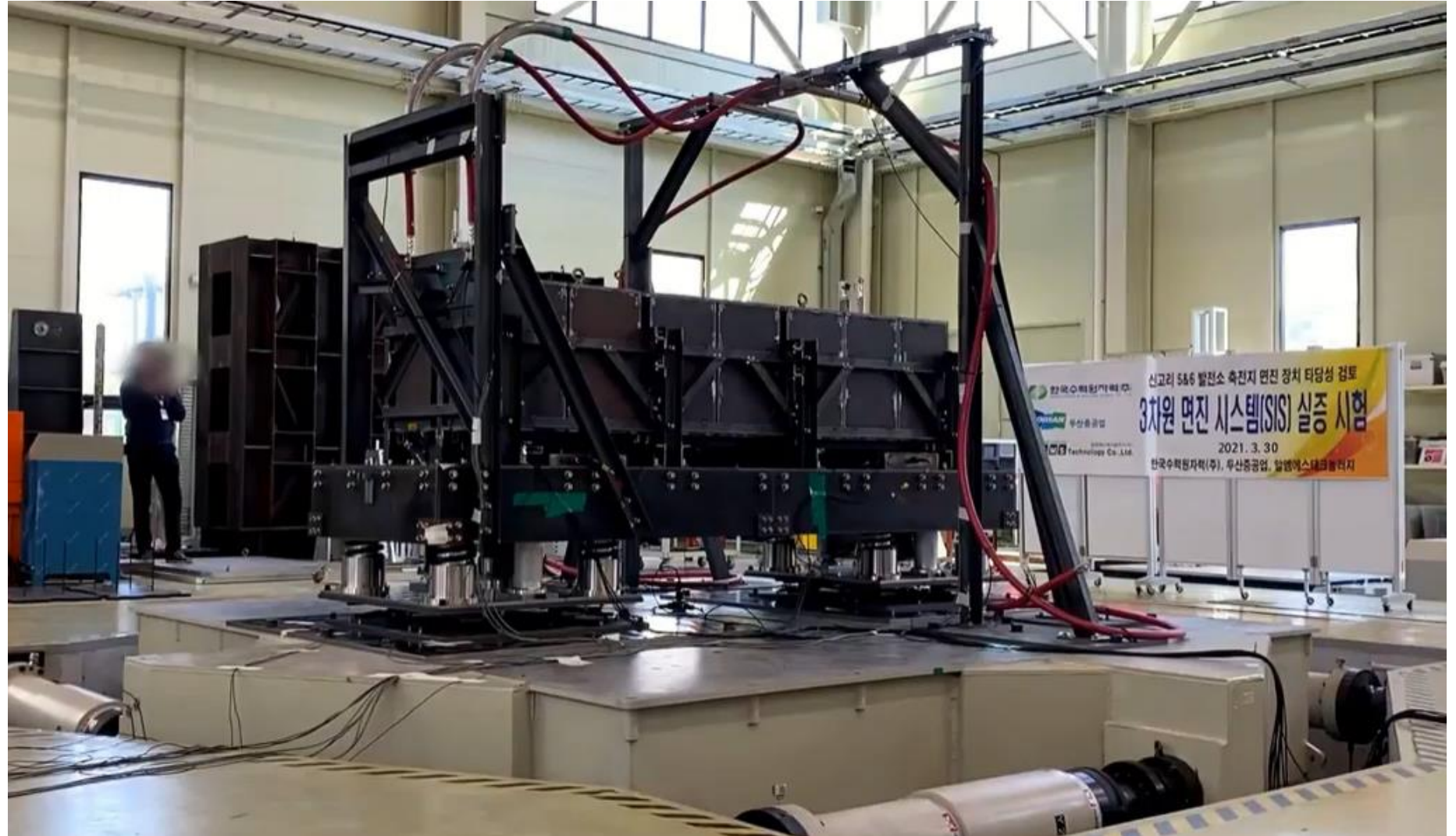


Isolator under AHU



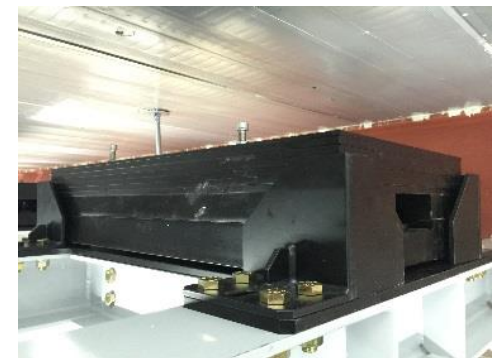
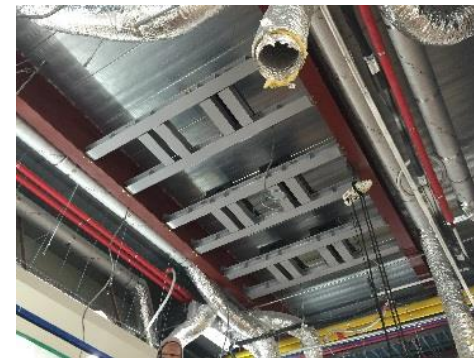
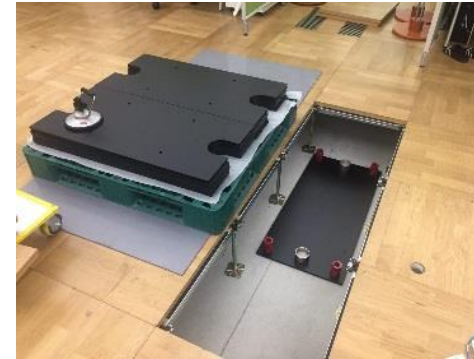
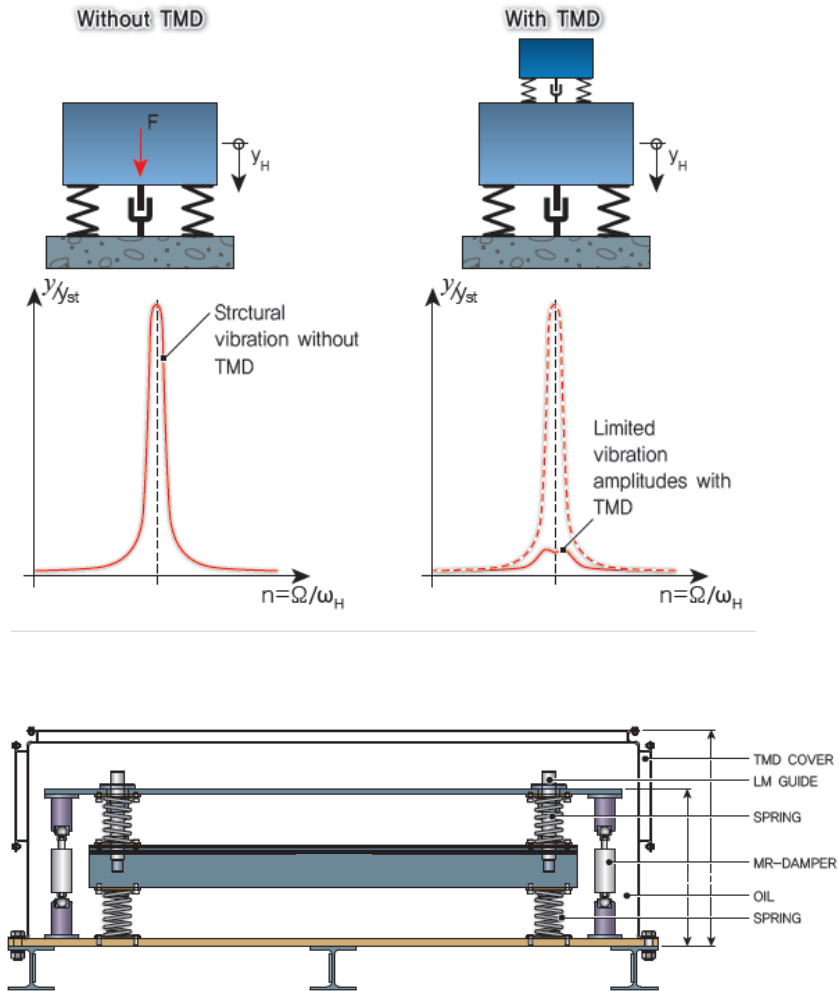
Stiffness Reinforcement for Structure

- Seismic Isolator under Important Equipment in preparation for Earthquake Damage

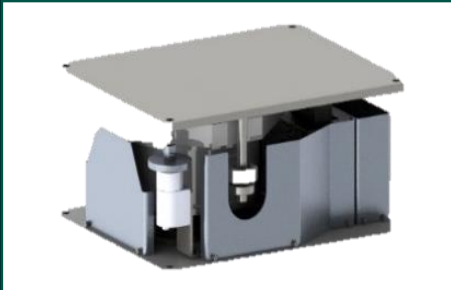


Tuned Mass Damper for Vibration Reduction in Structure

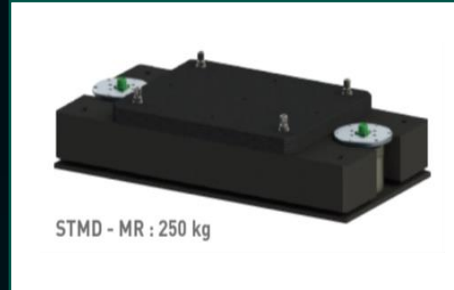
- Can be installed on Top or Bottom of Concrete slab



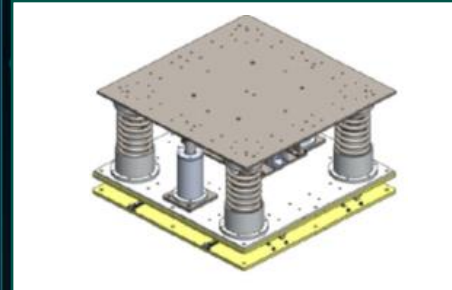
Products related to Seismic and Vibration Isolation



Semi-Active Isolator



Tuned Mass Damper



3-axis Seismic Isolator



Magneto Rheological Fluid



Seismic Isolation Table



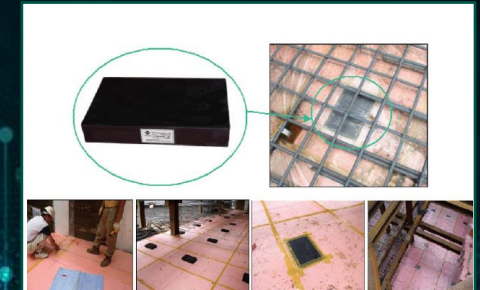
Heavy Weight Isolator



Seismic MR Damper



High Efficient Rubber Mat (Column)



High Efficient Rubber Mat (Foundation)



Structure Dynamic Design Group

R | M | S

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