



Top Expert Technology Supporting the World and Maintaining the Safety

# UTMOST EXPERT TECHNOLOGY





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UTMOST EXPERT  
TECHNOLOGY





## Greetings

Since its establishment in 1984, Unison eTech Co., Ltd. has grown up as a leading corporation that implements manufacturing and supply of major parts, project development, and an integrated EPC project in the fields of plant, construction, power generation, and new and renewable energy through incessant innovation and bold investment even in rapidly changing business environment and is making utmost effort with the goal of achieving continuing growth.

Value of Unison eTech Co., Ltd. is to nurture safe and happy future for humanity. To this end, we have secured top expert technology through incessant innovation, and have provided no defect products and services through quality management, since our philosophy is to make no compromise with regard to the quality of our products.

Through VISION 2020, Unison eTech Co., Ltd. will pursue top expert technology that supports the world and nurtures our future through perfect harmony, open communication, and on-going innovation and, based on this strength, will promise that we will provide best products and services to our customers.

Please keep on watching our performance with continued interest and support. Thank you.

**- Unison eTech Co., Ltd. -**

## Company Profile

### About Company

**Unison eTech Co., Ltd.** is a company that manufactures and supplies major facilities, equipment, and materials in the fields of plant, construction, new and renewable energy and implements project developments and an integrated EPC business in related fields.

### Business Model & Intro



### Global Network

For securing top expert technology and on-going innovation, Unison eTech Co., Ltd. has acquired **HKR Co., Ltd.**, a leader in expansion joint market in 2011 and reinforced our competitiveness in the field of existing equipment and material field. Not only that, our company has also entered into a technology partnership with other global leaders of various industries in the U. S., Asia, and the Middle East and has established 3 overseas corporations and 2 joint venture companies to provide quality services through manufacturing, supply, and management.

Overseas Corporation

Technology Partnership

Joint Vneture

Technology Partnership	Overseas Corporation	Joint Vneture
USA	Vietnam(1)	Vietnam
Japan	Vietnam(2)	Iran
China	Indonesia	Thailand



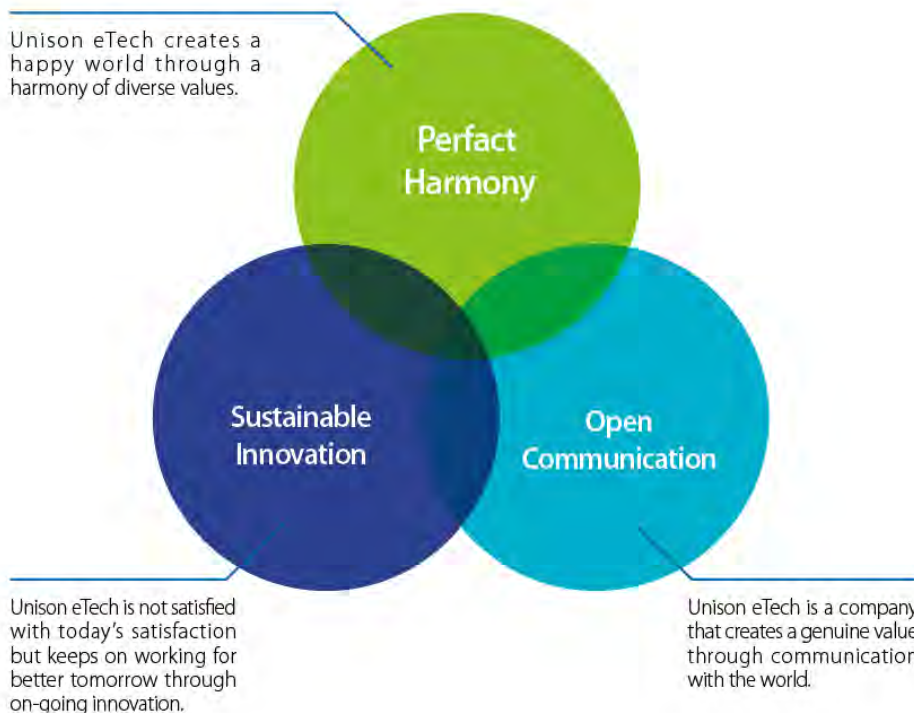
## UET Management Philosophy & Core Values

### Company Motto

“Creation of a top innovative company based on harmony and communication”

### Core Value

Unison eTech creates a happy world through a harmony of diverse values.



Unison eTech is not satisfied with today's satisfaction but keeps on working for better tomorrow through on-going innovation.

Unison eTech is a company that creates a genuine value through communication with the world.

### Vision

## Support the World, Maintain the Safety

- Top expert technology that supports the world and maintains the safety -

### Management Philosophy

- 1. Reinforcing business competitiveness thorough concentration of core capability**  
We will become a global leader beyond No. 1 in Korea through reinforcement of competitiveness in the 3 core business areas of plant equipment and materials, bridge and construction, and power generation and energy.
- 2. Discovering a new growth engine through creativity and innovation**  
We will contribute to the happiness of humanity by discovering a new growth engine through unceasing change and creative innovation.
- 3. Maximizing customer satisfaction through quality management**  
We only think of best quality in order to ensure safety and happiness of our customers.

## UET History

- 1984.09 Established Unison Co., Ltd.
- 1990.12 Selected as Advanced Technology SMB Company (by the Ministry of Industry and Energy)
- 1992.07 Received an SMB Grand Prize
- 1992.11 Received Excellent KS Business Grand Prize: the Presidential Award
- 1993.11 Registered in KOSDAQ market
- 1994.12 Obtained ISO9001 Certification (for all KSA-QA items)
- 1995.11 Received Quality Management Award: the Presidential Award
- 1996.11 Obtained EM Mark (Elasticity support & quake-resistant bearing for Express Railway, KATS)
- 1997.04 Obtained NA, NPT STAMP Certification (U.S. ASME)
- 1997.08 Obtained KEPC-MN Quality Assurance Certification (KEA)



- 1998.02 Selected as Promising SMB business for export (SMB Corporation)
- 1999.12 Received a Golden Tower Export Medal (MOIE)
- 2000.04 New Technology Nomination (Seismic isolation system using friction-type pot bearing (MOCT))
- 2000.09 Selected as Excellent Product (Friction-type pot bearing, elasticity bearing for express railway, lead vibration isolation bearing: Supply Office)
- 2001.05 Completed Cheonan Integrated Plant
- 2002.11 Obtained Reliability Certification (Pot bearing, Elasticity bearing: KATS)
- 2003.11 Received Korea Quality Grand Prize (MOIE)
- 2004.05 Received International Standard System Management Award (ISSMA) Grand Prize (Korea Standard Association)
- 2004.11 Received Silver Tower Industrial Medal (MOIE)
- 2006.11 Obtained ISO 14001 Certification (KSA - All items)
- 2006.11 Selected as Excellent Quality Competitive Company for 10 years in a row (KATS)

1972~1997

1998~2006

## HKR History

- 1972.10 Established Korea Spiral Tube Industrial Company
- 1974.07 Developed expansion joint/flexible tube and began production thereof for the first time in Korea
- 1978.05 Selected as designated company for KEP localization in the field of KEP nuclear power generation
- 1985.11 Obtained KS B1536 Bellows type expansion and contraction pipe joint / KS Mark Permit
- 1994.07 Selected as Manufacturer/Supplier of Nuclear Power Q-Class & CAS 7299.2 (Korea Heavy Industry)



- 2000.08 ISO 9001 (K-638)
- 2000.09 Received the 16th Kyunghyang Electric Energy Grand Prize / Nuclear Power Division: the Premier Citation
- 2001.04 Registered as Qualified Company for Hydro & Nuclear Power's equipment and material supplier for select items of power generation facilities (T/R/Q Class)
- 2002.04 Received Korea Hydro & Nuclear 2002 Excellent Equipment & Material Supplier Citation
- 2002.07 Obtained ASME "U" & "PP" STAMP
- 2002.11 Received the 39th Trade Day "3 Million Dollar Export Tower" Award
- 2005.07 Obtained CE-PED (Pressure Equipment Directive) Certification
- 2005.08 Obtained ASME "S" Stamp
- 2005.10 Obtained Type approval - Lloyd's Register - LNG Carrier
- 2006.01 Obtained Type approval - ABS - LNG Carrier
- 2006.04 Approved as Bellows manufacturer for LNG from GTT of France
- 2006.04 Type approval - Obtained DNV - LNG Carrier
- 2006.05 Selected as "2005 Best Supplier" from Toshiba of Japan





- 2007.11 Received KDB Global Star Award
- 2008.03 Received Excellent Green Energy Company Grand Prize 3 years in a row
- 2009.10 Established Unison High-tech Com., Ltd. (Branch Company)
- 2009.10 Established a Corporate Research Institute
- 2010.09 Obtained 'Green Technology Certificate'
- 2010.11 Received the 36th Korea Quality Management Grand Prize: the Presidential Award
- 2011.04 Established Unison eTech Co., Ltd.
- 2011.08 Unison eTech Co., Ltd. merged with Unison E & C Co., Ltd.
- 2011.09 Acquired a share of HKR Co., Ltd.
- 2012.05 Obtained 'Environment New Technology Certification' (The first instance in the field of bio-gas plant in Korea)

- 2013.01 Concluded a Joint Development Agreement with Hyundai Heavy Industry
- 2013.02 Concluded a Strategic Technology Partnership with STEJASA
- 2013.06 Obtained CE (CPD) Certification
- 2013.08 Received Quality Circle Competition of Korea: the Presidential Award
- 2013.09 Renewed KEPIC-MN Certification
- 2014.06 Selected as 2014 Prospective SMB Export Company (SMB Administration)
- 2015.02 Selected as Excellent Business Partner of Doosan Heavy Industry
- 2015.04 Registered Energy Saving Expert Company (ESCO) License
- 2015.04 Obtained SMB Technology Innovation Company (INNO-BIZ) Certification
- 2016.05 Established Vietnam corporation 'Unison VINA'
- 2016.07 Obtained OHSAS 18001:2007 Certification
- 2016.08 Renewed NS, NPT STAMP Certification (U. S. ASME)
- 2016.09 Received 2016 Excellent Capital Goods Developing Company: the Ministry of Trade, Industry and Energy
- 2016.09 Renewed KEPIC-MN Certification

## 2007~2012

## 2013~2016

- 2007.04 Obtained Type approval -KR- LNG Carrier
- 2007.11 Concluded INTERCOOLER PIPE -500 Million Dollar Agreement with the U. S. GE
- 2008.01 Changed company name to HKR Co., Ltd.
- 2008.06 Concluded the Bellows for LNG Ship Delivery Agreement with Daewoo Shipbuilding (Line No. 2)
- 2009.08 Completed HKR Vietnam Plant
- 2010.06 Selected as "2009 Best Supplier" by Toshiba of Japan
- 2010.06 Obtained ASME "NPT" STAMP and ISO 18001 (Health Safety Certification System)
- 2011.07 Received "2010 Excellent Business Partner Citation" from Hitachi of Japan
- 2011.10 M&A with Unison e-Tech Co., Ltd. 2011
- 2011.12 Selected as Excellent Business Partner of GE AERO ENERGY
- 2012.09 Constructed and expanded Cheonan #2 Plant

- 2013.02 Obtained ASME "U2" STAMP
- 2013.05 Joined EJMA Membership
- 2013.11 Obtained Type-approval -NK- Gas Carrier
- 2014.06 Registered as one of the 5 qualified power generation equipment & material suppliers in Korea
- 2015.03 Renewed KEPIC MN Certification
- 2016.01 Selected as Regular Member of Korea Dongsuh Power Generation SMB Council





# Support the World! Change the World!

## Top Technology Expert Company of Korea and the World with longer than 30 years of history

A leading player in the field of hangers, supports, and expansion joints, a company maintaining its unique position both in Korea and abroad with an unceasing passion and a spirit of challenge

## 01 BUSINESS AREA

### Plant Equipment and Material

We design, manufacture, and supply pipe hangers and supports as well as expansion joints for such national trunk industries as nuclear power plant, thermal power plant, and other basic industries such as petrochemical plant and various heavy industries including steel mill and LNG storage tank, together with other high value-added industries such as FPSO (marine LNG gas production and storage facilities).



## ▶ Hanger & Support Part



Hanger and support are **safety equipment installed to support and protect piping system from internal and external shocks** that are caused by deformity due to self-weight and heat expansion, vibration of fluids, and other seismic causes that occur when fluids such as water, steam, and gas flow in the pipes depending on various plant systems.

### Why UET?

#### Building Top Design Capability



UET realizes perfect design up to 3D interference by building libraries for PDS, PDMS and SP3D utilizing piping stress analysis and built-in design automation program (UDAS) using CAESARII and Auto PPE Programs.

#### Maintaining Best Quality

A<sup>+</sup>

UET pursues at all times best quality as exemplified by past records of obtaining ISO9001 for the first time in the field, and obtaining other Certificates such ISO14001, OHSAS18001, the U. S. ASME-NS, NPT and KEPIC-MN of Korea Electric Association.

#### Realizing Customer Delight



UET realizes customer satisfaction through innovative product improvement and prompt customer response depending on the needs of changing customers.

## Expansion Joint Part



Expansion Joint is used **to prevent an accident in advance and to reduce noise** by absorbing excessive stress related to location change and damage of pipes that are caused by expansion and contraction, vibration, wind pressure, earthquake or ground subsidence. Installed mainly in heat pipe line and LNG super-low temperature line of such plant facilities as power plant, petrochemical plant, and steel mill, these joints play the role of absorbing expansion and contraction, vibration, and ground subsidence. Depending on the materials used, joints are divided into metal, non-metal, and rubber joint type.

### Why HKR?

#### Top Class Technology



Top class technology was approved in expansion joint field by joining EJIMA (Expansion Joint Manufacturers Association) that consists of world-class expansion joint makers for the first time by a Korean company.

#### Zero Defect



Having obtained EJIMA, KELLOG, ASME, ANSI, JS & KS, CE-PED and possessing diverse certifications, both domestic and foreign, HKR is carrying out manufacturing activities with a determination to produce and supply top quality products utilizing a thorough quality control system for manufacturing processes and work condition services in a spirit of "Quality First."

#### Top Level Customer Satisfaction



In an effort to keep providing 40 years long top level customer satisfaction, HKR optimizes such design conditions as required to optimize expansion and contraction, vibration, fluids, and temperature for each pipe before supplying the products. We provide optimized service through an analysis of customer demand and in-house design.



## Damper Part



### What is Damper?

Damper refers to **a product that is used to control the flow of vapors** such as air or exhaust gas that flows in a duct. Installed in the middle or at the entrance of a duct, damper plays **the role of controlling the flow by varying the passage area of the vapor** concerned.

#### CONTROL DAMPER

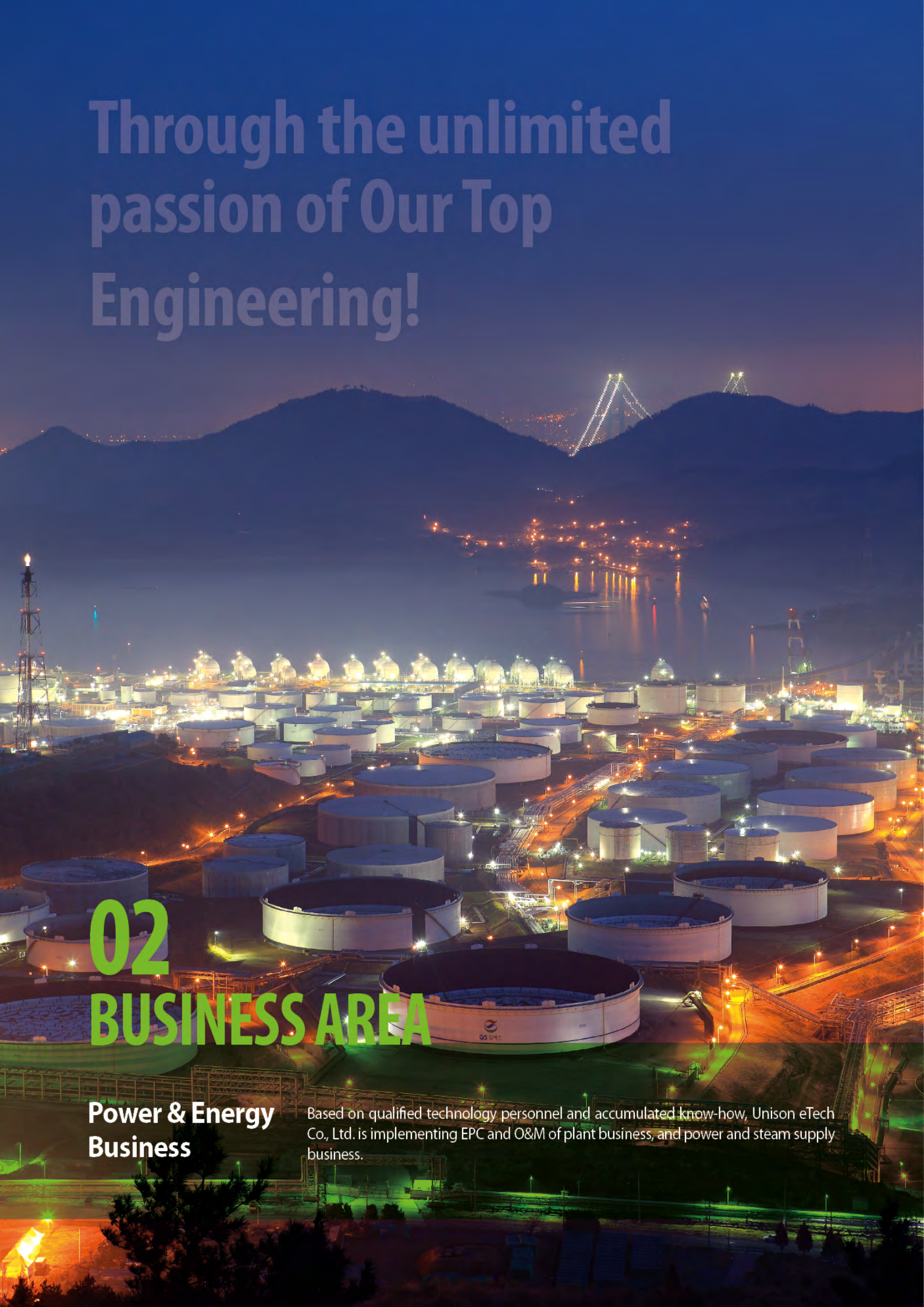
- Damper that is used to control the flow of vapors such as air or exhaust gas by controlling the angle of a blade
- structure in which blades are open in opposing directions

#### ON-OFF DAMPER

- Shielding-oriented damper
- Structure in which blades are open in the same direction or in parallel

**Unison eTech**, which is approved by customers for its design capability that is optimized through 3D modeling and finite element analysis, is advancing toward the world market in a spirit of innovation and challenge.



A nighttime photograph of a large industrial facility, likely a refinery or petrochemical plant. The foreground and middle ground are filled with numerous large, cylindrical storage tanks, many of which are illuminated from within, casting a warm glow. A network of pipes and walkways crisscrosses the site. In the background, a large suspension bridge is visible, its lights reflecting on the water. The sky is dark, and the overall scene is a mix of industrial activity and natural landscape.

# Through the unlimited passion of Our Top Engineering!

## 02 BUSINESS AREA

### Power & Energy Business

Based on qualified technology personnel and accumulated know-how, Unison eTech Co., Ltd. is implementing EPC and O&M of plant business, and power and steam supply business.



## Power and Energy Business

### About Company

Based on accumulated know-how of plant business, Unison eTech Co., Ltd. is implementing an integrated EPC business including development, design, supply, and construction of various plants and power plants, both domestic and foreign, and is providing best services to our customers in linkage with ESCO and other support businesses while implementing supply of bio fuel, which is an eco-friendly energy business, and eco-friendly power generation business related to it.



### Business Area



Consulting & Project Development

#### Proposing Customized Projects

- Feasibility review
- Load analysis, resource survey
- Fuel supply consulting
- Economics review



EPC

#### Designing Optimum System

- System design
- Basic design

#### Responsible for construction

- Plant / Power plant construction
- Trial run & construction supervision



Operation & Maintenance

#### Plant Facility Operation / Maintenance

- Replacement of major equipment and facilities
- Design for facility improvement
- Technological support for customers
- Maintenance work

Top expert technology that supports the world and maintains the safety

# UTMOST EXPERT TECHNOLOGY



## 03 BUSINESS AREA

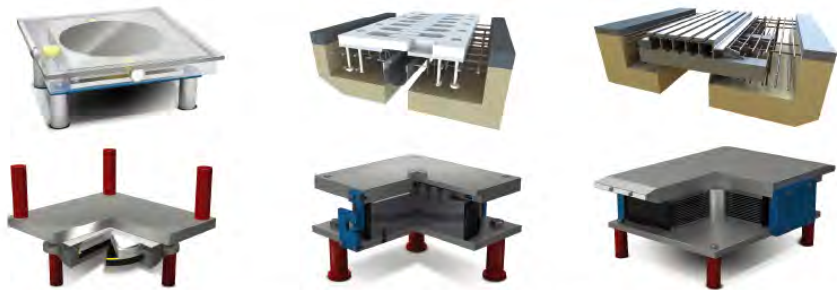
### **Construction Business**

We implement design and construction of vibration isolation and vibration control of public works, bridge bearings, and architecture through top expert technological know-how of Korea for design and construction of public works and bridge products.



## Bridge & Construction Part

### Bridge & Construction Products



The first and the best quake-resistant, vibration isolation, vibration control bearings for bridge and construction of 30 year history in Korea are products that **play an important role as a safety apparatus by itself that prevents destruction and damage of structures to the maximum** by preventing energy generated by the weight between the ground and structures or between upper structures and lower structures, movement of expansion and contraction, deformation, friction, or an earthquake from being delivered to structures or by lengthening the fundamental period of structures.

**Unison eTech Co., Ltd.** possesses No. 1 technological capability and supply record in Korea in the field of bridge parts. We provide a total solution encompassing basic design of bridges, quake-resistant and vibration control system design, construction and after service from **Korea's best technology team.**



### Soundproof Wall

We provide technologies for noise interpretation and prediction and, in the case of soundproof tunnel, **structural safety review of structures, fail-proof construction, and after-service.**



## Major Project History

### Plant Business Domestic Projects

#### POWER PLANT

- Yangju Combined Cycle Power Plant
- Boryeong Thermal Power Plant
- Yeongheung Thermal Power Plant
- Dangjin Thermal Power Plant
- Oseong Combined Cycle Power Plant
- POSCO Incheon Combined Cycle Power Plant
- Hyundai Green Power Combined Cycle Power Plant
- Paju Combined Cycle Power Plant
- YeongWol Thermal Power Plant
- Yeosu Thermal Power Plant
- Bugok Combined Cycle Power Plant
- Namyangju Byeolnae Combined Cycle Power Plant
- Taean Thermal Power Plant
- Seochon Thermal Power Plant
- Samcheonpo Thermal Power Plant
- Hadong Thermal Power Plant
- Sinboryeong Thermal Power Plant
- Dongducheon Combined Cycle Power Plant
- Ansan Combined Cycle Power Plant
- Bukpyeong Thermal Power Plant
- Pocheon Combined Cycle Power Plant
- Jangmun Combined Cycle Power Plant
- Samcheok Greenpower Power Plant

#### FPSO/REFINERY

- 6049 CLOV FPSO
- Yecheon NCC Furnace Project
- LG Daesan NCC 2nd Revamping
- 6045 PAZFLOR FPSO
- S-OIL Onsan REFINERY PROJECT
- S-OIL ALKYLATION PROJECT
- 6054 FPSO

#### NUCLEAR

- Sinwolseong Nuclear Power Plant
- Singori Nuclear Power Plant
- Hanbit Nuclear Power Plant
- Wolseong Nuclear Power Plant
- Gori Nuclear Power Plant
- Uljin Nuclear Power Plant
- Hanul Nuclear Power Plant

### Plant Business Overseas Projects

#### POWER PLANT

- YANBU BOILER PROJECT (SAUDI)
- QURAYYAH CCPP PROJECT #1~#18 (SAUDI)
- RABIGH 2 POWER PLANT PROJECT (SAUDI)
- SUR INDEPENDENT POWER PROJECT (OMAN)
- IEC ADD ON HRSG PROJECT (ISRAEL)
- NEW HARIPUR PROJECT (INDIA)
- MONG-DUONG II PROJECT (VIETNAM)
- NORTE II CCGT POWER PLANT PROJECT (MEXICO)
- ROTEM CCPP PROJECT (ISRAEL)
- RAIPUR PROJECT (INDIA)
- AIN SOKHNA PROJECT (EGYPT)
- BARKAH III HRSG PROJECT (OMAN)
- TOUL HRSG PROJECT (FRANCE)
- MARAFIQ #5/6 STG PROJECT (SAUDI)
- AL QATRANA PROJECT (JORDAN)
- HERON HRSG PROJECT (GREECE)
- SHUWEIHAT HRSG PROJECT (UAE)
- ANGAMOS PROJECT (CHILE)
- CAMPICHE PROJECT (CHILE)
- CEBU #1/2 PROJECT (PHILIPPINES)
- MISURATA & BENGHAZI PROJECT (LIBYA)
- TOLEDO PROJECT (PHILIPPINES)
- OMV BRAZI HRSG PROJECT (ROMANIA)
- WASIT COGEN PKG #3 (SAUDI)
- SHAYBAH PKG #3 (SAUDI)
- PP10 CCPP PROJECT (SAUDI)
- PP12 CCPP PROJECT (SAUDI)
- INTERGEN HRSG (MEXICO)
- AZITO (TRINIDAD & TOBAGO)
- TRIPOLI WEST (LIBYA)
- MOROCCO SAFI (MOROCCO)
- MALAYSIA FAST TRACK 3A (MALAYSIA)
- VINH TAN 4 PROJECT (VIETNAM)
- MA'ADEN PROJECT (SAUDI) - Petro Chemical
- KIRIKKALE (TURKEY)

#### FPSO/REFINERY

- YANBU EXPORT REFINERY PACKAGE 4 (SAUDI)
- SABAH OIL & GAS TERMINAL PROJECT (MALAYSIA)
- NEW BOOSTER STATION 132 PROJECT (KUWAIT)
- RUWAI REFINERY EXPENSION PACKAGE #1, #3 (UAE)
- JUBAIL EXPORT REFINERY 5B, #3 PROJECT (UAE)
- KAYAN LDPE PROJECT (SAUDI)
- HABSHAN 5 U & O PROJECT (UAE)
- PTTAR CLEAN FUEL PROJECT (THAILAND)
- UMM SHAI'F PROJECT (UAE)
- SHAH GAS U&O PROJECT (UAE)
- SHAYBAH PKH #1, #2, #4 (SAUDI)
- LAFFAN PROJECT (QATAR)
- FSO/REFINERY-KNPC CFP MAB 1/2 PROJECT (KUWAIT)
- BADAMYAR (MYANMAR)

#### NUCLEAR

- BARAKAH NUCLEAR POWER PLANT PROJECT (UAE)
- JORDAN JRTR PROJECT



## Construction Business

### Expressway / Highway

- Yongin-Seoul Expressway
- Incheon-Gimpo Expressway
- Gangnam Beltway
- Jumunjin-Sokcho Highway
- Donghongcheon-Yangyang Highway
- Seongnam-Janghowon Highway
- Sangju-Yeongduk Highway
- Adm. City-Jeongan IC Highway
- Mokpo Beltway
- Seosan Beltway
- Donghae-Samcheok Highway
- Yeosu IC-Janghowon Highway
- Singal-Suji Highway
- Bukchujingju-Gigeum Highway
- Eumseong-Chungju Highway
- YeongwolJungdong Beltway
- Paltanbukbu Beltway

### Building/Architecture Vibration Isolation

- Adm. City Government Bldg.
- LG CNS Data Center
- SiheungBaegot District
- Nonghyup IT Center new construction
- KDB Industrial Bank
- CNS Busan Maeum District
- Incheon LNG terminal
- GimpoGochon Apartment
- POSCO R&D Center construction
- Busan NamcheondongExilu Tower

### Railway

- Hovertrainmodel route construction
- Daegu Urban Railway Line #3
- Gyeongbu Express Railway
- EuijeongbuHovertrainconstruction
- Boseong-ImseongriSection 7 construction
- Bujeon-Masan Section 3, 4 construction

### Soundproof Wall

- Jukjeon site Section 1 construction soundproof tunnel construction
- New National Highway #43 open soundproof construction
- Imhak Subway entrance/exit soundproof tunnel construction
- Yongin-Seoul Private Capital Expressway construction (Section 4)
- Seosuwon-Osan-Pyeongtaek Private Capital Expressway construction (Section 3)
- Naju-Donggang&Jeongeup-Sintaein
- Seongnam-Yeosu construction (Section 6)

### Others

- USAG Humphreys noise reduction construction
- Yeosu Sandan construction
- Yeongsan River downstream dike construction
- Daejeon Doan New City housing site development project
- Han River reviving project
- Gangwon Innovation City urban facilities construction
- Sihwa MTV construction
- Andong Dam emergency spillway construction

### OVERSEAS PROJECTS

- Sheikh Jaber Al – Ahmad Al – Sabah Causeway project(Main link)
- Off shore part
- Sheikh Jaber Al – Ahmad Al – Sabah Causeway project(Main link)
- On shore part
- Sheikh Jaber Al – Ahmad Al – Sabah Causeway project(Doha link)
- Cao Lanh Bridge
- Causeway Mainlink
- An-Dong Bridge(LRB,POT)
- IZMIR LNG Tank(Seismic isolator)
- Taiwan High-speed Rail C230
- Van may 2 and Mat trat Bridge
- Binh Loi Bridge
- TCDY PJT
- Vam Cong Bridge(Approach)
- Bolivia Banegas Bridge
- Ajara bypass roads development project
- IZMIR LNG Tank(Seismic isolator)
- Taiwan High-speed Rail C230
- Van may 2 and Mat trat Bridge
- Binh Loi Bridge

### EPC & Construction Record

- CHONG KUN DANG-ARIM ENERGY / STEAM SUPPLY PIPELINE CONSTRUCTION
- POSCO #2
- HYUNDAI STEEL AND REGULAR MAINTENANCE SAFE PRODUCTION FACILITIES INSTALLATION
- LG CHEMICAL VCM T/A PSV REMOVABLE & PLUBING
- HYUNDAI OILBANK GYMNASIUM EXPANSION MANUFACTURE & INSTALLATION OF STEEL
- STRUCTURE
- DANGJIN POWER PLANT #9,10 DAMPER, FAN INSTALLATION
- GAS UTILITY PROJECT(UZBEKISTAN)
- SP-4 TANKAGE
- POSCO #2/3 EP
- BOILER PROJECT
- LNG TERMINAL TANK
- GORO #4 PROJECT

## EPC & Construction Record

## R&D

New technologies developed by Ph. D's and Masters, Excellent company with competitiveness of original technology, more than 5% R&D investment of gross sales for a recipient company of Korea Quality Grand Prize, New technology (NET) certification, Possessing core intellectual property rights in diverse fields

### Current Status of Main R&D Record

Program Name (Department/Organization)	Period of Development (start date/The end)	Tast Name
Korea Aviation Industries	2006.11~2008.12	KHP Helicopter Development – Bearing, Damper Design and Manufacture, Base & Key Research
SMB Administration	2008.06~2010.05	SMB Technology Innovation Development Project Agreement (Bridge part development using vibration-proof rubber with reduction characteristics of noise and vibration)
Korea Industrial Promotion Agency (Part & Material)	2008.07~2009.06	Part and Material Reliability Based Technology Expansion Project (Service life improvement of finger-type expansion/contraction joints for bridges)
Ministry of Land, Transport and Maritime Affairs	2009.10~2010.05	Vibration Isolation Damper Facility Development for Reinforcing Steel Pipe Head
SMB Administration	2010.06~2011.05	Vibration Control System Development for Improving Quake-proof Performance of Construction Structures
Hyundai Heavy Industry	2010.12~2011.07	Spring Support System Development of Storage Tank for Ship
Ministry of Knowledge Economy	2011.07~2016.06	Vibration Isolation System Application Technology Development for Export-type Nuclear Power Plant (Localization of Vibration Isolation Apparatus for the Structure of Nuclear Power Plant)
Korea Railroad Research Institute	2012.03~2012.12	A Research on Manufacturing Standard Management of Monorail PSC Track Beam (L=30m)
Korea Atomic Energy Research Institute (KAERI)	2012.04~2012.06	Korea Atomic Energy Research Institute Test Service (Rubber Bearing ISO STD Scale Test and Material Test)
KAERI	2013.02~2014.05	Rubber Material and Long-term Performance Test of the Apparatus
KAERI	2013.02~2013.05	Lead Rubber Bearing Manufacture and Basic Characteristics Test
SMB Administration	2013.03~2014.02	Development of Rubber Bearings for Structure
SMB Administration	2014.03~2015.02	Development of Low Hardness Rubber Bearing and High Damping Rubber Bearings
SMB Administration	2015.03~2016.02	Development of Laminating Rubber Bearing for Architecture and Rubber Material

### Current Status of Industrial Property Right Management (69 Patents, 5 Utility Models, 19 Designs, and 6 Trade Marks)





## Quality & Assurance

2008 Korea Green Energy Excellent Company Grand Prize, National Quality Management Grand Prize the Presidential Award received 3 years in a row, Quality Group Award received 3 years in a row.

We proceed with **top quality** management based on **corporate reliability** and in consideration of **customer value** more than anything else.





#### Main Office & Plant

Ugakgol-gil 53, Susin-myeon, Dongnam-gu, Cheonan-si, Chung Nam  
TEL : 041-620-3333 FAX : 041-551-0706

#### (UET & HKR) Seoul Office

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TEL : 02-6947-5519 FAX : 02-6947-5510

#### Yeongnam Office

12 an-gil 27, Dong daegu-ro, Suseong-gu, Daegu Metropolitan City (996-10 Jisan-dong)  
TEL : 053-768-8754~5 FAX : 053-767-8754

#### Honam Office

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TEL : 062-371-7737-8 FAX : 062-371-7739

[www.unisonetech.co.kr](http://www.unisonetech.co.kr)

#### HKR Co., Ltd.

(Pyeongtaek Plant) 16beon-gil20,Sandan-no, Pyeongtaek-si, Gyeonggi-do  
TEL : 031-665-2111 FAX : 031-665-7949

(Cheonan Plant) Ugakgol-gil 53, Susin-myeon, Dongnam-gu, Cheonan-si, Chung Nam  
TEL : 041-620-3333 FAX : 041-551-0706

#### HKR Vietnam Co., Ltd.

B-11A-CN. MY PHUOC INDUSTRIAL PARK 2, BEN CAT, BINH DUONG  
TEL : 001-84-650-335-6612 FAX : 001-84-650-355-6614

[www.hkr.co.kr](http://www.hkr.co.kr)