

# HHI SHIPBUILDING GROUP

BETTER THAN THE BEST

**HYUNDAI**  
HEAVY INDUSTRIES  
GROUP





A large cargo ship, the 'MEDALUS', is shown from a high-angle perspective, sailing on a deep blue ocean. The ship has a red hull and a white superstructure. The name 'MEDALUS' is visible on the side of the hull. The ship is moving towards the horizon, leaving a white wake behind it. The sky is a clear blue with some light, wispy clouds.

BETTER

T H A N

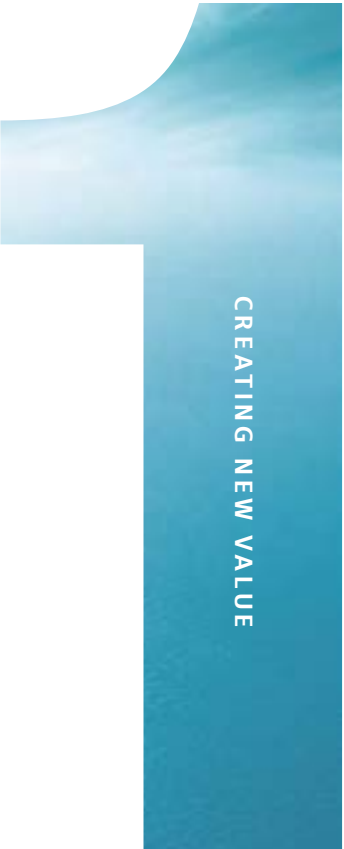
T H E B E S T

HHI Shipbuilding Group is certainly a prominent leader in the global shipbuilding industry. HHI Shipbuilding Group has three dedicated members - **HYUNDAI HEAVY INDUSTRIES (HHI)**, **HYUNDAI SAMHO HEAVY INDUSTRIES (HSHI)** and **HYUNDAI MIPO DOCKYARD (HMD)** - all teamed to offer the highest quality shipbuilding services to our customers.

HHI Shipbuilding Group has come a long way in pursuit for providing a '**BETTER THAN THE BEST**' solution for all types of ships and tailored to meet clients' needs. Each member of the Group is a well-established player in their market, but their combined efforts will create more value to our clients by leveraging a vast array of the most advanced production facilities and engineering capabilities and sharing technological innovations.

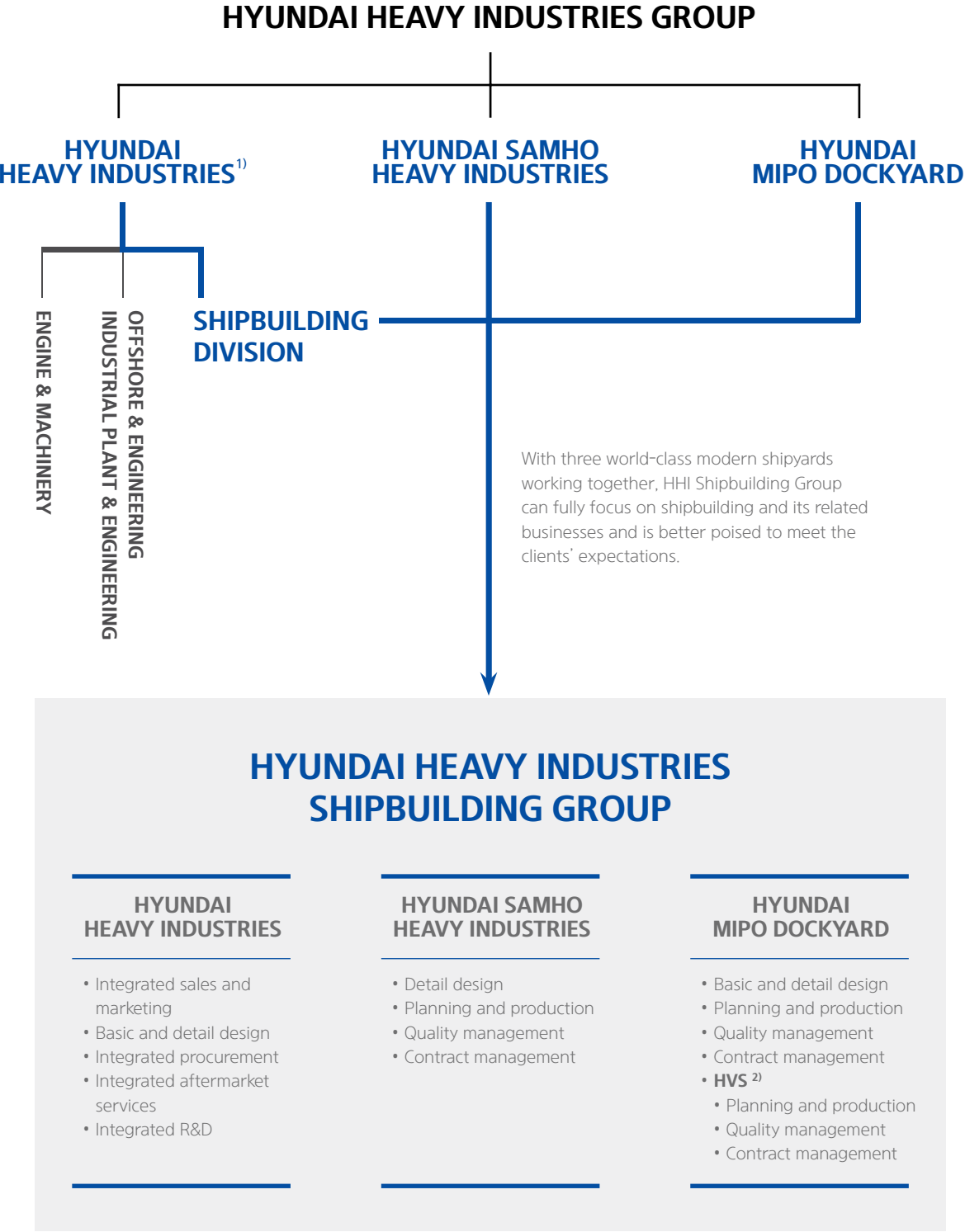
HHI Shipbuilding Group has been building an extensive product mix of commercial and special ships for the shipping, energy transport and exploration, and naval ship markets.





HHI SHIPBUILDING GROUP WITH 3 COMPANIES INTEGRATED

HYUNDAI HEAVY INDUSTRIES  
HYUNDAI SAMHO HEAVY INDUSTRIES  
HYUNDAI MIPO DOCKYARD



1) Hyundai Heavy Industries currently has 3 business divisions and 15 affiliate companies and HSHI and HMD shown here are 2 of the affiliate companies  
2) HVS (Hyundai-Vinashin Shipyard): Joint venture company between HMD and Shipbuilding Industry Corporation of Vietnam



7

GLOBAL SHIP SALES OFFICES

NEW JERSEY

LONDON

ATHENS

OSLO

DUBAI

TOKYO

SINGAPORE



44

TOTAL NUMBER OF  
HHI GROUP'S BRANCHES AND CORPORATIONS

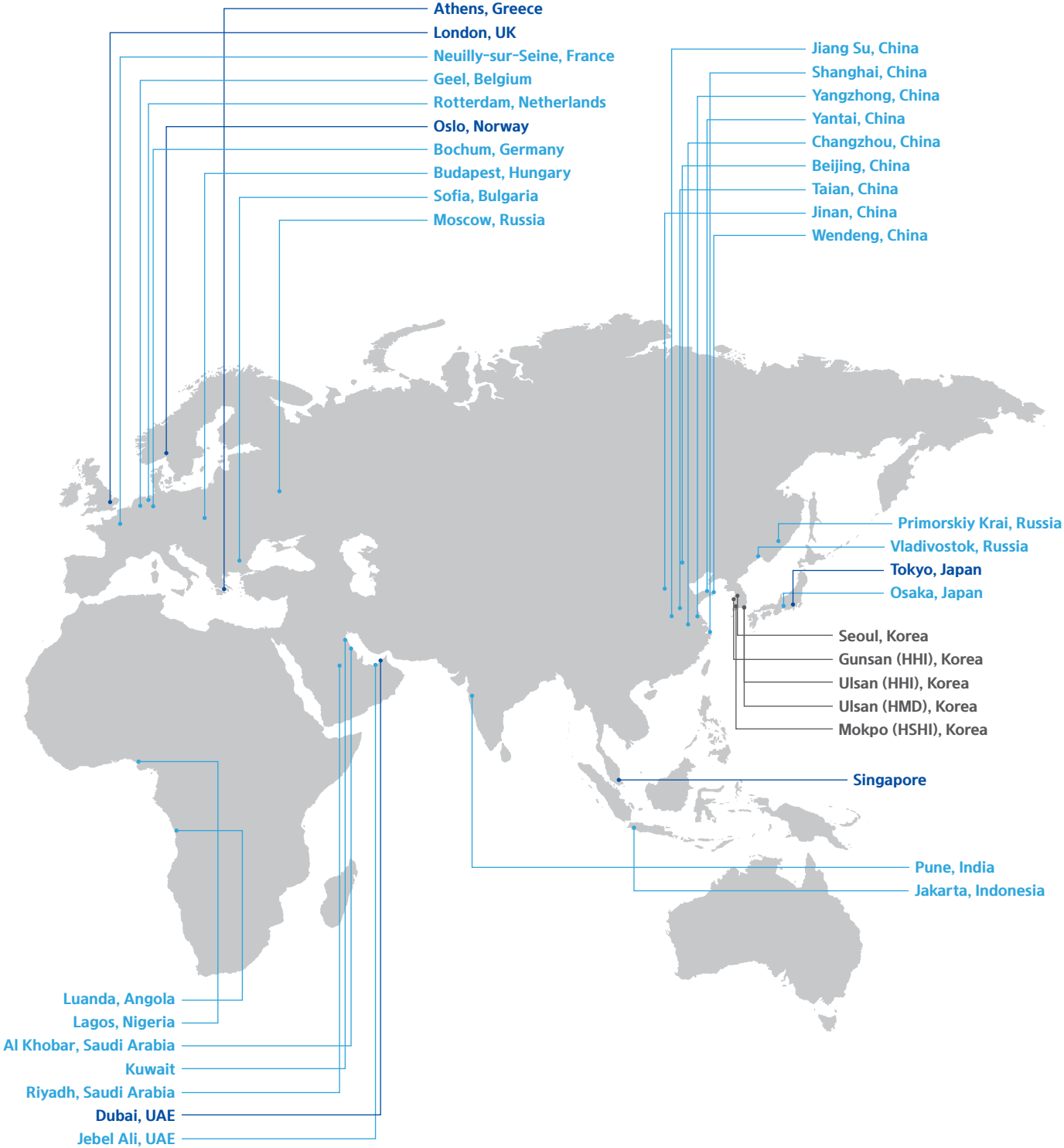
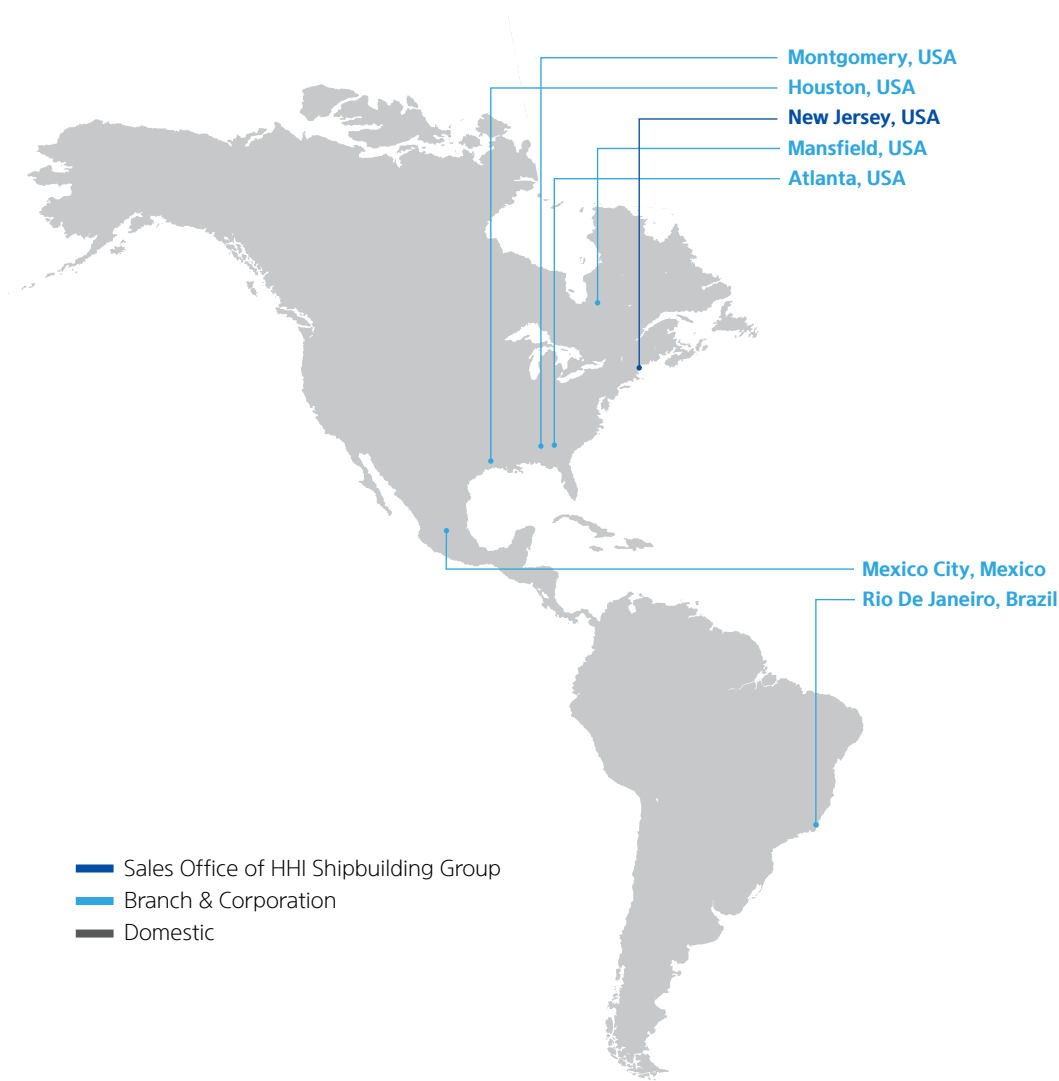


# GLOBAL NETWORK

HHI Group has a worldwide network of offices and partners and its integrated marketing organization channels all our sales resources and capabilities toward effective market analysis, competitive marketing strategy and specific contract review.

HHI Group's Ship/Offshore Marketing Division serves as an integrated marketing point to set up a strong sales headquarters in Seoul, including 300 sales staff at HHI and its affiliate companies.

Design team staff members will be working side by side with the sales colleagues to improve coordination and efficiency with the purpose of finding optimal solutions for the needs of our clients.



## GLOBAL SHIP SALES OFFICES

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# OUR JOURNEY IN BECOMING THE BEST SHIPBUILDER

HHI  
HMD/HVS  
HSHI

**1974 [HHI]**  
• Hyundai Shipyard delivered the first VLCC named *Atlantic Baron*

**1975 [HMD]**  
• Hyundai Mipo Dockyard (HMD) was established to offer ship repair/conversion services

**1984 [HHI]**  
• HHI surpassed 10 million DWT in ship production after only 10 years of the shipyard operation  
• Hyundai Maritime Research Institute was established to support R&D for the shipyard

**1996**  
HMD ENTERED INTO NEWBUILDING BUSINESS

**2002**  
HALLA HEAVY INDUSTRIES WAS MERGED INTO HYUNDAI HEAVY INDUSTRIES AND INCORPORATED AS HYUNDAI SAMHO HEAVY INDUSTRIES (HSHI) IN 2003

**1997 [HMD]**  
• HMD delivered its first ship (FPSO) for Petroleum Geo-Services

**1992 [HSHI]**  
• Halla Heavy Industries (the former entity of HSHI) was constructed

**1999 [HMD/HVS]**  
• Hyundai-Vinashin Shipyard (HVS) was established in Vietnam as a repair/conversion shipyard

**1999 [HSHI]**  
• HSHI started business as Samho Heavy Industries

**1996 [HHI]**  
• HHI completed drydocks No.8 & 9 at No.2 yard, dedicated to building VLCCs

**1994 [HHI]**  
• HHI delivered South Korea's first LNG carrier for Hyundai Merchant Marine

**1999 [HHI]**  
• HHI listed its shares on the South Korean Stock Exchange (KSE)

**1972**

GROUNDBREAKING OF THE HYUNDAI SHIPYARD IN ULSAN, SOUTH KOREA

**1985**

HHI WAS RANKED THE WORLD'S TOP SHIPYARD BY THE JAPANESE ECONOMIC JOURNAL *DIAMOND*

## GATEWAY TO PROSPERITY [1972-1995]

The year 1972 marked the groundbreaking of Hyundai Shipyard. It was Chung Ju-yung, the founder of Hyundai Group, who initiated the construction of the shipyard in Ulsan, South Korea. At that time he had no experience, capital, nor technology for shipbuilding, but he had inspiration and belief in his resolution to dedicate the world's largest shipyard: "When you are at a dead end, look for a way out. When you look and still can't find a way, pave it out yourself." Two years later in 1974, Hyundai held a ceremony to simultaneously name the two VLCCs and dedicate the shipyard. The event was the first step of Hyundai Shipyard.

Now Hyundai Heavy Industries Shipbuilding Group operates four shipyards - HHI, HSHI, HMD and HVS - to provide top-quality ships and services around the world.

Beyond the horizon, HHI Shipbuilding Group will maintain the leading position by building up trust and mutual relationship with our clients: making ceaseless innovation; and meeting the highest standards and new market demands.



## HMD'S RISE TO PREMIUM BUILDER OF MEDIUM-SIZED SHIPS [1996-2001]

Hyundai Mipo Dockyard (HMD) is the world No.1 shipbuilder specializing in medium-sized ships such as Product/Chemical Tankers, Gas Carriers (LPGC, LEGC, LNGC, LNG Bunkering), Containerships, Bulk Carriers, PCTCs, Ro-Ro Ships, Con-Ro Ships, and other special ships.

HMD was founded in 1975 and had grown to be the world's largest ship-repair and conversion yard. Based on technology and experience accumulated from the repair and conversion services, HMD has focused on the newbuilding of medium-sized commercial ships since 1996. HMD has been solidifying its presence on this shipbuilding sector by delivering more than 950 ships.

Hyundai-Vinashin Shipyard (HVS) established in 1999 with full support from HMD has been marking its prestigious position in Product/Chemical Tankers, Bulk Carriers and Containerships.

**ESTABLISHMENT OF HYUNDAI HEAVY INDUSTRIES GROUP [2002-2015]**

In 2002, having spun off Hyundai Business Group, HHI has formed independent Hyundai Heavy Industries Group including three major shipyards. That year, HHI incorporated Halla Heavy Industries with HHI Group and changed its name to Hyundai Samho Heavy Industries in 2003, HSHI has become the world's 4th largest shipbuilder by delivering about 600 ships such as Tankers, Containerships, Bulk Carriers, PCTC, LNG Carriers and LPG Carriers and FPSO.

**BEYOND THE HORIZONS:  
MOVING FORWARD THROUGH INNOVATIONS**

Facing a new era of technical innovation, HHI Shipbuilding Group is not complacently satisfied with past success. We remain committed to moving forward through technological breakthroughs and innovations in the shipbuilding industry by continuing to build top-quality ships; contributing to the development of the world maritime industry; and looking forward to maintaining rewarding business relationships with our customers for the prosperity of all.

- 2008 [HHI/HSHI]**
- Akpo FPSO was constructed and delivered jointly by both companies. HHI completed topside fabrication and HSHI completed hullside fabrication of Akpo FPSO
- 2008 [HSHI]**
- HSHI completed the construction of the on-land shipbuilding site and delivered the first LNG carrier
- 2008 [HMD]**
- HMD delivered its first LPG Carrier for Zodiac
- 2007 [HMD/HVS]**
- HMD surpassed 10 million DWT in ship production
  - HVS entered into newbuilding business

- 2004 [HSHI]**
- HSHI entered into Material Handling Equipment business
- 2003 [HMD]**
- HMD delivered its first medium-ranged (MR) Product/Chemical Tanker and it was selected as the "World Class Product" by the Korean government

- 2009 [HSHI]**
- HSHI expanded Drydock No.2 and constructed outfitting quays, and achieved 30 million DWT in ship production
- 2009 [HMD/HVS]**
- HMD delivered its first PCTC for Vroon
  - HVS delivered its first ship (56K B/C) for E.R.Schiffahrt
- 2010 [HMD]**
- HMD delivered its first first CON-RO and its first RO-RO for Grimaldi

**2012**

HHI WAS THE FIRST IN THE WORLD TO SURPASS 100 MILLION GT IN SHIP PRODUCTION



**2012**

HSHI RECEIVED ORDER FOR A SEMI-SUBMERSIBLE RIG

2012 Innovative Rebirth Period

- 2013 [HSHI]**
- HSHI achieved 50 million DWT in ship production
- 2013 [HHI]**
- HHI delivered the world's first LNG FSRU for Hoegh LNG

- 2014 [HSHI]**
- HSHI acquired international energy management certificate ISO 50001

- 2014 [HMD/HVS]**
- HMD achieved 30 million DWT in ship production
  - HVS delivered the first MR Product/Chemical Tanker for d'Amico

- 2015 [HSHI]**
- HSHI constructed 10,000 ton capacity floating crane

- 2015 [HMD]**
- HMD delivered its first LEGC for Eletson

- 2016 [HSHI]**
- HSHI completed construction of Panama Canal facilities (Valves)

- 2016 [HMD/HVS]**
- HMD delivered the world's first methanol fuelled Product/Chemical Tanker for Westfal-Larsen
  - HVS delivered 70th ship in ship production

**2015**

HHI SHIPBUILDING GROUP ACHIEVED A NEW DELIVERY MILESTONE OF HHI'S 2,000TH, HMD'S 800TH AND HSHI'S 600TH SHIP, RESPECTIVELY

**LOOKING BEYOND THE SHIPBUILDING TO THE SHIP MARKET [2016-]**

Hyundai Global Service was launched to provide clients' urgent and follow-on demands for Hyundai ships for aftermarket, genuine spare parts, technical support and retrofit services as well. This will create more value for our clients by combining all our shipbuilding and marine service resources to provide total solutions and one-stop service for all Hyundai marine products. We believe that HHI's well-aligned 'ship' businesses will create strong value chain for the ship industry beyond the shipbuilding.





# OUR SHIPBUILDING CAPABILITIES

With 19 drydocks and modern production facilities, HHI Shipbuilding Group can provide the best solutions for our customers by producing all types and all sizes of vessels with cutting-edge technologies.

drydocks  
**19**  
m<sup>2</sup> in area  
**14.3 million**  
DWT in capacity  
**10 million**

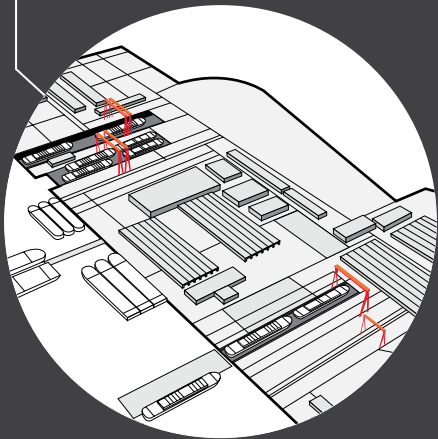
**Any Ship Type  
of Any Size**



## HHI SHIPBUILDING DIVISION (Ulsan & Gunsan)

drydocks  
**10**  
goliath cranes  
**9**  
m<sup>2</sup> in area  
**9.3 million**  
DWT in capacity  
**5.6 million**

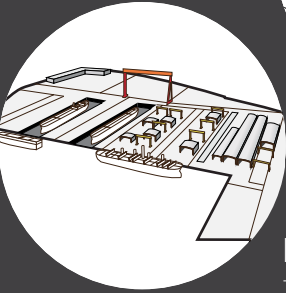
- VLCC/Suez/Aframax Tanker
- LNG Carrier/FSRU
- VLOC/Capesize Bulk Carrier
- PCTC/Ro-Ro
- 5K+ Containership
- VLGC
- Drillship



## HSHI (Mokpo)

drydocks  
**2**  
berth  
**1**  
m<sup>2</sup> in area  
**3.3 million**  
DWT in capacity  
**2.3 million**

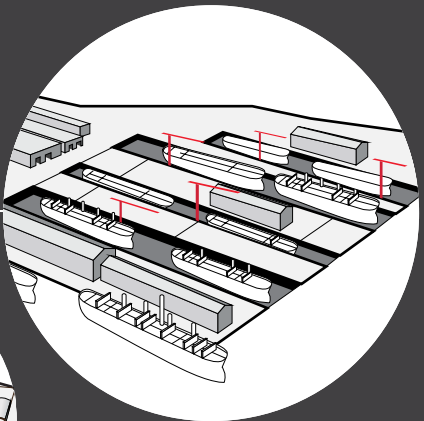
- VLCC/Suez/Aframax Tanker
- LNG Carrier/FSRU
- VLOC/Capesize Bulk Carrier
- PCTC
- 5K+ Containership
- VLGC
- Drillship



## HVS (Vietnam)

drydocks  
**2**  
m<sup>2</sup> in area  
**1 million**  
DWT in capacity  
**0.48 million**

- Product/Chemical Tanker
- Handy/Panamax Bulk Carrier
- Feeder Containership



## HMD (Ulsan)

drydocks  
**4**  
m<sup>2</sup> in area  
**0.7 million**  
DWT in capacity  
**1.5 million**

- Product/Chemical Tanker
- MGC (LPGC, LEGC, LNGC, LNG Bunkering)
- PCTC
- Con-Ro
- Ro-Ro
- Feeder Containership





# HYUNDAI HEAVY INDUSTRIES

2,020 ships

300 shipowners

9,300,000 m<sup>2</sup>

21,300 employees  
\*shipbuilding 8,800



As the world's leading shipbuilder, Hyundai Heavy Industries Shipbuilding Group has 15% share of the world shipbuilding market.

The shipyard had its ground breaking in 1972 and has since then delivered over 2,000 ships to about 300 shipowners in 50 countries. HHI prides itself on its sterling record of client satisfaction.

HHI's shipbuilding facility is something that probably cannot be found anywhere else in the world. With a high level of automation and new production technologies ranging from welding robots and indoor production of 40-meter long blocks to the environmentally controlled paint shop, HHI offers a number of advantages: greater productivity gains, reduced building times and, above all, superb ship quality.

## FACILITIES

DOCK	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8	No. 9	Gunsan
Size (Length)	390 m (165 m)	500 m	672 m	380 m	380 m	260 m	170 m	460 m	460 m	700 m
Size (Width)	80 m (47 m)	80 m	92 m	65 m	65 m	43 m	25 m	70 m	70 m	115 m
Size (Depth)	12.7 m	12.7 m	13.4 m	12.7 m	12 m	12 m	11 m	12.7 m	12.7 m	18 m
Crane (Goliath)	1x1,290 T 2x450 T		1x1,290 T 2x450 T					1x900 T	1x900 T	1x1,650 T
Crane (Jib)	2x40 T 2x30 T	2x40 T 2x30 T	1x150 T 1x80 T 2x30 T 1x20 T	2x350 T 1x200 T 1x150 T 1x80 T	2x350 T 1x200 T 1x150 T 1x80 T	1x200 T 1x150 T 1x20 T	1x200 T 1x150 T 1x20 T	4x30 T 1x20 T	4x30 T 1x20 T	2x40 T 1x30 T
Max. Size DWT	700,000	700,000	1,000,000	400,000	400,000	150,000	150,000	500,000	500,000	1,300,000

Combined Length of Outfitting Quay: 7,400 m



# HYUNDAI SAMHO HEAVY INDUSTRIES

**640** ships

**100** shipowners

**3,300,000** m<sup>2</sup>

**3,700** employees

Leading the industry through cutting-edge technology and modern equipment, HSHI, with a yard of 3.3 million m<sup>2</sup>, boasts an optimized process flow, from unloading shipbuilding materials to delivering finished products.

The shipyard is surrounded by islands so the location itself serves as a natural breakwater against typhoons, tsunamis and other natural disasters. The efficient yard layout coupled with cutting-edge facilities can deliver exceptional competitiveness. Ever since our yard began to be constructed in 1992, HSHI has accumulated the world's best technology and has built world-class Containerships, Tankers, Car Carriers, LNG Carriers, LPG Carriers and other ships.

HSHI offers offshore plants on a turnkey basis including sales, purchase, design, manufacturing, transportation, sea establishment and test run. HSHI is also capable of building special oceanic projects in various fields such as Drillships, Semi-submersible Rigs, FPU's and FPSO's.



## FACILITIES

DOCK	No. 1 Dock	No. 2 Dock	No. 1 Berth	Floating Dock
Size (Length)	504 m	594 m	492 m	335 m
Size (Width)	100 m	104 m	65 m	70 m
Size (Depth)	13 m	13 m		24 m
Crane (Goliath)	2 x 600 T	2 x 900 T	1 x 1,200 T	
Crane (Jib)	4 x 40 T, 1 x 80 T	2 x 40 T	2 x 50 T	2 x 45 T
Max. Size DWT	800,000	1,000,000	500,000	80,000 T (Lifting)

Combined Length of Outfitting Quay: 3,350 m







# HYUNDAI MIPO DOCKYARD

950 ships

700,000 m<sup>2</sup>

140 shipowners

3,300 employees



Hyundai Mipo Dockyard (HMD), founded in 1975, has been acknowledged as one of the leading and most versatile shipbuilders in the sectors of medium-sized conventional and specialized vessels.

HMD has specialized in building the medium range Product/Chemical Tankers and Gas Carriers (LPGC, LEGC, LNGC, LNG Bunkering) and has much experience to build a wide range of ship types such as Containerships, Bulk Carriers, PCTCs, Container Ro-Ro Ships, Ro-Ro Ships, Asphalt Carriers, Offshore Supply Vessels, Drillships, Cable Layers, Pipe Layers, FPSO, Car Ferry & Passenger Ships or any customized ship design.

HMD is at the forefront of developing the latest “Eco & Green” designs to satisfy increasing global demand. HMD’s R&D team of experienced and innovative designers using a state-of-the-art engineering system is constantly searching to improve its portfolio of designs with the latest generation of engines, optimized hull forms and energy-saving and environmental-friendly technologies.

Never resting on its past accomplishments, HMD will always move forward to share its vision of a bright future with customers.

## FACILITIES

DOCK	No. 1	No. 2	No. 3	No. 4
Size (Length)	380 m	380 m	380 m	295 m
Size (Width)	65 m	65 m	65 m	76 m
Size (Depth)	12 m	12 m	12 m	12 m
Crane	6 x 200 T		6 x 200 T	
Max. Size DWT	400,000	400,000	400,000	350,000
QUAY	No. 1	No. 2	No. 3	No. 5
Size (Length)	720 m	195 m	870 m	480 m
Crane	3 x 30 T / 1 x 20 T	1 x 20 T	4 x 30 T	Tower Cranes



# HYUNDAI-VINASHIN SHIPYARD

80 ships

17 shipowners

1,000,000 m<sup>2</sup>

3,000 employees

In Vietnam, HMD has devolved its repair and conversion business to Hyundai-Vinashin Shipyard (HVS) with its invaluable and accumulated know-how gained from repair and conversion business.

Since its operation in 1999, HVS performed repair and conversion business including offshore units (platform), upgrading and life extension works, elongation of PCTCs and conversion of various type of ships.

Accumulating diverse experience through repair and conversion business, HVS entered into the newbuilding business in 2007 with the aim of building quality ships to contribute world shipping industry.

With good reputation on Product/Chemical Tanker and Bulk Carrier sectors, HVS will mark its prestigious position in the worldwide shipbuilding industry with the full support from HMD in engineering and procurement of material.



## FACILITIES

DOCK	No. 1		No. 2	
Size (Length)	260 m		380 m	
Size (Width)	45 m		65 m	
Size (Depth)	13 m		13 m	
Crane	2 x 250 T		1 x 450 T (Goliath) / 1 x 80 T / 1 x 30 T	
Max. Size DWT	80,000		400,000	
QUAY	No. 1	No. 2	No. 3	No. 5
Length	500 m	500 m	250 m	100 m
Crane	1 x 30 T	1 x 30 T	1 x 30 T	1 x 30 T



OUR PRODUCT RANGE

TANKER



CONTAINERSHIP



LNG CARRIER



LPG CARRIER



BULK CARRIER



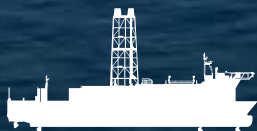
PCTC



RO-RO SHIP



DRILLSHIP







# TANKER

HHI Shipbuilding Group is leading the tanker market with its streamlined eco-friendly designs, especially in VLCC (Very Large Crude Carrier) segment ever since its first delivery in 1974. We are striving to take another leap in developing greener and more fuel-efficient technology for tankers for the future as well as designing new systems for next generation smart ships.

## WHY CHOOSE OUR ECO TANKER

- Highly skilled and fully qualified engineers providing best solution to environmental regulations such as lower SOx limits
- Proven design with unparalleled performance records
- Satisfying customer's needs by providing various technical solutions
- Hull form optimization
- Low friction paint
- Propulsion efficiency with energy saving devices
- Engine optimization

## PRODUCT RANGE

- VLCC
- Suezmax/Aframax Tanker
- LR3/LR2/LR1 Product Tanker
- MR Product/Chemical Tanker
- Shuttle Tanker
- Asphalt Carrier
- Methanol Carrier

1. HSHI: 318,000 DWT VLCC for Samco
2. HHI: 157,000 DWT Shuttle Tanker for KNOT
3. HSHI: 115,000 DWT Crude Oil Tanker for Sovcomflot
4. HHI: 115,000 DWT P/C for Kyklades
5. HHI: 320,000 DWT VLCC for ASC







1 2 3 4

# TANKER

## MIPO PRODUCT & CHEMICAL TANKER

- The prestige Product/Chemical Tankers so called "MIPO TANKER" gained a reputation as a world best Tanker from the incomparable performances over 600 vessels with its unbeatable high technology and premium quality.



6



5

1. HSHI: 159,000 DWT Crude Oil Tanker for Diamond S. Shipping
2. HMD: 75,000 DWT P/C for Gulf Energy Maritime
3. HMD: 50,000 DWT P/C (methanol fuelled) for Westfal-Larsen
4. HMD: 37,000 DWT P/C for CIDO Shipping
5. HMD: 50,000 DWT P/C for Scorpio Tankers
6. HMD: 30,000 DWT Asphalt Carrier for Wisby Tankers



# CONTAINERSHIP

HHI Shipbuilding Group boasts the world’s largest performance record in this Containership segment. HHI’s Ulsan yard can construct as many as 20 units, while HSHI can construct as many as 16 units of 14,000-TEU-or-more containership (Ultra Large Containership) per year.

- 1. HHI: 19,200 TEU Containership for MSC
- 2. HHI: 14,500 TEU Containership for UASC
- 3. HSHI: 10,500 TEU Containership for Hapag-Lloyd
- 4. HSHI: 9,000 TEU Containership for Asiatic Lloyd
- 5. HMD: 2,800 TEU Containership for PIL
- 6. HMD: 1,900 TEU Containership for CK Line
- 7. HMD: 1,000 TEU Containership for CK Line



2	3
4	5
6	7



1

## WHY CHOOSE OUR CONTAINERSHIP

- Highly skilled and fully qualified engineers
- Proven design with unparalleled performance records
- Satisfying customer’s needs by providing various technical solutions
- Low friction paint
- Engine optimization

## MIPO CONGREEN

- HMD Green Containership so called “CONGREEN 2000” provides customers with an innovative design which ensures maximized cargo capacity with superlative speed performances in Feeder Containership segment by using neo optimization technique of Hyundai Mipo Dockyard.

## PRODUCT RANGE

- 19,000/16,000/14,000/11,000/9,000 TEU Containership
- 2,500/1,800/1,600/1,000 TEU Containership



# LNG CARRIER, FSRU & BV

HHI Shipbuilding Group is the world's leader in newbuilding of LNG (Liquefied Natural Gas) Carriers and FSRUs (Floating Storage & Regasification Unit) with extensive experience and accumulated know-hows.

We are the only shipbuilder in the world capable of providing both membrane and moss-type solutions for LNG cargo containment. We also offer a wide range of propulsion systems including XDF, MEGI and TFDE, allowing us to meet our clients' various operational and technical requirements.

HHI Shipbuilding Group is always attentive to the needs of our clients and we are constantly striving to offer innovative solutions. With such efforts, we have won the world's first order for FSRU in 2011. Since then, HHI Shipbuilding Group has managed to sustain its global leadership by continuously coming up with more cost-effective solutions that make our FSRUs more competitive.

In line with the market trend, we also offer high-quality LNG Bunkering Vessels (BV) for which we won our first order in 2016.

### WHY CHOOSE OUR LNG CARRIER

- Low FOC: Hull form, propeller & rudder optimization
- Energy saving devices: Hi-Rudder & Hi-Fin
- Low BOR: 0.085% with membrane Mark III cargo containment system
- Wide-range of BOG management solutions are provided including Hi-ERS, SMR & Hi-SGAS ready for customization

### WHY CHOOSE OUR LNG BV

- BOG management: Dual fuel engine & semi-pressurized tanks
- High maneuverability: bow/stern thrusters
- Efficient operation: Power take-off & power take-home

### WHY CHOOSE OUR FSRU

- Performance proven by successful deliveries & operations
- Reliable design of indirect-heating regasification system (Hi-ReGAS)
- Engineering capabilities to satisfy client's diverse operational requirements (reliquefaction plant, mooring system, MSO compressor, etc)

### PRODUCT RANGE

- 180,000/174,000 CBM Membrane LNG Carrier,
- 173,000 CBM Moss LNG Carrier
- 180,000/170,000 CBM LNG FSRU
- 30,000/20,000/10,000 CBM LNG Carrier
- 15,000/7,500/6,600 CBM LNG BV

- 1
- 2
- 3
- 4
- 5

1. HHI: 176,000 CBM LNG Carrier (Membrane) for Knutsen
2. HHI: 170,000 CBM LNG FSRU (Membrane) for Hoegh LNG
3. HSHI: 162,000 CBM LNG Carrier (Membrane) for Maran Gas
4. HHI: 150,000 CBM LNG Carrier (Moss) for MISC
5. HMD's newly developed 6,600 CBM LNG Bunkering Vessel





# LPG CARRIER

HHI Shipbuilding Group dominates the LPG Carrier market by its technological superiority and outstanding quality. In consequence, HHI Shipbuilding Group is maintaining 40% market share of VLGC order-book and 45% market share of VLGC fleet. Also, we are maintaining 70% market share of MGC order-book and 61% market share of MGC fleet.

Our constant innovation has resulted in the application of the world's first flame-retarding insulation that was developed in cooperation with insulation system manufacturers to LPG Carrier's cargo tank.

- 1. HSHI: 84,000 CBM LPG Carrier for Geogas
- 2. HHI: 84,000 CBM LPG Carrier for KSS Line
- 3. HHI: 82,000 CBM LPG Carrier for Petredec
- 4. HHI: 60,000 CBM LPG Carrier for Yara
- 5. HMD: 38,000 CBM LPG Carrier for West Africa LPG
- 6. HMD: 22,000 CBM LPG Carrier for Navigator Gas
- 7. HMD: 12,000 CBM Ethylene Carrier for Eletson



2	3
4	5
6	7



1

## WHY CHOOSE OUR LPG CARRIER

- Deep experience and knowledge
- High technology
- Engineering capabilities and first-class production facilities
- Magnificent performance records with the lion's share of the world VLGC order-book
- Proven designs
- Customer oriented technology (Cargo manifold flexibility: OCIMF & Japanese Ports Compliance, enhanced re-liquefaction plant)
- Flexibility in responding to the client's technical request
- Flexible building capacity
- LPG Carrier oriented newbuilding facilities
- LPG Tank fabrication shop
- Berths specialized for building LPG Carriers

## PRODUCT RANGE

- VLGC (84,000/79,300 CBM LPG Carrier)
  - \* 79,300 CBM LPG Carrier is the maximum available design for old Panama canal transit (Patent Filed)
- LGC (60,000 CBM LPG Carrier)
- MGC (38,000/22,600/22,000 CBM LPG Carrier)
- 37,000/21,000/12,000 CBM Ethylene Carrier



# BULK CARRIER, PCTC & RO-RO SHIP

Delivering around 22% of the world's total VLOC fleets, HHI Shipbuilding Group confidently takes on every challenge that the bulk carrier owners require. We have created a new era of Bulk Carrier construction with securing an order of world's first LNG-Fueled Bulk Carrier.

HHI Shipbuilding Group, dominating one sixth of world PCTC fleet, delivers innovative and sustainable vessels to ocean-transport and logistics companies for carrying automobiles and other rolling cargo.

## PRODUCT RANGE

- Bulk Carrier
- Car Carrier
- Ro-Ro Ship
- Con-Ro Ship
- Ro-Ro Passenger Ship (ROPAX)

1	2	3
4	5	6

1. HHI: 323,000 DWT VLOC for Bergesen D.Y.A/S
2. HSHI: 250,000 DWT VLOC for SK Shipping
3. HSHI: 8,000 UNIT PCTC for Wilhelmsen Lines
4. HMD: 7,700 UNIT PCTC for Ray Shipping
5. HHI: 3,400 L.M. ROPAX for Stena RoRo
6. HMD: 10,800 DWT Ro-Ro Ship for Grimaldi







## DRILLSHIP

Since HHI Shipbuilding Group's first drillship was appraised by our customer with its excellent performance, HHI has delivered about 20 drillships to various drillship owners.

### WHY CHOOSE OUR DRILLSHIP

- Purpose-built drillship design
- Large free deck area
- Better position keeping
- Protected under deck passageway with electric cable/Utility Line Arrangement
- Canister Type Retractable Thruster (Optional)

### PRODUCT RANGE

- Drillship (HHI-HD12000, HHI-GUSTO P10000)
- Semi-submersible Rig





HHI  
SHIPBUILDING  
GROUP'S  
INTEGRATION

FOR: RESEARCH & DEVELOPMENT

QUALITY MANAGEMENT

HEALTH, SAFETY &  
ENVIRONMENTAL MANAGEMENT

CUSTOMER SERVICES  
- HYUNDAI GLOBAL SERVICE (HGS)

LIFE AT HHI





# RESEARCH & DEVELOPMENT

## HHI'S VISION FOR R&D

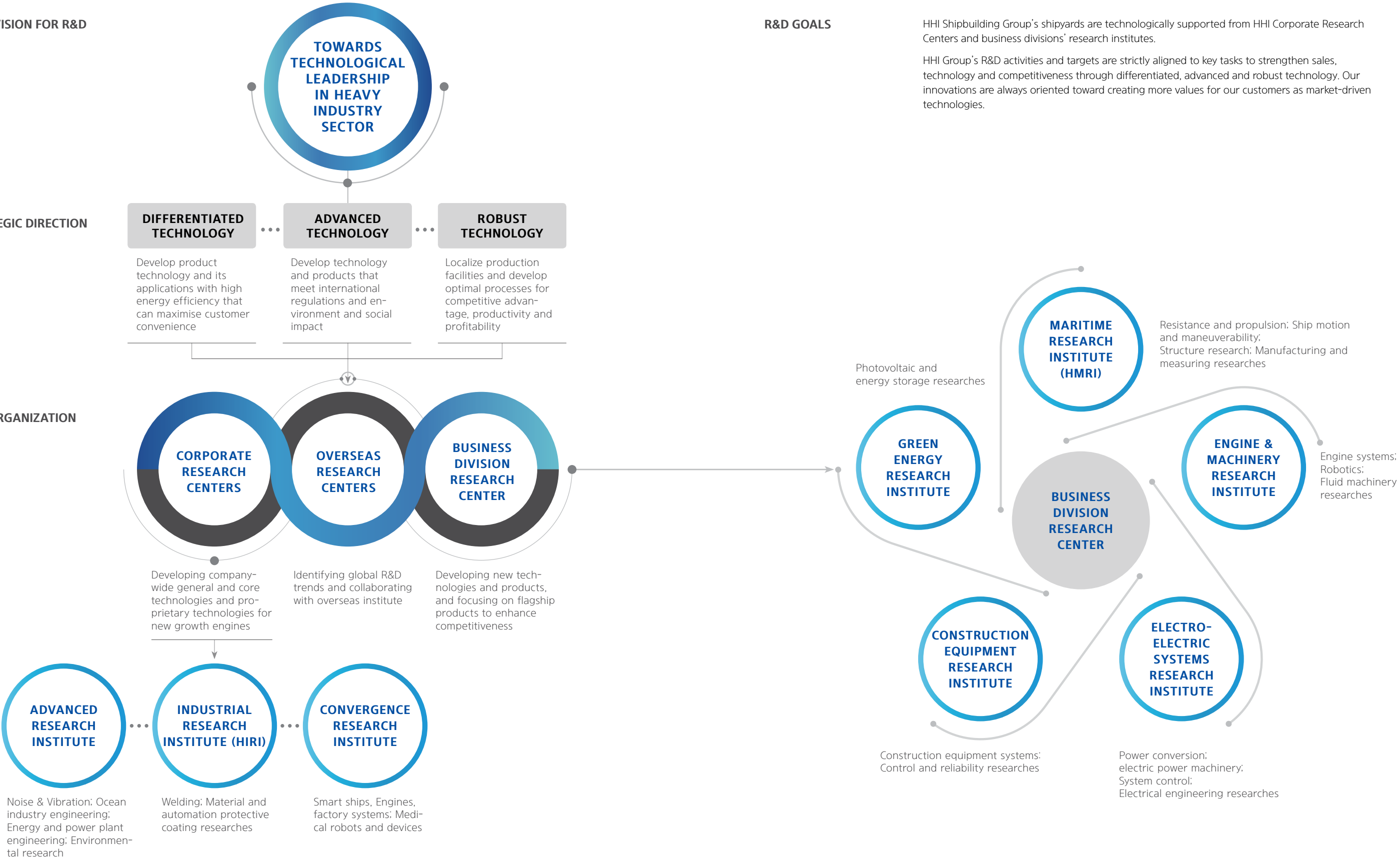
## STRATEGIC DIRECTION

## R&D ORGANIZATION

## R&D GOALS

HHI Shipbuilding Group's shipyards are technologically supported from HHI Corporate Research Centers and business divisions' research institutes.

HHI Group's R&D activities and targets are strictly aligned to key tasks to strengthen sales, technology and competitiveness through differentiated, advanced and robust technology. Our innovations are always oriented toward creating more values for our customers as market-driven technologies.





# QUALITY MANAGEMENT

## QUALITY MANAGEMENT POLICY

HHI Group has established a strict quality management system to provide high quality products and services, earning customers' trust and confidence from customers, and meeting legal and regulatory requirements by:

- Minimizing the quality failure cost
- Establishing the standardization of design and production
- Setting up a cooperative system for quality control

## MISSION

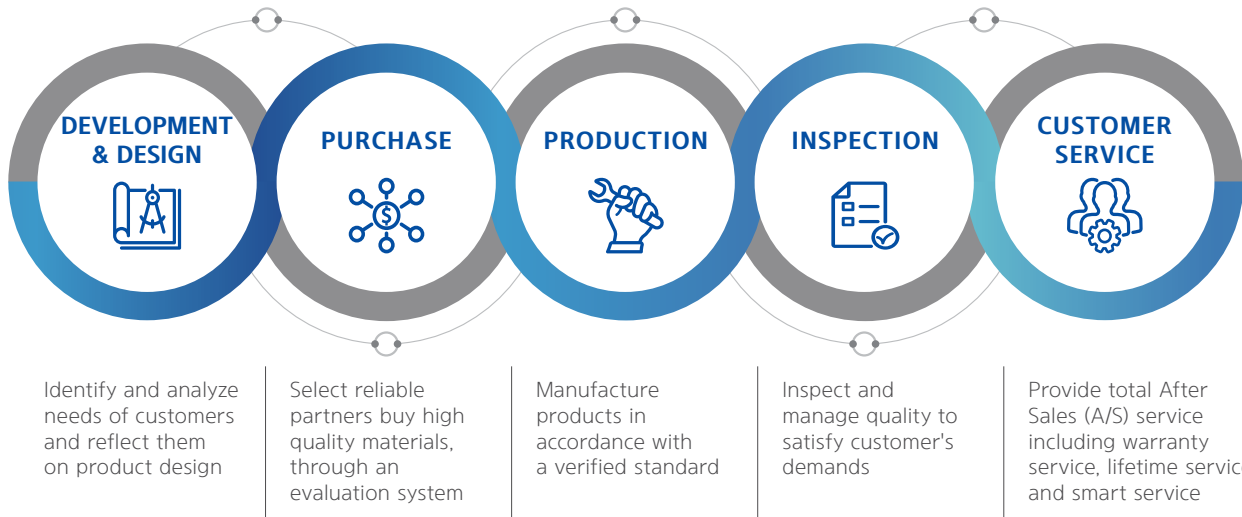
**ENHANCE HHI'S COMPETITIVENESS THROUGH QUALITY IMPROVEMENT, PLANNING AND INNOVATION**

## VISION



## PROCESS

HHI Shipbuilding Group's shipyards - HHI, HSHI, HMD and HVS can achieve higher level of product quality by sharing policies, methodology and principles in the whole process of development, design, purchasing, production, inspection and customer service.



## INTERNATIONAL CERTIFICATION STATUS

HHI Group complies with the Quality Management System (ISO 9001) in accordance with international quality standards and conduct thorough quality inspections over the entire process with international classification societies and authorized inspection agencies.

# HEALTH, SAFETY & ENVIRONMENTAL MANAGEMENT

## HSE SLOGAN

## HSE POLICY

## BACK TO THE BASICS

HHI Shipbuilding Group implements the group-wide integrated HSE policies to reduce risk of accidents at worksites, to enhance health of our workers and to minimize any environmental impact arising from all our processes of building ships.

Above all, safety is our top priority that we should abide by to provide high quality ships to our clients on time and to guarantee all workers' welfare working at worksites of HHI Shipbuilding Group and its subcontractors.

## SAFETY DISCIPLINE & ACTIVITIES



## QUALIFICATION

All HSE activities are performed in accordance with global safety management standards, OSHAS 18001 Occupational Health and Safety Management Systems, while adhering to our own safety regulations and systems including 12 Golden Safety Rules and enhancing safety training through Safety Learning Center.

## JOINT SAFETY ACTIVITIES

HHI Shipbuilding Group organizes special sessions for safety training with HHI people and supervisors hired by the shipowners and classification societies, thus sharing HSE awareness and promoting safety engagement of all stakeholders.



# CUSTOMER SERVICES - HYUNDAI GLOBAL SERVICE (HGS)

## HGS SLOGAN

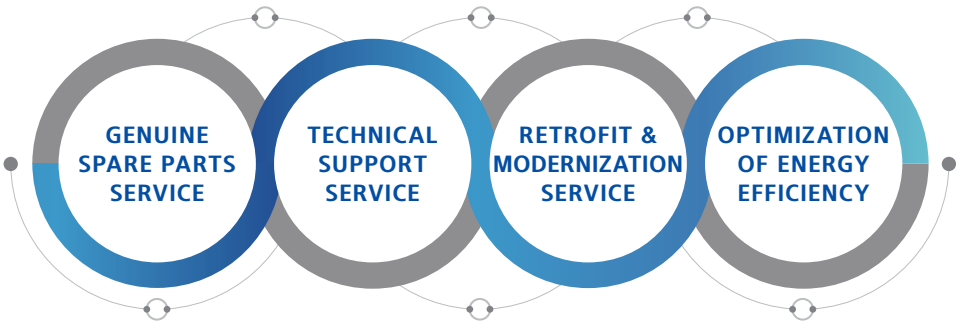
## A TOTAL SOLUTION PROVIDER

### ABOUT HSE

Hyundai Global Service has been established in 2016 to take care of all aftermarket services for HHI Group customers. HGS provides services for our clients so that the life of their ships, machinery and power plants can be extended even after the warranty period. Our one-stop service center ensures that the Hyundai brand ships and products are repaired, optimized and upgraded to meet industry standards throughout their entire lifespan.

Clients can get access to all the technical support they need, such as purchasing spare parts from the original equipment manufacturers (OEM), getting performance optimization for long term efficiency and requesting retrofits when necessary.

By providing a range of services, HGS can identify, monitor, track and solve your problems through its integrated computerized feedback system and also prevent recurrence of those problems.



### GENUINE SPARE PARTS SERVICE

HGS can provide an efficient way to make your ships keep operating with a rapid and reliable supply of OEM spare parts throughout the lifespan of your ships. Under the rapidly changing technological environment, you experience difficulties in finding suitable parts for maintaining optimal performance of your ships. HGS is your choice for providing right parts in time for replacement.

### TECHNICAL SUPPORT SERVICE

Experienced and specialized experts will provide quick and effective technical assistance for your ships. With over 40 years of experience in shipbuilding industry, we know every corner of your ship and you can count on us to provide technical support tailored to your needs.

### RETROFIT & MODERNIZATION SERVICE

This is for meeting sustainable requirements of your ships. Environmental issues are becoming a global concern. Many global and local regulations have set safety standards to control the level of emissions, which are expected to become stricter in the future. HGS will continuously look for and develop new technologies for upgrading and keeping your ships sustainable by retrofitting and modernization.

### OPTIMIZATION OF ENERGY EFFICIENCY

You can achieve significant reduction in cost and fuel consumption through HGS's system improvements. HGS develops solutions that optimize ships' energy efficiency through a joint research with Hyundai Maritime Research Institute (HMRI). HGS can offer solutions to improve your ship's performance in a more efficient way using bulbous bow re-design, trim optimization, propeller re-design, and smart ship system.

# LIFE AT HHI

## HHI'S COMMITMENT

HHI Group is committed to providing a variety of lifestyle and settlement services for our clients' representatives who come to live in Ulsan and Mokpo. We aim at providing comfortable living environment to residents or clients who left their home countries: enriching the vitality of international communities in Korea: and making them to feel comfortable as if they are in their home countries.

## HOUSING

HHI Group provides accommodations ranging from studios, to three-bedroom apartments and to bungalows at Foreigners' Compounds for long-term foreign residents at Ulsan and Mokpo. They give out a laidback, fresh ambiance and a sense of comfort and security, allowing residents to experience multinational cultures and upbeat community relationship. For short-term and business visitors, HHI Group can offer accommodation at the five-star Hotel Hyundai Ulsan and Mokpo.

## SCHOOL

HHI Group established Hyundai Foreign School (HFS) in 1982 to provide primary and middle-school education to the children of the foreign community at Hyundai Foreigners Compound in Ulsan. HFS is a member of the Council of International School (CIS) and a member of Cambridge International Examinations. The school is staffed by fully qualified teachers who have a wealth of experience both in the UK and overseas. Children, who live in Mokpo, can commute to Gwangju International School about an hour away from the shipyard of Hyundai Samho Heavy Industries.

## COMMUNITY FACILITIES IN ULSAN

HHI Group is operating various community facilities in Ulsan to help local people lead better and more enjoyable lives.

- **Hyundai Arts Center**  
Concert Hall, Cinema, Bowling Alley, Racquetball Courts, Indoor Rock Climbing
- **Hanmaeum Cultural Center**  
Swimming Pool, Gym, Basketball Court, Futsal Court, Tennis Court
- **Ulsan University Hospital**
- **Asan Sports Center**  
Ice Rink, Indoor Tennis Court, Outdoor Sledding Courts
- **Hyundai Hotel Ulsan**
- **Hyundai Department Store**



Hyundai Arts Center



Hanmaeum Cultural Center



Ulsan University Hospital



Asan Sports Center



Hyundai Hotel Ulsan



Hyundai Department Store

## COMMUNITY FACILITIES IN MOKPO

Hyundai Samho Heavy Industries (HSHI) provides foreign supervisors and their families with diverse services for more enjoyable living in Mokpo. HSHI provides spacious and comfortable site office for owners' and classification societies' representatives. It also operates foreigners' apartment complex, a five-star hotel, cultural & shopping centers featuring as follows:

- **Fitness Center, Swimming Pool, and Table Tennis Room**
- **Theater, Physical Therapy Room and Sauna**
- **Supermarket, Bank and Bakery**
- **Soccer Pitches**



Sports Center



Hyundai Hotel Mokpo



Cultural Centers



Soccer Pitches



# HYUNDAI HEAVY INDUSTRIES GROUP

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