



Creating a better future  
**Global Leader**

DEFINING GLOBAL LEADER HYUNDAI HEAVY INDUSTRIES



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DEFINING **GLOBAL LEADER**



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The Infinite  
Advances to Innovation

As the global leader in shipbuilding industry, Hyundai Heavy Industries (HHI) has built its core values through numerous accomplishments and advanced technologies that could only be achieved through years of research and experience.

Our Company's initiative and mindset have served as the backbone to global leadership in the shipbuilding industry, and HHI is continuously moving towards a bright future. Like the courageous sailor navigating through the ocean, we will endlessly strive towards a goal that no one has achieved in the past.

# HYUNDAI HEAVY INDUSTRIES WORLD RECORDS

Since 1972

## Defining Global Leader

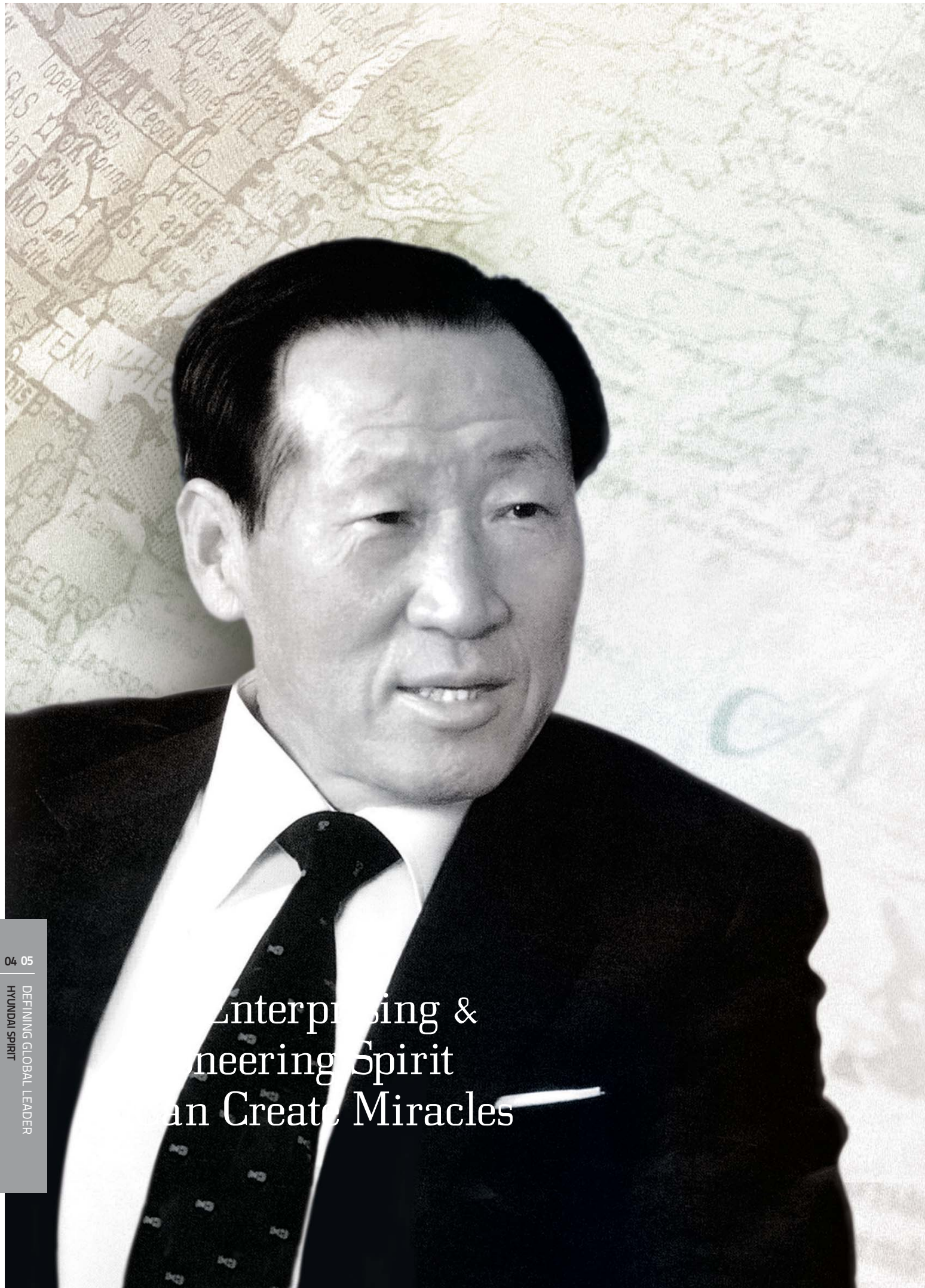
HYUNDAI HEAVY INDUSTRIES

Hyundai Heavy Industries has grown as the world's leading premier shipbuilder by providing a competitive skill set through pioneering spirit. Additionally, HHI's broad knowledge that has built upon our experience has allowed us to lead the heavy industries market and to contribute to Korea's economic development. HHI is displaying its global presence through cutting-edge technology and indomitable records, and is creating a new paradigm in heavy industries.



1986	1989	1992	2006	2007	2007	2010	2010	2011	2012
365,000 DWT	40,000 TONS	10 MILLION	107.6 TONS	108,920 BHP	216,000 m <sup>3</sup>	100 MILLION BHP	2.0 MILLION BBL	23,600 TONS	100 MILLION GT
Built World's Largest Cargo Ship 365,000 DWT Bulk Carrier (Berge Stahl)	Produced the World's Largest One-Unit Jacket for Exxon (118 m x 91 m x 375 m)	Set Guinness World Record for Most Visitors to a Company 10 million visitors as of June, 1992	Produced the World's Largest Propeller 107.6 tonnes, 6-blade propeller	Produced the World's Most Powerful Ship Engine 108,920 bhp marine engine (8,600 TEU containership)	Built the World's Largest LNG Carrier 216,000m <sup>3</sup> LNG Carrier for Overseas Shipholding Group (OSG) (315 m x 50 m x 27 m)	Achieved 100 million bhp production in 2-stroke marine engines	Built the World's Largest FPSO Usan FPSO for French Supermajor Total (320 m x 61 m x 32 m)	Lifted World's Largest Offshore Platform North Rankin 2 Project (100 m x 50 m x 80 m / Weight: 23,600 tonnes)	Records 100 million Gross Tonnage in Ships





## Enterprising & Pioneering Spirit Can Create Miracles

***Creative Wisdom** With a future-oriented perspective, we have met the changing needs of our clients, and will continue to do so by applying our experience, intelligence, and creativity. We are dedicated to developing new technologies to improve the quality of life throughout the global community and into the future.*

***Positive Thinking** The remarkable growth and prosperity of our company is due to the commitment of HHI's employees. Once committed to an idea, we have the ability to transform that idea into reality. In this ever more competitive world, our commitment to providing quality products to our clients will give us an edge over our competitors.*

***Unwavering Drive** Our dedication is driven by our enthusiasm. The quality of our products and services is a direct reflection of our unceasing determination and hard work. We will continue to take on new challenges and find new ways to improve our products and services.*

The success or failure of any venture depends on the attitude and outlook of those involved. We have achieved technological advancements that were considered theoretically and scientifically impossible. These accomplishments were the result of an enterprising and pioneering spirit dedicated to hard work and diligence. The source of these abilities is the mind.

Conviction can inspire extraordinary efforts. An enterprising spirit is the key to performing miracles. I have tackled projects thought to be beyond human capability and my motivation is the satisfaction of seeing those projects succeed.

Founder **Chung Ju-yung** (1915 - 2001)





*“ We will continue to honour valued relationships and offer our clients the best products and services. ”*

Since our establishment in 1972, Hyundai Heavy Industries has overcome numerous challenges while maintaining a leading position in the global shipbuilding industry. Today, HHI stands as a full-fledged heavy industries company with seven business divisions. The 21st century requires a new vision. Global markets are opening and boundless competition defines this new era.

We meet this new era with high expectations of consolidating our leadership position in our core business fields. We are restructuring our business for future growth by expanding into high-tech fields including new and renewable energy development. We will also continue to improve the technology and quality of our mainstream products. We value the mutual trust and understanding that we have established with our business partners throughout the world. We will continue to honour these precious relationships and offer our clients the best products and services.

To our  
Global Business  
friends

*Yours sincerely,*

Lee Jai-seong President & CEO



# DEFINING GLOBAL LEADER BUSINESS PORTFOLIO



Hyundai Heavy Industries took the impossible dream of shipbuilding in Korea and became the global leader in this industry “With the founding philosophy of creative wisdom, positive thinking, and unwavering drive, we will continue to reinforce our competitiveness and innovation to build a better future”





### Main Products

Tankers	Roll-on/Roll-off Ships
Product Carriers	Naval & Special Ships
LNG/LPG Carriers	Passenger Ships
VLOO Carriers	High-speed Ferries
Containerships	FPSO
Pure Car Carriers	Drillships
Bulk/OBO Carriers	LNG FSRU



Hyundai Heavy's shipyards have continuously been developed since the founding in 1972 and are now placed firmly at the forefront of the global shipbuilding industry. We owe our rapid growth and success to our skilled workmanship, advanced facilities, and heavy involvement in technology development. These advantages have enabled Hyundai Heavy to build the best ships economically and on schedule.

HHI's Shipbuilding Division will continue to build ships of exceptional quality and provide dedicated customer service while maintaining sound growth in the global maritime industry through our quality-oriented management.



Leading the Global Market 

# SHIPBUILDING



As a leading shipbuilder, HHI has delivered more than 1,800 ships of over 165 million DWT to 274 shipowners from around the world.



#### ADVANCED FACILITIES

HHI's Ulsan shipyard is equipped with the most advanced facilities, from fully automated steel-cutting lines to environmentally friendly painting shops. With a high level of automation and new production technologies ranging from off-line welding robots and indoor production of 40 m-long blocks to two-component proportioning system in painting, HHI offers a number of advantages-greater productivity gains, reduced building time, and, above all, superb ship quality. HHI is your ideal shipbuilding partner.





# NAVAL & SPECIAL

## Shipbuilding Division

### AN EXPERIENCED BUILDER of NAVAL & SPECIAL VESSELS

Hyundai Heavy Industries is an experienced naval shipbuilder. We have built a variety of modern sophisticated naval and auxiliary service vessels since 1975, when the Korean Ministry of National Defense chose HHI to design and build the Ulsan-class frigates. The Naval and Special Shipbuilding Division (NSSD) was entrusted with this special commission to build Korea's first indigenous warships because of their specialized human resources and modern streamlined facilities.

As a licensed national defense industrial shipbuilding company and engineering consultant, NSSD has the advanced technology necessary to design and build reliable modern naval ships and auxiliary service vessels of various hulls. With round-the-clock intensive R&D activities, HHI is ready to provide clients with comprehensive services from initial feasibility studies for top-level requirements to integrated logistics support and lifetime after-sales service.

### Main Products

- Destroyers
- Frigates
- Submarines
- Corvettes
- OPV
- IPV
- FAC
- Logistic Support Vessels (AO & AOE)
- Service Vessels
- Advanced Hulls
- Passenger Car Ferries

### Scope of Services

- Design & Engineering
- Construction & Trial
- Integrated Logistics Support
- Combat System Integration
- Training & Technical Assistance





# OFFSHORE & ENGINEERING

Going beyond Horizons

## 1976-1990

Starting from fabrication of small size offshore platforms, HHI's Offshore & Engineering Division has grown to be an industry-leading, world class offshore facilities fabrication yard equipped with advanced yard facilities, skillful labor force, and efficient construction management systems. The yard has performed various offshore facility projects including conventional fixed platforms-off-shore installation and submarine pipelaying.

## 1991-2012

The Offshore & Engineering Division has expanded and developed into a fully integrated Engineering, Procurement, Construction, Installation (EPCI) and project management contractor. We have already completed more than 170 projects including 100 EPCI projects for the oil & gas industry. The range of services covers FPSO, FPU, Semi-submersibles, Jack-ups, TLPs, Fixed platforms, Subsea pipelines, Marine terminals, and Land-based process facilities.

## The Future

Backed by accumulated experience and technology developed through the successful execution of various types of EPCI projects, HHI's Offshore & Engineering Division pursues further growth in the oil & gas industry as an indispensable partner. Our goal is to provide clients with a comprehensive, cost-effective solution to meet their integrated field development plans.







KIZOMBA A AND B FPSO FOR EXXONMOBIL IN ANGOLA

Hull Dimensions	285 m(L) x 63 m(W) x 32 m(D)
Total Weight	81,000 tonnes
Oil Production Treatment	250,000 BOPD
Gas Compression	400 MMSCFD
Oil Storage	2.2 million bbl
Living Quarters	100 persons
Water Depth	1,200 m



PLUTONIO FPSO FOR BP IN ANGOLA

Hull Dimensions	310 m(L) x 58 m(W) x 31 m(D)
Total Weight	87,900 tonnes
Oil Production Treatment	200,000 BOPD
Oil Storage	2.0 million bbl
Living Quarters	120 persons
Water Depth	1,000 m



USAN FPSO FOR TOTAL IN NIGERIA

Hull Dimensions	320 m(L) x 61 m(W) x 32 m(D)
Total Weight	114,092 tonnes
Oil Production Treatment	160,000 BOPD
Gas Compression	5.1 MMSCMD
Oil Storage	2.0 million bbl
Living Quarters	180 persons
Water Depth	750 m



GOLIAT FPSO FOR ENI NORGE AS IN NORWAY

Hull Dimensions	ø 112 m x 75 m (Cylindrical Shape)
Total Weight	52,916 tonnes
Oil Production Treatment	100,000 BOPD
Gas Compression	400 MMSCMD
Oil Storage	1.0 million bbl
Living Quarters	120 persons
Water Depth	400 m



FPSO  
Floating Production Storage & Off-Loading

Since 1996 with two EPC contracts from Petrobras for the conversion of P-33 & P-35 FPSO, HHI has delivered 10 FPSO to clients, including the recent Goliat FPSO with a storage capacity of 2.0 million bbl of oil for Total and Kizomba FPSO project for ExxonMobil having a 2.2 million barrel capacity.

Floating Units Fixed Platforms Pipeline & Subsea Facilities Land-Based Modular Plant Fabrication

FPSO  
FLNG  
FPUs  
TLPs  
Spars  
Semi-submersibles

Topsides  
Jackets  
Piles  
Modules  
Quarters

Subsea Pipelines  
Offshore Installations  
Subsea Templates  
Onshore Pipeline Manifolds

Offshore & Onshore Module  
Onshore LNG Module





# SEMI-SUBMERSIBLE UNITS

Since 1982, HHI has delivered 10 semi-submersibles, including rigs and hull structures, to various international companies. HHI designs and executes a construction plan that allows semi-submersible rigs to be fabricated on the ground in HHI's offshore fabrication yard instead of the traditional construction in drydocks. HHI successfully completed the semi-submersible drilling vessel, "Deepwater Nautilus" for R&B Falcon in 2000. In 2002, HHI completed Shell's Na Kika Floating Production Unit. It is 92 m(L) x 81 m(W) x 70 m(H) and has a total weight of 31,247 tonnes with a 13,000 tonne topside and an 18,000 tonne hull. During the construction process, HHI was certified by Guinness World Records for mounting the 12,112 tonne topside on the hull of the FPU by lifting it 53m above the ground.

**Derrick cum Lay Barge HD-2500**  
(2,500 S.Tonnes Lifting Capa./60" Max O.D)

**Derrick cum Lay Barge HD-60**  
(1,800 S.Tonnes Lifting Capa./60" Max O.D)

**Derrick Barge HD-1000**  
(1,000 S.Tonnes Lifting Capa.)

**Semi-submersible Lay Barge HD-423**  
(750 S.Tonnes Lifting Capa./66" Max O.D)

**Shallow Draft Lay Barge HD-289**  
(Operation. Draft 3.7m/48" Max O.D)



# FIXED PLATFORMS

Modern construction facilities and advanced technology enable HHI to provide any type of topside module, living quarters, and sub-structure for offshore fixed platforms on a turnkey basis.

# OFFSHORE FACILITY INSTALLATION

HHI provides a variety of construction services for the installation of all types of offshore facilities on offshore fixed platforms and subsea pipelines, using its own modern construction fleet with a wide range of equipment, and cutting-edge construction methods.

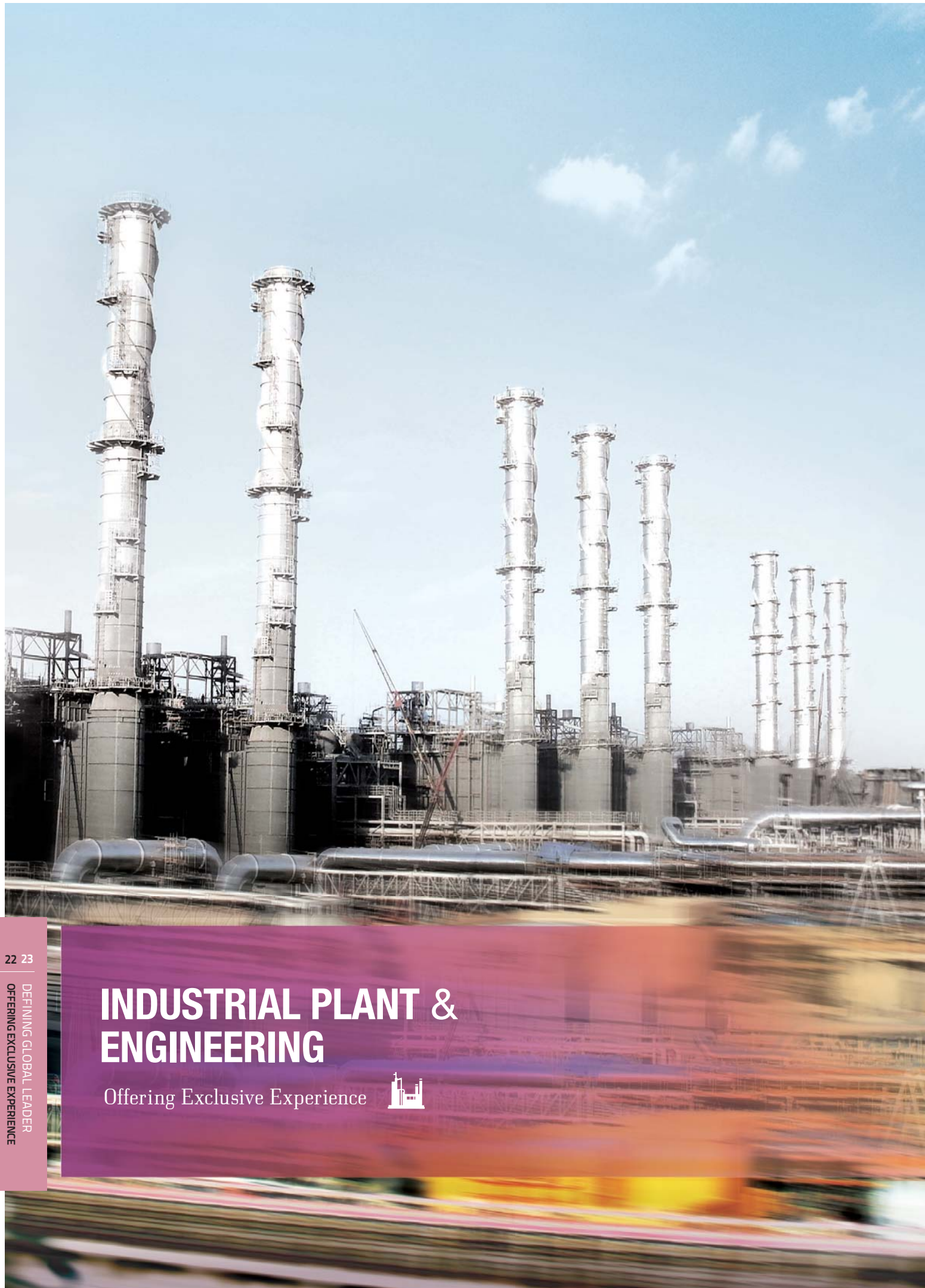
# LAND-BASED MODULE FABRICATION

Demand for natural gas will steadily increase in line with the global trend for clean energy policies. The many planned oil & gas treatment facilities, which include LNG development projects, are opportunities for HHI to participate in projects such as land-based module fabrications. Taking into account HHI's yard capacity and extensive experience in oil & gas platforms and FPSO projects, this presents a great business area expansion opportunity for HHI.

With qualified experts and well-equipped fabrication facilities, HHI successfully completed and delivered the Sakhalin-1 OPF (Onshore Processing Facility) for ENL (Exxon Neftegaz Limited), which gave the contract award in March 2005. More recently, HHI was awarded the contract to fabricate Chevron's Gorgon LNG Plant Module in Australia weighing over 198,675 tonnes.







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DEFINING GLOBAL LEADER  
OFFERING EXCLUSIVE EXPERIENCE

# INDUSTRIAL PLANT & ENGINEERING

Offering Exclusive Experience



## Main Products

Thermal Power Plants  
Combined Cycle Power Plants  
Co-generation Plants  
Oil & Gas Plants  
LNG Liquefaction  
Refineries  
Petrochemical Plants

## One-Stop Solution

HHI's Industrial Plant & Engineering Division has 38 years of extensive experience in industrial plant projects. HHI provides sophisticated engineering capabilities for oil & gas plants, process plants, and power plants and carries out all phases of project implementation including engineering, procurement, fabrication, construction, test, commissioning, and training on a turn-key basis. The division's core business activities are EPC of oil & gas production facilities, gas processing plants, LNG liquefaction, refineries, petrochemical plants, thermal power plants, combined cycle power plants, cogeneration power plants, and process equipment. The division is an accredited EPC contractor for industrial plant projects and efficiently provides the best products and services. Hyundai means modern in Korean, and as a key member of the world's most dynamic and progressive business group, we are ready to assist you in your future ventures.





## COVERING A WIDE RANGE OF INDUSTRIAL PLANT PROJECTS

HHI performs all aspects of industrial plant projects including engineering, procurement, and construction on a turnkey basis. Thanks to a market-proven track record, HHI has earned a reputation as a reliable contractor with highly skilled personnel, advanced technology, and a future-and people-oriented business philosophy.

### COMBINED CYCLE POWER PLANT

HHI has advanced technical knowledge and decades of experience in the turnkey construction of thermal power plants and co-generation plants. This has allowed us to become a reliable turnkey contractor for combined-cycle power plant.

### THERMAL POWER PLANT

HHI performs the complete range of activities for thermal power plants ranging from feasibility studies, design & engineering, procurement, manufacturing of major equipment, supply, erection & construction, test & commissioning, and operation to maintenance & warranty service.

### CO-GENERATION PLANT

HHI has built 23 co-generation plants in Korea and around the world. With our comprehensive engineering capabilities, HHI offers the most competitive and technologically advanced co-generation systems to clients around the world.



### OIL & GAS PROCESSING PLANT

HHI is a well respected experienced provider of a full range of EPC services for oil & gas processing facilities including oil transportation pipelines, onshore processing plants, oil & gas treatment facilities, liquefied natural gas (LNG) plants, and gas-to-liquids (GTL) plants.

### LNG PLANT

We provide total engineering, procurement, fabrication, construction, commissioning, operating, and training solutions for a wide variety of LNG plants, LNG receiving terminals, and land storage tank farms. HHI is focused on becoming a key player in the LNG plants market. We are determined to establish a reputation as the No. 1 contractor for LNG terminals and related facilities based on our unparalleled expertise.



### REFINERY PLANT

HHI provides a full spectrum of services associated with construction, expansion and upgrade of various refineries and is uniquely configured to the specifics of raw materials on various refinery configurations in the international markets. Capabilities include CDU/VDU, Delayed Coking, Hydrocracking, Atmospheric Residue Desulfurization, and Fluid Catalytic Cracking.

### PETROCHEMICAL PLANT

We have thorough experience in engineering, procurement, construction and commissioning of numerous types and configurations of petrochemical plants. The division is building its reputation based on the ability to provide in a timely manner sophisticated engineering, specialized equipment, and highly-skilled staff while delivering superior quality.

### PROCESS EQUIPMENT

We are concentrating our efforts on the development of specialised plant equipment for the heavy and chemical industries. We have a maintained highly qualified workforce and project management know-how accumulated through the execution of numerous projects, including ethylene plants, refineries, RFCC plant, EO/EQ plants, and BTX plants. We will continue to enhance our abilities to address the sophisticated requirements of our clients, while also building our reputation as a company with high- quality, high-performance products.





# ENGINE & MACHINERY

Developing Tomorrow's Engine

## Main Products

Marine Engines & Equipment  
Power Plants  
Hydraulic Machinery  
Robot & System



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DEFINING GLOBAL LEADER  
DEVELOPING TOMORROW'S ENGINE

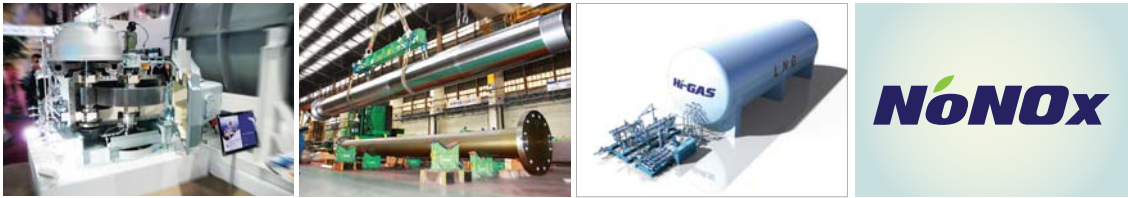
The world's leading engine builder, the Engine & Machinery Division has a 35% (≥50 Bore Engine) of the world's diesel engines with casting, forging, advanced machining shop, assembly, and shop performance test facilities. HHI-EMD has played a pivotal role in improving our competitiveness by manufacturing propellers & shafts and supplying shipbuilding companies since it produced its first marine engine in 1979. In 2010, HHI achieved the unprecedented milestone of 100 million BHP in marine engines.



Global Leader [www.hyundaiheavy.com](http://www.hyundaiheavy.com)







## MARINE ENGINES & EQUIPMENT, POWER PLANTS

### 2-Stroke Diesel Engines

### 4-Stroke HiMSEN Engines

Diesel Engines  
Gas Engines  
Dual Fuel (DF) Engines

### Marine Propulsion System

### Propellers, Shafts, Rudder Stocks

### Engine Components

Crankshafts  
Cylinder Liners

### Marine Eco Machinery

Hyundai Integrated Gas Supply System (Hi-GAS)  
Selective Catalytic Reduction (SCR)System (NoNOx)



### Power Plant Applications

Stationary Diesel Power Plants  
Packaged Power Stations  
Gas Engine Power Plants  
Pre-Fabricated Power Plants  
Barge-Mounted Diesel Power Plants  
Emergency Diesel Generator  
(EDG) for Nuclear Power Plants



Since HHI successfully completed the 115 MW class diesel power plant in 1985, HHI has delivered 1,404 engines for diesel power plants to 146 sites in 36 countries. We have expanded our activities in the diesel power generation sector and are playing a leading role in the global power market.

HHI has completed diesel power plants throughout the world as a turnkey contractor, including a 200 MW diesel power plant in India, the world's largest power plant using a diesel engine as its prime mover. Based on advanced technology accumulated through cutting-edge research & development, HHI offers the advanced HiMSEN 4-stroke medium-speed engines: H17/28(E,U), H21/32, H25/33(V), H32/40(V), and H46/60V for diesel power plants; H17/24G and H35/40GV for gas engine power plants. Using the HiMSEN engine and its creative power system engineering capabilities, HHI developed a containerized Packaged Power Station (PPS) designed for continuous operation under a baseload with HFO or DO. This power station is designed to provide continuous power in adverse conditions. Safety, lower emissions, reliability, lower O&M costs, and a considerably longer lifetime are the leading qualities of the PPS. The Hyundai HiMSEN 4-stroke medium-speed engine provides an efficient and reliable power system that promises years of trouble-free operation. Heavy-duty sound attenuated containers and simple layouts guarantee quiet and simple operation. These exceptional features, combined with HHI's technical background and support, make the PPS the first choice for all power plant clients.





# HYDRAULIC MACHINERY / ROBOT & SYSTEMS

## From Basic Pumps to Cutting-edge Robotics Technology



### INDUSTRIAL & MARINE PUMPS EQUIPMENT

HHI's major products consist of circulating water, boiler feed-water, feed-water boosters, condensate and seawater lift pumps for thermal and nuclear power plants, brine recycling, sea water intakes, brine blow down, distillate, tempering and public water pumps for desalination plants, cooling water and transfer pumps for petrochemical plants, drainage pumps for flood control, irrigation, intake service and boosting pumps for water supply projects, dry dock dewatering pumps, air & gas compressor and reduction gear.

#### Hydraulic Machinery & Equipment

Pumps (Thermal & Nuclear Power Plants, Desalination Plants, Petrochemical Plants, Flood Control, Irrigation & Water Supply Projects, Drydocks, Cargo Oil Pumping Systems, Submerged Cargo Pumping Systems)

Side Thrusters  
Azimuth Thrusters  
Ballast Water Treatment Systems  
Steam Turbines  
Gas Turbines  
Turbochargers  
Gas Compressors & Air Compressors  
Marine Gear Boxes  
HiMSEN Water-jet Propulsion System

### INDUSTRIAL MACHINERY SYSTEMS

Since 1983, HHI has supplied many innovative, high-quality presses, conveyor systems, and strip process lines with reliable service based on proven experience in engineering and manufacturing industrial machinery systems for the automobile and steel industry. We now look forward to the opportunity to work with you.

#### System Applications

Press  
Conveyor System  
Strip Process Line



### ROBOTS

As a pioneer in mechatronics, HHI provides high-quality and cost-effective robot & robotic systems in various industrial fields on a turnkey basis. HHI's services include R&D, engineering, manufacturing, fabrication, project management, testing, commissioning, and after-sales services.

#### Robot Applications

Spot Welding  
Arc Welding  
Handling (LCD etc.)  
Sealing  
Palletizing  
Assembly  
Deburring  
Painting



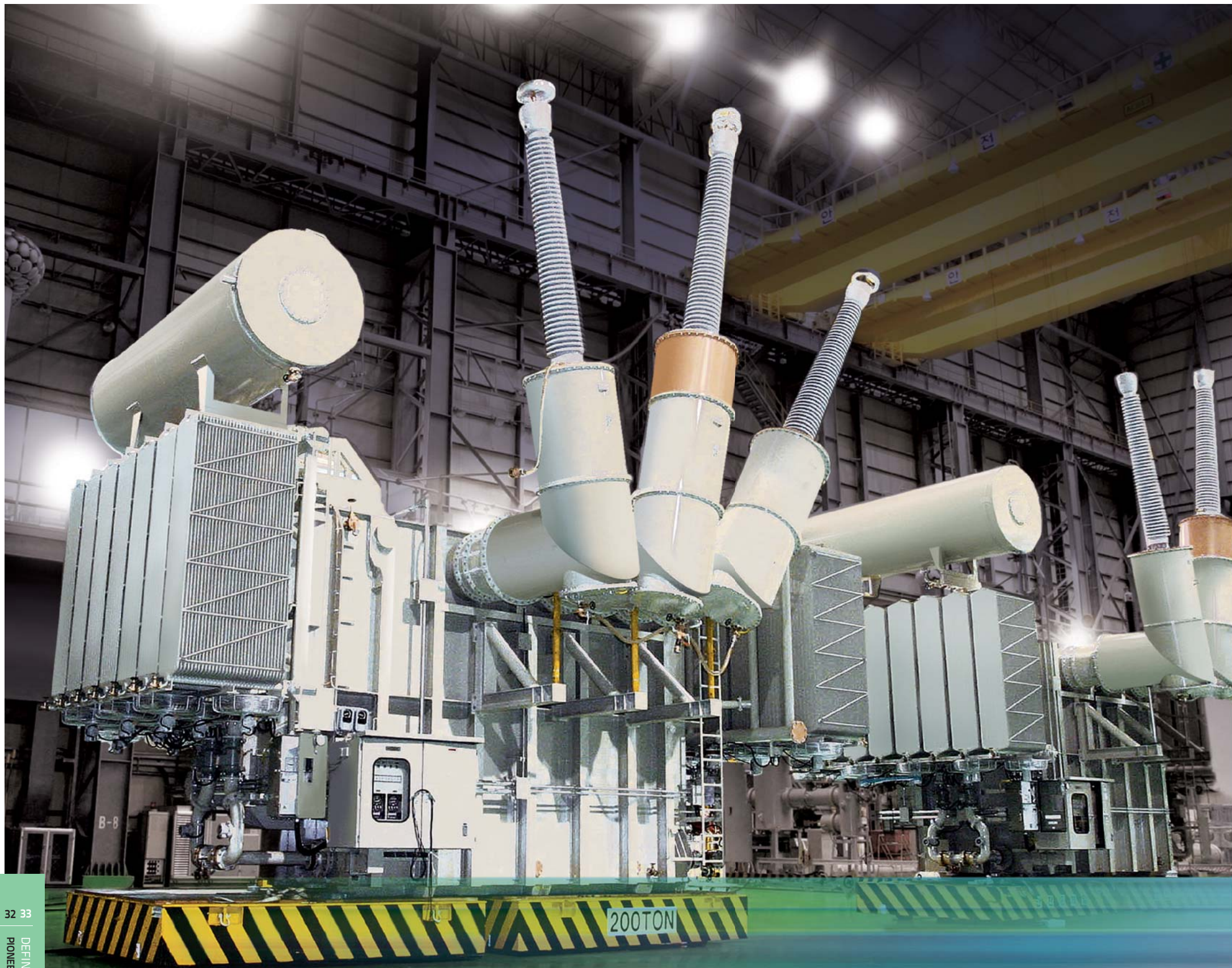
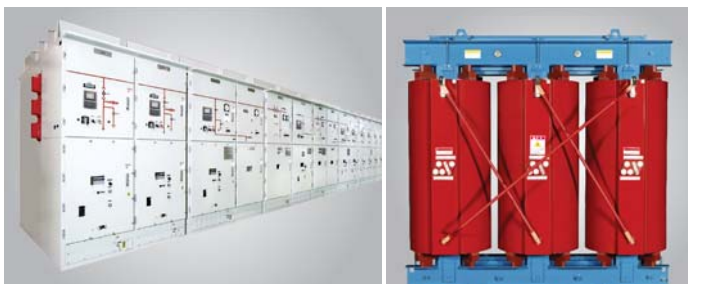




HHL's first goal, as a reliable and experienced electrical equipment manufacturer for the power transmission and distribution market, is to provide total and continuous client based solutions. For three decades, HHL's Electro Electric Systems Division has engaged in designing, engineering, manufacturing, and supplying electrical products such as transformers, gas insulated switchgear, switchgear, low & medium voltage circuit breakers, motors, generators, power electronics, instrumentation, and control systems in compliance with international standards and customer requirements.

#### Main Products

- Transformers
- Gas Insulated Switchgear
- Switchgear
- Power Automation
- Low & Medium Voltage Circuit Breakers
- Rotating Machinery
- Power Electronics
- Automation Systems

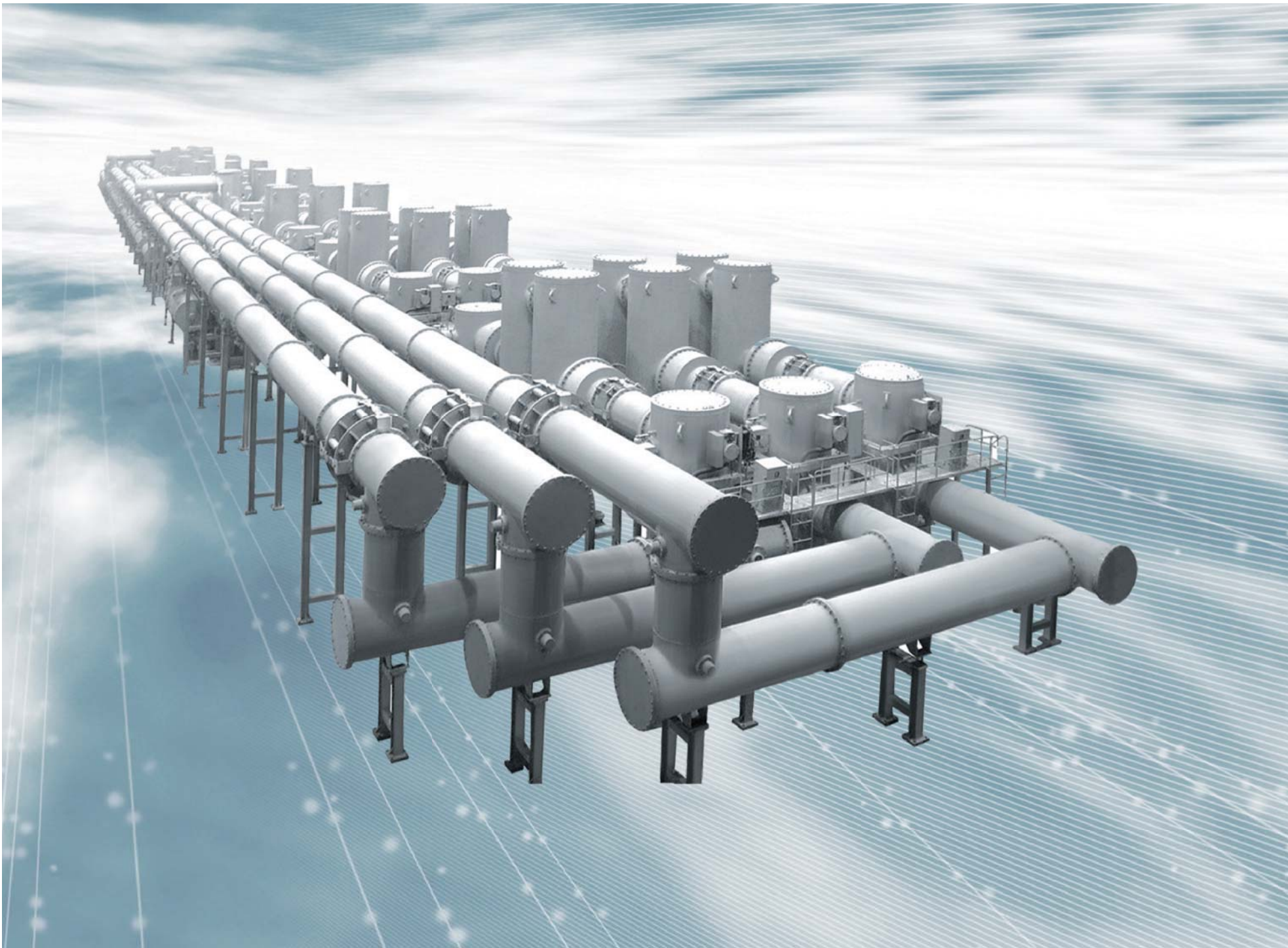


Pioneering Innovative Technology



# ELECTRO ELECTRIC SYSTEMS





#### Transformers

Oil Immersed Transformer  
Dry Type Transformer  
Cast Resin Transformer  
Special Transformer

#### Gas Insulated Switchgear

#### Switchgear

Medium Voltage Switchgear  
Low Voltage Switchgear & Motor Control Center  
Cubicle-type Gas Insulated Switchgear  
Marine Switchgear

#### Power Automation

Digital Protection Relay  
Digital Meter Transformer & Switchgear PDS System  
Transmission Line Monitoring System

#### Low & Medium Voltage Circuit Breakers

Vacuum Circuit Breaker  
Vacuum Contactor  
Air Circuit Breaker  
Molded Case Circuit Breaker  
Contactor & Relay  
Miniature Series

#### Rotating Machinery

Low Voltage Induction Motor  
Medium & High Voltage Induction Motor  
Synchronous Generator

#### Power Electronics

General Purpose Inverter  
Solar Inverter  
Electric Vehicle Purpose Equipment

#### Automation Systems

System Integration  
DCS/SCADA System  
Marine & Ship Automation System  
Environmental Energy Recycling System



## EXTENSIVE RANGE OF HIGHLY EFFICIENT INDUSTRIAL AND POWER SYSTEMS

Covering a wide range of electrical equipment for both industrial and marine use, HHI has been a key contributor to the modernization of various industrial plants, power utilities, and transportation systems. Since its inception, the division has grown into a global leader in the electrical manufacturing industry by supplying reliable and high-quality products. In order to meet the specific needs of customers for package or turnkey projects, HHI can also build substations on a turnkey basis including efficient project management and field services. HHI's Electro Electric Systems Division is fully capable of providing clients with quality products and excellent services for various electrical needs through the combination of advanced technology and state-of-the-art facilities for manufacturing and testing.



# GREEN ENERGY



Creating Future Value



## Year of Take-Off for Green Energy Division

The new Green Energy Divisions, shall take a leading role as a growth engine for the future of HHI. Our wind power, solar power energy, and energy storage system businesses combined together will act as a propulsive force to position as a global Green Energy Leader.







#### Production Range

**1. HQ1650**

- Rated Power: 1,650 kW
- Doubly Fed Induction Generator (DFIG)

**2. HQ2000**

- Rated Power: 2,000 kW
- Doubly Fed Induction Generator (DFIG)

**3. HQ5500**

- Rated Power: 5,500 kW
- Permanent Magnet Synchronous Generator(PMSG)



## SOLAR POWER ENERGY

Solar  
Module

Solar  
Inverter

Total PV  
Solution

Today, renewable energy plays an important role in the energy balance. It must be aggressively developed both technologically and commercially if we want to realize meaningful environmental improvements. Solar power energy will take a major position in this field and is now rapidly growing in the global market. HHI will contribute to further development of photovoltaic technology and the growth of the market.



## WIND TURBINE ENERGY

From development to operation and maintenance, Hyundai Heavy Industries provides total solutions for wind power generation. With a variety of products and proven engineering capabilities, we are turning green-tech dreams into reality.





# CONSTRUCTION EQUIPMENT

Opening New Frontiers



## Main Products

Hydraulic Excavators  
Backhoe Loaders  
Skid Steer Loaders  
Forklift Trucks  
Hydraulic Machinery

## Leading with Change & Innovation

Our Construction Equipment Division is widely recognized as an industry leader for its use of advanced ergonomic engineering and technology. Backed by highly advanced factory automation, a zero-tolerance quality control inspection system, and innovative engineering, the Construction Equipment Division offers a wide range of construction equipment to satisfy the demands of customers around the world. The Division started production in 1985, and now manufactures more than 155 models of heavy equipment including hydraulic excavators, wheel loaders, industrial lift trucks, as well as skid steer loaders. The Construction Equipment Division markets and supports its products through 530 distributors in 140 countries. The division also maintains nine global operation centers in the United States, Europe, India, and the Chinese cities Changzhou, Beijing, and Taian.







### WHEEL LOADERS

The Construction Equipment Division manufactures wheel loaders ranging from 123 hp to 344 hp. All wheel loaders are powered by Cummins engines with ZF transmissions, and include standard z-bars, integrated tool carriers, and extended reach configurations. The central intelligence control system adopts selective digital and analogue signals to provide a self-diagnostic function and a machine history recording. Structural integrity is designed and tested with the Finite Element Method (FEM) to eliminate potential stress from various job applications and working conditions. In addition, the maximum weight limit for ROPS certification has been recalibrated and certified to provide greater safety.

### BACKHOE LOADER

Our backhoe design is an inherently strong design, perfect for heavy duty applications. The boom allows good visibility into the trench when the operator is digging around buried obstructions such as water mains, sewer pipes or utility lines. pilot controls improve operator control and precision when excavating. An optional extendible dipper significantly increases the machine's versatility.

## CUSTOMER-ORIENTED MANAGEMENT

### HYDRAULIC EXCAVATORS

Hyundai Construction Equipment released the 9-series Hyundai Robex excavators with distinctive new styling including significant structural and technical improvements. The complete range, including the improved hydraulic system, the Hi-mate System (Remote Management System) using GPS-satellite technology, and advanced cluster, has been conceived as a true global concept to meet the increasingly stringent international requirements for energy efficiency, safety, and environmental protection. These business solutions also include Hyundai's legendary values of durability and reliability.







## THOROUGH TECHNOLOGY & QUALITY



### SKID STEER LOADERS

The ROPS/ FOPS canopy is designed for the operator's comfort, safety, and excellent visibility to maximize productivity. The wide entrance to the operator compartment, the handles, and the non-slip steps are provided for the operator's convenience, and safety. Open-type canopy and a control valve on the upper position provide easy access to all pipes and relief valves for maintenance. Various attachments provide high productivity and easy operation.

### FORKLIFT TRUCKS

Hyundai IC (Internal Combustion) and Electric Trucks provide superior performance, quality, and comfort. Safety, durability, and operator's comfort level have been considered under various working conditions. Hyundai forklifts supply both pneumatic and cushion tires that provide high quality performance. Standard masts, two-and three-stage free lift masts, and a full range of optional masts are designed to use various attachments.

### HYDRAULIC MACHINERY

HHI provides hydraulic equipment to various industrial fields, including construction, transportation equipment, and industrial plants such as roll-mills or marine plants. HHI will continue to develop and innovate the fluid power technology that is an important part of modern industry.



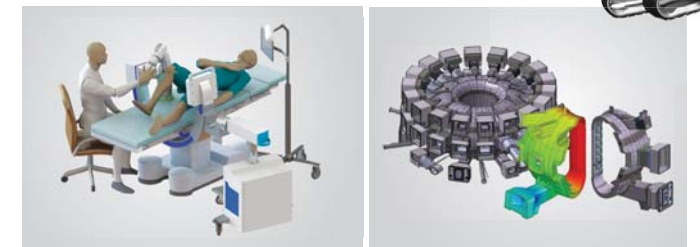


## RESEARCH & DEVELOPMENT

Foundation for Success 

Research & Development is an essential requirement for improvement and advancement of modern technology. HHI's commitment to research and development has been a motivating factor to company's many technical achievements and will continue to be a vital factor in the future. HHI's R&D comprises of Corporate Technology Institute, five business division research institutes, and Technology Administration Office.

### ADVANCED TECHNOLOGY INSTITUTE



The Advanced Technology Institute (ATI) was founded in 2012 to upgrade the core technologies, and systems commonly required for HHI's world-class products. The institute develops new technologies which will be essential for long-term growth. ATI's typical advanced technologies are for comfort, safety and eco-friendliness which are essential to upgrade the quality of HHI's products, and more importantly, to satisfy our clients. ATI is also developing core technologies for offshore structures and power plants. ATI's scope is offshore oil plants, offshore gas plants, power plants, seawater desalination plants, and engine emission protection system.

### INDUSTRIAL TECHNOLOGY INSTITUTE



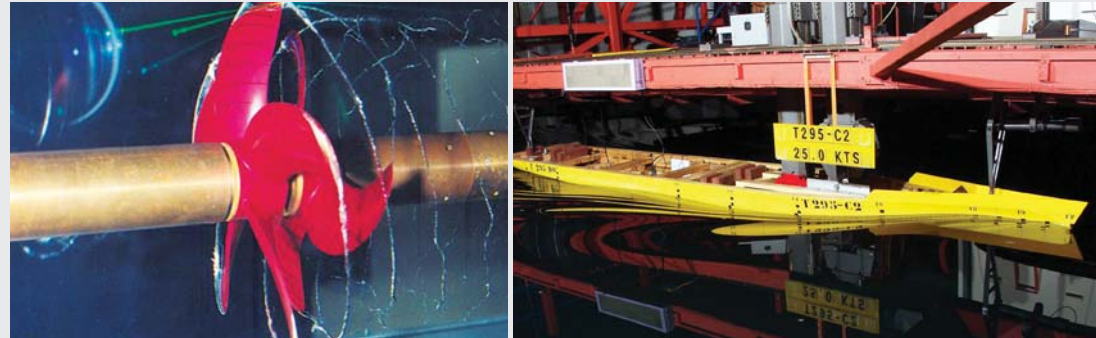
The Industrial Technology Institute (ITI) was established in 1983 and plays a vital role in developing production technologies such as welding, casting, protective coatings and automatic manufacturing facilities. ITI possesses advanced analyzing equipment and powerful simulation facilities to develop new concepts in design and production technologies. ITI operates an internationally authorized material testing laboratory to ensure the quality of HHI's products.



## FRONTIER TECHNOLOGY INSTITUTE

Frontier Technology Institute (FTI) was founded in 2012 to play a pioneering role in creating new growth engines for HHI. FTI's strategy is to explore, develop, and incubate promising technologies to launch as businesses. FTI's research currently covers a wide range of energy-related areas, medical robots, and enhanced industrial design.

## MARITIME RESEARCH INSTITUTE



The Maritime Research Institute (MRI) was founded in 1984 to help HHI achieve its goals in the marine field. At present, MRI possesses first-class core technologies and helps upgrade the quality of HHI's world-class products. MRI's research fields of MRI includes hydrodynamics, structural mechanics, and experiment for ships and offshore structures. In addition to the practical R&D activities for the shipbuilding division, MRI is developing new technologies and businesses to ensure the long-term growth of HHI.

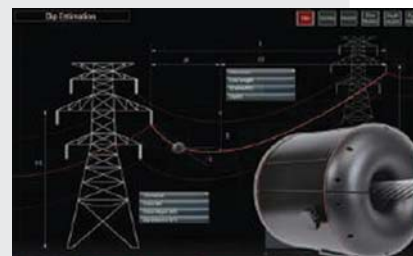
## ENGINE & MACHINERY RESEARCH INSTITUTE



The Engine & Machinery Research Institute was reorganized in April 2012 with a special mission to improve product development technologies. Main tasks are to enhance the performance and reliability of existing products, to develop next generation models and new products. Products include engines, industrial robots and fluid machinery. Integrated development systems and key element technologies for the products, from initial design to verification test, are dealt with for the optimum design considering user environments and development conditions.

## ELECTRO ELECTRIC SYSTEMS RESEARCH INSTITUTE

The Electro Electric Systems Research Institute (EESRI) was established in 1982. EESRI provides key technologies through cutting edge research to create a better future for our clients. We are always seeking new technological insights to transform into high-quality products and businesses. With a strong emphasis on electrical engineering and mechanical engineering, EESRI is engaged in a variety of R&D activities addressing technologies from fundamental to applied, and from theoretical to practical.



## GREEN ENERGY RESEARCH INSTITUTE

HHI has a global reputation as the world's top tier technology leader by showing many high performance standards in every aspects of technology. Since green energy development is essential for sustainability, HHI is focusing its development strategy in this promising field. From 1997, HHI's Green Energy Division R&D center made feasibility studies and significant progress in developing high efficiency cells, modules and various kinds of wind turbines. Also it has recently teamed up with the Energy Storage Research Team to establish a new energy storage and secondary battery field.

## CONSTRUCTION EQUIPMENT RESEARCH INSTITUTE



Construction Equipment Research Institute (CERI) was established in 2012 to enhance creativity and innovation in developing construction equipment. In order to improve performance, reliability, productivity, and controllability of construction equipment, CERI focuses on virtual design for optimum system, development of main mechanical & electric components, and energy-saving control systems.

## OVERSEAS RESEARCH CENTERS

### Hyundai Technologies Center, Hungary

- Researches the development for technologically advanced products
- Develops power storage flywheels with integrated superconducting bearing applications
- Creates innovative high-voltage circuit breakers, rotating machinery, and transformers
- Writes analytical software for advanced capability

### Hyundai Heavy Industries(Shanghai) R&D Co., Ltd

- Develops new technology and products targeting the global market
- Develops on-site products for the rapidly expanding Chinese market
- Builds global R&D network

## TECHNOLOGY ADMINISTRATION

Technology Administration was newly established in 2012 to cope with the changing business environment and contribute to HHI's sustainable growth.

### Roles:

- Planning mid to long term R&D strategy
- Creating and exploring new business
- Securing and dealing with intellectual property
- Building global R&D network
- Managing R&D projects and achieving knowledge management



# CORPORATE SOCIAL RESPONSIBILITY



In addition to focusing on company's operational aspects, Hyundai Heavy Industries continuously seeks to dedicate itself to the community. We help to improve our neighborhoods and to provide a better living environment for those within our communities. HHI will continue to move forward as the leader in sustainable management by positively maintaining our community, and to strive for a sustainable future by accompanying social responsibility that is vital in creating a healthy community.





# SOCIAL COMMITMENT

## COMMUNITY RELATIONS

HHI is committed to improve the quality of life within its community. HHI helps members of the community to have better lives, and to share company's economic success. HHI has built 18,000 apartments and 10 dormitories near the company as employee housing. Most of the long-term foreign residents are provided with housing at one of the two Hyundai Foreigners Compounds.



### The Asan Nanum Foundation

#### Community Education

##### Sports

Ulsan Hyundai Football Club  
Soccer Fields  
Hyundai Sports Clubhouse  
Ulsan-Hyundai Climbathon

##### Neighborliness

##### Disaster Relief

##### Community Facilities

Hyundai Arts Center  
Cultural Centers  
Ulsan University Hospital  
Hyundai Hotel ( Ulsan & Gyeongju )





# Love & Share & Happy THE ASAN NANUM FOUNDATION

## SUCCESSING THE FOUNDER'S PHILOSOPHY OF SHARING

In 1997, when public welfare needed much improvement, Asan Nanum Foundation was established to provide help in secluded neighborhoods by building hospitals and providing financial assistance to students. On behalf of founder Chung Ju-yung's motive to create "a place where people can live well together," Asan Nanum Foundation has executed numerous initiatives to support the community.

### Major Activities



Global Internship  
Overseas Volunteer  
NPO Academy  
Indirect Support Program  
Nanum Culture Expansion

In order to alleviate conflicts caused by increasing social polarization, Asan Nanum Foundation has continuously implemented numerous actions to improve public welfare and encourage entrepreneurial mindsets among the youths.



### CHUNG JU YOUNG ENTREPRENEURSHIP CAMPUS

As South Korea's first public organization to offer comprehensive support to domestic entrepreneurs, Asan Nanum Foundation has provided mentorship, educational programs, and financial support to promising start-up companies in their initial stages of development, which also led to new career opportunities.

### GLOBAL INTERNSHIP

Asan Nanum Foundation has provided opportunities to young Korean leaders by supporting more than 1,000 youth annually for global on-site work experiences, including corporate environment and international organizations, to help them fulfill their career goals.

### OVERSEAS VOLUNTEER

Asan Nanum Foundation sends more than 500 young Koreans as volunteers every year to developing countries in Africa and Southeast Asia to expand their horizons.

### NPO ACADEMY

Asan Nanum Foundation operates NPO (Non-Profit Organization) Academy four-times a year to discover talented and enthusiastic future NPO activists who can help create a healthier and a brighter community.

### INDIRECT SUPPORT PROGRAM

Asan Nanum Foundation has been the leader in raising quality of life by developing human resources in vulnerable social classes and capabilities of local communities.

### NANUM CULTURE EXPANSION

By managing and operating various volunteering organizations, Asan Nanum Foundation has provided kind and generous hands to every members of the community around us.





## COMMUNITY EDUCATION

In order to foster better educational opportunities in the community, HHI runs 10 schools, including Ulsan University. HHI also runs adult education schools for spouses of employees and senior citizens.

- 3 kindergartens, 2 middle, 3 high schools
- Ulsan College
- Ulsan University
- Adult educational schools for spouses of employees and senior citizens



Global Leader [www.hyundaiheavy.com](http://www.hyundaiheavy.com)

## SPORTS

### Ulsan Hyundai Football Club

The Ulsan Hyundai Football Club began in 1983. Based in Ulsan, the team won the Korean Football League (K-League) championship in 1996, and finished second in 2003. The club has produced many talented football players while inspiring Ulsanites and young supporters alike.

### Soccer fields

HHI has built three soccer fields in the community. These fields are used as training fields by young players from all over the country. During the FIFA World Cup in 2002, they were used as training camps by the Brazilian, Spanish, and Turkish teams.

### Hyundai Sports Clubhouse

Located next to Seobu Soccer Field, the clubhouse is equipped with various training facilities, a cafeteria, a sauna, a PC center, and 70 rooms for athletes. The clubhouse is open to all Ulsan residents. During the 2002 World Cup, it was used by the Spanish National Football Team as their main training camp.

### Ulsan-Hyundai Climbathon

Every spring, Ulsan and HHI co-host the "Ulsan-Hyundai Climbathon", a race covering 11.6 km through roads and mountain paths as high as 206 m. The first race was in 1999, and it now attracts more than 2500 runners annually from all over the nation. They come out to enjoy the fresh spring air, a scenic view of the sea, and HHI's colossal shipyard.







## NEIGHBORLINESS

Since the establishment of Hyundai Shipyard in Dong-gu, Ulsan in 1972, Hyundai Heavy Industries has grown as the leader in its industry. Presently, HHI has systematized its contributions to communities and has also formed successful partnerships with various local organizations to foster interaction and improve communication. HHI continues to cherish friendship and value sharing throughout the year.



## DISASTER RELIEF

Hyundai Heavy Industries' relief activities have expanded to all areas of the globe. HHI has provided construction equipment, manpower, and technical assistance to areas affected by natural disasters, including Turkey, Brazil, China, Japan, and Haiti. Additionally, HHI has also delivered relief goods including foods, shelter, and hygiene products to victims of natural disasters. Most recently, HHI has shipped a packaged power station to provide power for victims of the Japanese earthquake in 2011.



## COMMUNITY FACILITIES

**Hyundai Arts Center** Winner of the Korean Architecture Award in 1998 for its aesthetically pleasing look, the Hyundai Arts Center provides members of the community with various art and musical performances from all over the world. It has a 963-seat concert hall, an art gallery, restaurants, and sports facilities that include a bowling alley, an ice rink, a gymnasium, and an indoor rock climbing wall.

**Cultural Centers** HHI operates five Cultural Centers, offering 350 courses in culture, arts, and sports to more than 7,000 people. These centers also have swimming pools, fitness clubs, gymnasiums, restaurants and tennis courts.

**Ulsan University Hospital** Ulsan University Hospital, equipped with state-of-the-art medical instruments, makes contributions to the regional community through medical studies and health care services. It is staffed by 149 doctors in 23 departments and has 720 beds.

**Hyundai Hotel (Ulsan & Gyeongju)** Hyundai Hotel Gyeongju is perfect for anyone who is traveling to the old capital of Korea, where you can experience the traditions of the Shilla Dynasty. Hyundai Hotel Ulsan, located in front of HHI's main gate, is ideal for a comfortable night of rest. Each hotel has over 250 rooms, convention halls, and recreational facilities.







# QUALITY MANAGEMENT CERTIFICATES

HHI's policy is to meet and exceed contract specifications and regulations, in addition to satisfying the needs of every client. HHI's quality assurance systems are designed, organized, and implemented to ensure HHI's strict standards for quality. These systems are acknowledged worldwide by national and international design and manufacturing organizations. All of HHI's divisions have acquired ISO9001 Quality Management System Certificates. HHI's commitment to training enable us to continue to provide clients with high quality, reliable products, and better services. We will continue to implement and further develop our QM systems to achieve higher levels of product quality.

## Q.M. SYSTEM APPROVAL STATUS

### SHIPBUILDING

**DNV**  
(ISO9001)

Offshore & Onshore Fixed Platforms (Jacket, Module, and Topside) \*  
Floaters (FPSO, FSO, FPU, and TLP) \* Submarine Pipeline Systems \* Ships \*  
LPG Carriers \* Complex Steel Building Structures, and Major Steel Bridge



### ENGINE & MACHINERY

**DNV**  
(ISO9001)

Two/Four Stroke Diesel Engines \* Marine Equipment \* Pumps \* Valves \*  
Conveyors \* Presses \* Robots \* Steam/Gas Turbines \* Diesel Power Plants



**KEPIC**  
(MN/EN)

Pumps, Valves, Diesel Generators

### OFFSHORE & ENGINEERING

**DNV**  
(ISO9001)

Offshore & Onshore Jackets \* Modules \* Hulls & Topside Facilities \*  
Submarine Pipeline Systems \* Tension Leg Platforms \* FPSOs & FPU's \*  
Complex Steel Building Structures \* Major Steel Bridges



### INDUSTRIAL PLANT & ENGINEERING

**DNV**  
(ISO9001)

Design \* Manufacture, and Installation of Power and Heating Boilers \* Pressure-  
Containing Equipment \* Heat-Transfer Equipment \* Desalination Plants \* Cranes \* Material  
Handling Equipment \* Process Equipment for Iron and Steel Mills \* Cement & Lime Plants  
with Commissioning \* Steel Towers, & Tubular Poles

Water Treatment Facilities \* Steel Structures \* Environmental Equipment such as  
Incineration Plants \* Desulfurization Plants and De-nitrogen Plants \* Engineering & Design \*  
Procurement \* Construction Management Services, and Site Construction Activities for  
Civil Works \* Buildings and Industrial Plants

Design and Manufacture of Offshore & Onshore Jackets \* Modules, and Topside Facilities \*  
Submarine Pipeline Systems \* Floating & Mobile Offshore Units

**ASME**  
(N, NA, NPT, U,  
U2, S, PP, H, A,  
R(NB))

Construction of Class 1,2,3, & MC Vessels: Class 2 & 3 Storage Tanks, Class 1, 2, 3, CS, &  
MC Shop Assembly \* Class 1,2,3, CS, & MC Fabrication \* Manufacture of Pressure Vessels \*  
Fabrication and Assembly of Pressure Piping \* Heating Boilers other than Cast Iron \*  
Assembly of Power Boilers and Repairs or Alterations

**KEPIC**  
(MN, SN)

Nuclear Machinery (Domestic Only) \* Nuclear Structures (Domestic Only)



### ELECTRO ELECTRIC SYSTEMS

**DNV**  
(ISO9001)

Transformers \* Gas Insulated Switchgear \* Switchgear \* Low & Medium Voltage  
Circuit Breakers \* Motors & Generators \* Instrumentation & Control Systems \*  
Power Electronics \* Electrical Marine Equipment \* Locomotive Purpose Equipment \*  
Explosion-Proof Motors

**KEPIC**  
(EN)

Nuclear Electrical Equipment & Control System [Domestic Only]

**DNV**  
(QS-EC)

Voyage Data Recorders (Electrical Marine Equipment)



### GREEN ENERGY

**DNV**  
(ISO9001)

Design \* Manufacture \* Testing \* Installation and Servicing of Photovoltaic Cell \*  
Module \* Inverter and Systems ; Wind Turbines



### CONSTRUCTION EQUIPMENT

**DNV**  
(ISO9001)

Excavators \* Wheel Loaders \* Fork Lifts \* Skid Steer Loaders \* Mini-Excavators \*  
Hydraulic Truck Cranes \* Dozers \* & Hydraulic Cylinders





# Hyundai Mipo Dockyard



President & CEO  
Choe Weon-gil



## Hyundai Mipo Dockyard (HMD)

Hyundai Mipo Dockyard is the leading shipbuilder of medium-size ships and the fourth largest shipbuilder in the world. Since entering the newbuilding market in 1996, HMD has delivered more than 680 ships that include Product/Chemical Tankers, Containerships, Bulk Carriers, LPG Carriers, PCTCs, Drillships, Cable Layers, Pipe Layers, FPSO, Car Ferries and Passenger Ships. HMD has achieved global recognition for its medium-range Product/Chemical Tankers and sub-panamax Containerships with optimized specifications and high quality. HMD's vision is to be the most reliable shipyard with a customer-oriented mindset and to deliver high quality vessels on time, providing both value and satisfaction for global clients.

**Year Established :** 1975    **Business Line :** Shipbuilding  
**Products :** Chemical Tankers \* Containerships \* LPG Carriers \* Pure Car & Truck Carriers (PCTC) \* Ro-Ro vessels (including Con-Ro vessels) \* Platform Supply Vessels \* Open-Hatch Bulk Carriers \* Bulk Carriers \* Drillships \* Car Ferry & Passenger Ship \* Other specialized vessels (FPSO and Cable & Pipe Laying, etc.)

**Headquarters :** 100 Bangeojinsunhwan-doro, Dong-gu, Ulsan 682-712, Korea  
**Tel :** +82-52-250-3038    **Url :** www.hmd.co.kr    **e-mail :** sales@hmd.co.kr  
**Subsidiary :** Hyundai-Vinashin Shipyard Co., Ltd. (HVS)    **Tel :** 84-58-362-2101



# Hyundai Samho Heavy Industries



President & CEO  
Ha Gyung-jin



## Hyundai Samho Heavy Industries (HSHI)

Hyundai Samho Heavy Industries is a shipbuilding company with state-of-the-art facilities for shipbuilding and industrial Plants & Cranes. HSHI, having two decades of technological and shipbuilding experience, boasts a record of delivering more than 500 vessels of various types. The Industrial Plant & Crane Division manufactures and delivers more than 20 cranes a year, including bulk handling systems and industrial plants. As a member of the HHI Group since May 2002, HSHI stands ready to provide high quality products to clients.

**Year Established :** 1999    **Business Line :** Shipbuilding, Industrial Plant & Crane  
**Products :** Containerships \* Tankers \* Bulk Carriers \* Gas Carriers \* Pure Car & Truck Carriers \* FPSO \* Drillships \* Semi Submergible Drilling Rig \* Cranes \* Bulk Handling System \* Industrial Plants.

**Headquarters :** 1700, Yongdang-ri, Samho-eup, Yeongam-gun, Jeollanam-do, Korea  
**Tel :** +82-61-460-4118    **Url :** www.hshi.co.kr    **e-mail :** marketing@hshi.co.kr







# ORGANIZATION & HISTORY

Hyundai Heavy Industries (HHI) had its ground breaking ceremony in March 1972. HHI spreads across 2,450 acres that cover 1,630 acres of its production facilities and 820 acres of amenities (apartment complexes, schools, and recreational centers). Since the successful construction of its first two 260,000 DWT supertankers in 1974, HHI has built and delivered almost every kind of ship to clients over the world. Backed by technology and experience acquired through shipbuilding as well as streamlined modern facilities and a highly skilled workforce, HHI has diversified its business activities from shipbuilding into other heavy industrial fields. In the world's biggest shipyard, HHI operates various business lines: Shipbuilding, Offshore & Engineering, Industrial Plant & Engineering, Engine & Machinery, Electro Electric Systems, Green Energy, and Construction Equipment.

## 1970s

- 1970.12** Contract for two 260,000DWT supertankers from George Livanos.
- 1972.03** Groundbreaking for Ulsan shipyard.
- 1973.12** Establishment of Hyundai Shipbuilding & Heavy Industries.
- 1974.06** Completion of shipyard and naming of the first two supertankers.
- 1976.07** Construction contract for OSTT from Saudi Arabia.
- 1978.02** Renamed HHI.

## 1980s

- 1983.11** Establishment of Hyundai Maritime Research Institute (HIRI).  
- Awarded USD 1 Billion Export Tower.
- 1983.12** No. 1 in the world in ship orders & construction.
- 1984.10** Establishment of Hyundai Maritime Research Institute (HMRI).
- 1986.12** Delivery of the world's biggest ore carrier (365,000 DWT/Berge Stahl).
- 1989.05** Delivery of the world's biggest jacket (40,000 tonnes) to Exxon.

## 1990s

- 1991.09** Completion of LNG Tank Fabrication Factory.
- 1992.06** Set a world record of over 10 million on-site visitors.
- 1998.06** Opening of Hyundai Arts Center.

## 2000s

- 2000.03** Production of 50,000th unit of construction equipment.
- 2000.06** Acquired ISO 9001 Certificate in all business divisions.
- 2000.09** Launched HiMSEN diesel engine.
- 2000.11** Selected as the main contractor for South Korea's next-generation submarines.
- 2001.02** Delivery of the world's largest FPSO (343,000 DWT/Exxon Mobil).
- 2001.04** Reached 30 million bhp in marine diesel engine production.
- 2001.05** Production of the world's most powerful marine diesel engine (93,000 bhp).
- 2001.06** Acquired OHSAS 18001 Certificate.
- 2002.01** Entered market for Membrane-type LNG carrier.
- 2002.02** HiMSEN engine named one of 'Korea's Top Ten New Technologies'.
- 2002.03** Disaffiliation from Hyundai Group, formed Hyundai Heavy Industries Group.

- 2002.04** Built South Korea's largest patrol ship, 'Sam Bong Ho'.
- 2002.05** Opening of Hyundai Sports Club.
- 2002.06** Delivery of first RO-PAX ship (Stena Britannica).
- 2002.08** On-ground construction of 340,000 DWT FSO.
- 2002.09** Selected as 'Excellent Skill Company' by Korea's Ministry of Labor.
- 2002.10** On-ground assembly of FPU (Floating Production Unit) Set Guinness world record for on-ground 'super lift' of 12,000 for tonne Na Kika FPU.  
- Certification of the HiMSEN engine by world classification societies.
- 2002.12** Order for South Korean stealth destroyer  
- Korea's largest 840 MVA transformer built.
- 2003.01** On-ground building method of large offshore structure using multi-purpose double barge.  
- Selected as 'Korea's Top Ten Technologies'.  
- Acquired South Korea's first ULcertificate for industrial robots.

- 2003.03** World's largest LPG vessel built. (Greece CMM/82,000m³)
- 2003.04** Launched Korea's largest next-generation destroyer. ('ROKS Moonmu Daewang')  
- Selected as one of the best employers in Asia.
- 2003.05** World's first automatic plasma welding machine developed.  
- Excavator selected as a 'World-class Product'.

- 2003.07** Achieved 40 million BHP in marine engine output in the shortest time in history.
- 2003.08** World's largest 260 MW diesel power plant ordered from Malaysia.
- 2003.09** Awarded Korea's best company 'World-class' award.
- 2003.10** Advanced health care center completed
- 2003.11** 20th anniversary of Hyundai Industrial Research Insitute
- 2003.12** Annual production of robots surpasses 1,000 units

- 2004.01** Crankshaft selected as a 'World-class Product'
- 2004.04** World's largest (106.3 tonnes) propeller produced
- 2004.05** Synchronous marine generator, four-stroke medium-speed diesel engine selected as
- 2005.01** Secured new-building order for ultra-large 10,000 TEU containerships
- 2005.04** Hyundai 7-series model excavator selected as 'World's Best Construction Equipment' by Construction Equipment Magazine
- 2005.08** Completed the 2,000th propeller within the shortest time (20 years)

- 2005.09** Awarded 'Top Company of the Year' by Korea CEO Association
- 2005.12** Received 'Korea Managment Award' in 2005 from Korea Management Association
- 2006.06** Built 1,800-ton class submarine, 'ROKS Son Wonil'
- 2006.08** Korea's first overseas oil development project sailed out (Rong Doi, Vietnam)
- 2006.09** Received Korean Top-class Enterprise Award for the fourth consecutive year
- 2007.05** Production of the world's most powerful marine diesel engine (108,900 bhp)
- 2007.09** received Korean Top-class Enterprise Award for the fifth consecutive year
- 2007.11** Built world's largest LNG Carrier (216,000 m³/ Al Gattara)
- 2007.12** Won USD 10 Billion Export Tower Award
- 2008.05** Groundbreaking for Gunsan Shipyard  
- Completion of Solar Module & Cell Factory in Eumseong
- 2009.04** Completion of H-Dock specializing in FPSO construction
- 2009.10** Hyundai Heavy wins Labor Relations Grand Prix
- 2009.11** Won USD 15 Billion Export Tower Award
- 2009.12** Hyundai Heavy buys Hyundai Corp.

## 2010s

- 2010.03** Completion of Gunsan Shipyard and Wind Turbine Factory
- 2010.05** Received USD 600 million Transformer Order (SCE in USA)
- 2010.08** Hyundai Heavy buys Hyundai Oilbank
- 2010.09** Production Milestone of 100 million BHP in marine engines
- 2010.10** Hyundai Heavy to Build South Korea's Largest Solar Cell Plant
- 2011.01** Established Green Energy Division
- 2011.02** Hyundai Heavy builds 5,000 th HiMSEN Engine  
-Most ships delivered 1,700
- 2011.04** Established Hyundai Energy & Resources  
- Completion of World's Largest Power Plant in Saudi Arabia
- 2011.09** Completion of Integrated R&D Center Building
- 2011.11** Completion of Pearl-GTL Construction in Qatar
- 2011.12** Lifted World's Largest offshore platform (23,600 Tonnes)
- 2012.03** Achieved 100 million Gross Tonnage in Ships
- 2012.07** Produced 1,000 th Packaged Power Plant



# GLOBAL NETWORK

- Overseas Branch Offices
- Overseas Subsidiaries

## [ EUROPE ]

### THE UNITED KINGDOM

2ND FLOOR, THE TRIANGLE, 5-17 HAMMERSMITH GROVE LONDON, W6 0LG, UK  
Tel : 44-20-8741-0501  
Fax : 44-20-8741-5620  
E-mail : ldn@hhi.co.kr

### NORWAY

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RAADHUSGATEN. 20, 0151 OSLO, NORWAY  
Tel : 47-2310-0890  
Fax : 47-2310-0899  
E-mail : oslo@hyundaihi.no

### GREECE

73, POSEIDONOS AVENUE, 175 62, PALEO FALIRO, ATHENS, GREECE  
Tel : 30-210-428-2992~3  
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### THE NETHERLANDS

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### SPAIN

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### RUSSIA

WORLD TRADE CENTER, ENT. 3, #1902, KRASNOPRESNENSKAYA NAB12, MOSCOW, 123610, RUSSIA  
Tel : 7-495-258-1381  
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## [ AFRICA ]

### ANGOLA

RUA LUCRECIA PAIM NO.28/30 LUANDA, ANGOLA  
Tel : 244-222-370-669  
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## [ ASIA ]

### JAPAN

8TH FLOOR NORTH TOWER YURAKUCHO DENKI BLDG., 1-7-1 YURAKU-CHO, CHIYODA-KU, TOKYO 100-0006, JAPAN  
Tel : 81-3-3211-4792  
Fax : 81-3-3216-0728  
E-mail : tokyo@hhi.co.kr

I-ROOM 5TH FLOOR NAGAHORI PLAZA BLDG. 2-4-8 MINAMI SENBA, CHUO-KU, OSAKA 542-0081, JAPAN  
Tel : 81-6-6261-5766~7  
Fax : 81-6-6261-5818

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