
HEART OF
SHIPBUILDING
DREAM THE FUTURE
HSD engine

HSD engine

HSD Engine has become a world-class diesel engine maker
by supplying the highest quality products and
services since its inception over 35 years ago.
Its greatest achievement is not its world-class status,
but its ability to step up to new challenges
and innovate relentlessly.
HSD Engine is confident that in the near future
it will realize its vision to become
the No.1 global leader in marine engine industries.
Keep abreast of the formation of
HSD Engine of tomorrow.

STEADY PROGRESS

*"Heart of Shipbuilding — Dream the Future" encapsulates HSD Engine's strong will to become the pioneer and the heart of tomorrow's marine and marine engine industries.

Our Route 1 — new challenges

Production of the world's first and largest electronically controlled engine

HSD Engine has emerged as the leader of the next generation of engines, namely electronically controlled engines.
It was the first in the world to produce a large, electronically controlled ME engine in 2003 and the world's first and largest 14RT-flex96C engine in November 2005, opening a new chapter in the history of diesel engines and elevating the Korean shipbuilding industry's competitiveness to new heights.

Our Route 2 — constant growth

No. 2 global market share in marine engines.
100M BHP cumulative production in low speed engines.

Starting with a 200,000 BHP annual diesel engine production capacity in 1983, HSD Engine has grown to become the second largest marine engine company in the world with the support of its production capacity. Backed by more than 30 years of accumulated know-how and technology, it is supplying marine engines to major shipyards in China, Brazil, USA, the Philippines and Europe, as well as in Korea. In January 2017, 33 years after the production of its first marine diesel engine, the company achieved the milestone of 100M BHP in cumulative production of engines, solidifying its position as a top, global engine maker.

Our Route 3 —— better future

Commercialization of the world's first dual-fuel low speed engine and in-house development of a low temperature NOx reduction system

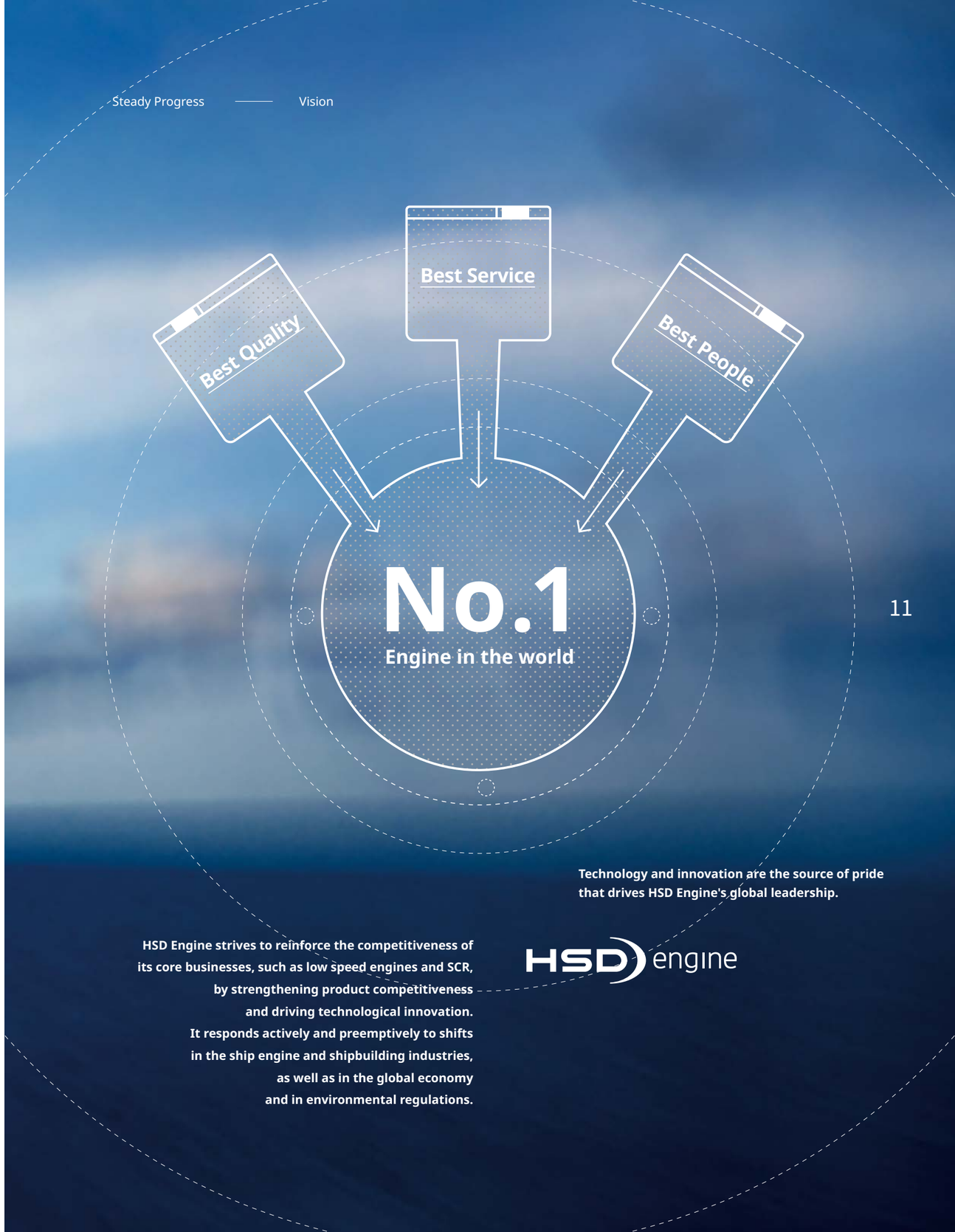
HSD Engine leads the world's eco-friendly engines market by being the first to commercialize dual-fuel low speed engines. Compared to conventional diesel engines, dual fuel engines use LNG, a clean fuel, as its main fuel source, significantly reducing OPEX and emission of pollutants, such as carbon dioxide, nitrogen oxides, and sulfur compounds. It is being hailed as a next-generation, eco-friendly engine.

In addition, preempting the demands of the NOx reduction market in an increasingly stringent regulatory environment, HSD engine developed DeINOx, the world's first low temperature NOx reduction system for ships. DeINOx is a breakthrough in the eco-friendly marine engine market that uses differentiated technology to remove more than 90% of nitrogen oxides from emissions, even at low temperatures.

VISION

HSD Engine's efforts to become No.1 in the world continues.

HSD Engine is working incessantly to beat the clock achieving its vision, "No.1 Engine in the World." Its goal is to achieve the highest level of competitiveness in terms of product quality, price, delivery and customer satisfaction in order to provide customers with the best quality and service in the world.



Technology and innovation are the source of pride that drives HSD Engine's global leadership.

HSD Engine strives to reinforce the competitiveness of its core businesses, such as low speed engines and SCR, by strengthening product competitiveness and driving technological innovation. It responds actively and preemptively to shifts in the ship engine and shipbuilding industries, as well as in the global economy and in environmental regulations.

CEO'S MESSAGE

HSD Engine will develop future growth engines by uncovering key customer needs and using its 35 year know-how amassed while focusing on the shipbuilding industry.

“HSD Engine is continuously evolving to boost customer satisfaction.”

HSD Engine is a comprehensive engine manufacturer that focuses on medium and low speed marine diesel engines, a key component of the shipbuilding industry, and the construction and maintenance of diesel-engine-based internal combustion power plants. It began with an annual capacity to produce 200,000 BHP in diesel engines in 1983 and overcame numerous challenges through constant innovation to emerge as the second largest ship engine maker in the world in terms of market share and a key component of Korea's global shipbuilding prowess.
HSD Engine reaffirmed its leadership in the global engine industry by producing the world's largest electronically controlled engine in 2005 and by reaching 100M BHP in cumulative production in low speed engines in January 2017.

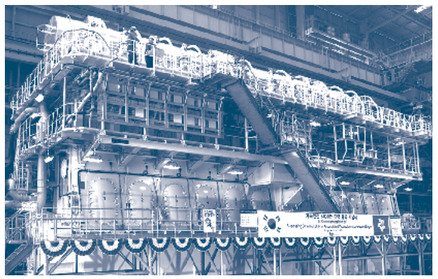
In particular, HSD Engine demonstrated its superiority in eco-friendly engines by using its know-how and technology to successfully commercialize the world's first dual-fuel electronically controlled low speed engine and develop eco-friendly systems.
In the future, HSD Engine will build its growth momentum by enhancing its portfolio, driving technological innovation, and boosting customer satisfaction through continuous quality innovation.
It will win greater respect by putting corporate social responsibility into practice through mutually beneficial corporate partnerships and involvement in local communities.

Thank you for your continued interest and support of HSD Engine.

CEO, HSD Engine
Young youl Koh

HISTORY

The past and present path building a world-class company foretells the future of HSD Engine.



1983~1989
Launch of the engine business

1983
Launch of KHIC (Korea Heavy Industries & Construction)'s engine business

1983
License Agreement with MAN B&W of Denmark

1984
Commissioning of KHIC's first engine

1984
License Agreement with S.E.M.T. Pielstick of France

1984
License Agreement with Sulzer of Switzerland

1985
Completion of the Jeju diesel power plant

1990~1999
Growth of the engine business

1990
Completion of the Nam-Jeju diesel power plant

1994
Launch of Samsung Heavy Industries' engine business

1995
Commissioning of Samsung Heavy Industries' first engine

1995
Cumulative production exceeds 5M BHP

1995
Completion of the Guam diesel power plant

1998
Cumulative production exceeds 10M BHP

1999
Doosan Heavy Industries & Construction and Samsung Heavy Industries sign a joint venture agreement to establish a separate legal entity for engine production

1999
Incorporation of HSD Engine

2000~
Establishment of a global company

2000
Launch of the HSD Engine business

2000
Cumulative production reaches 15M BHP. Monthly production breaks world record.

2001
License Agreement for medium speed engines

2002
Inauguration of the integrated factory

2003
Completion of the Eritrea diesel power plant

2005
Commissioning of the world's largest electronically controlled engine (14RT-flex96C)

2005
Company name changed to Doosan Engine

2006
Inauguration of the Doosan Marine Industry (DMI) in Dalian, China (currently HSD Marine Industry)

2007
Inauguration of assembly plant no. 3

2010
World's first production of high-end, eco-friendly, low-vibration engines

2011
Successful Listing on the Korea Exchange

2011
Presidential award for Best Company for Mutual Growth

2013
First in the world to commercialize dual-fuel, low speed marine engines

2013
First in the world to develop low-temperature SCR for marine application

2017
Cumulative production of 100M BHP in low speed engines

2018
Company name changed to HSD Engine

STEADILY THE BEST

HSD Engine is a comprehensive engine maker that focuses on the production of marine engines, a key component of the shipbuilding industry, and the construction of diesel power plants. Today, it is a pillar of Korea's world-class ship-building industry and a dependable partner that never fails to deliver top-class products, highest quality parts and eco-friendly equipment, as well as impeccable service that meets customers' needs in a timely manner.

MARINE DIESEL ENGINES

HSD Engine offers dependable services ranging from design, production, and sales to after-sales service. It strives to preempt diverse customer needs and increasingly stringent environmental regulations.

DIESEL/GAS POWER PLANTS

Starting with the construction of a 40MW low speed diesel power plant in Nam-Jeju in 1990, HSD Engine has been supplying eco-friendly diesel power plants all over the world, including the 80MW low speed diesel power plant built in Guam in 1995.

ENGINE PARTS

HSD Engine is supplying diverse key components for engines and generating customer value by ensuring that engines operate in prime condition through its worldwide network.

ECO-FRIENDLY SYSTEMS

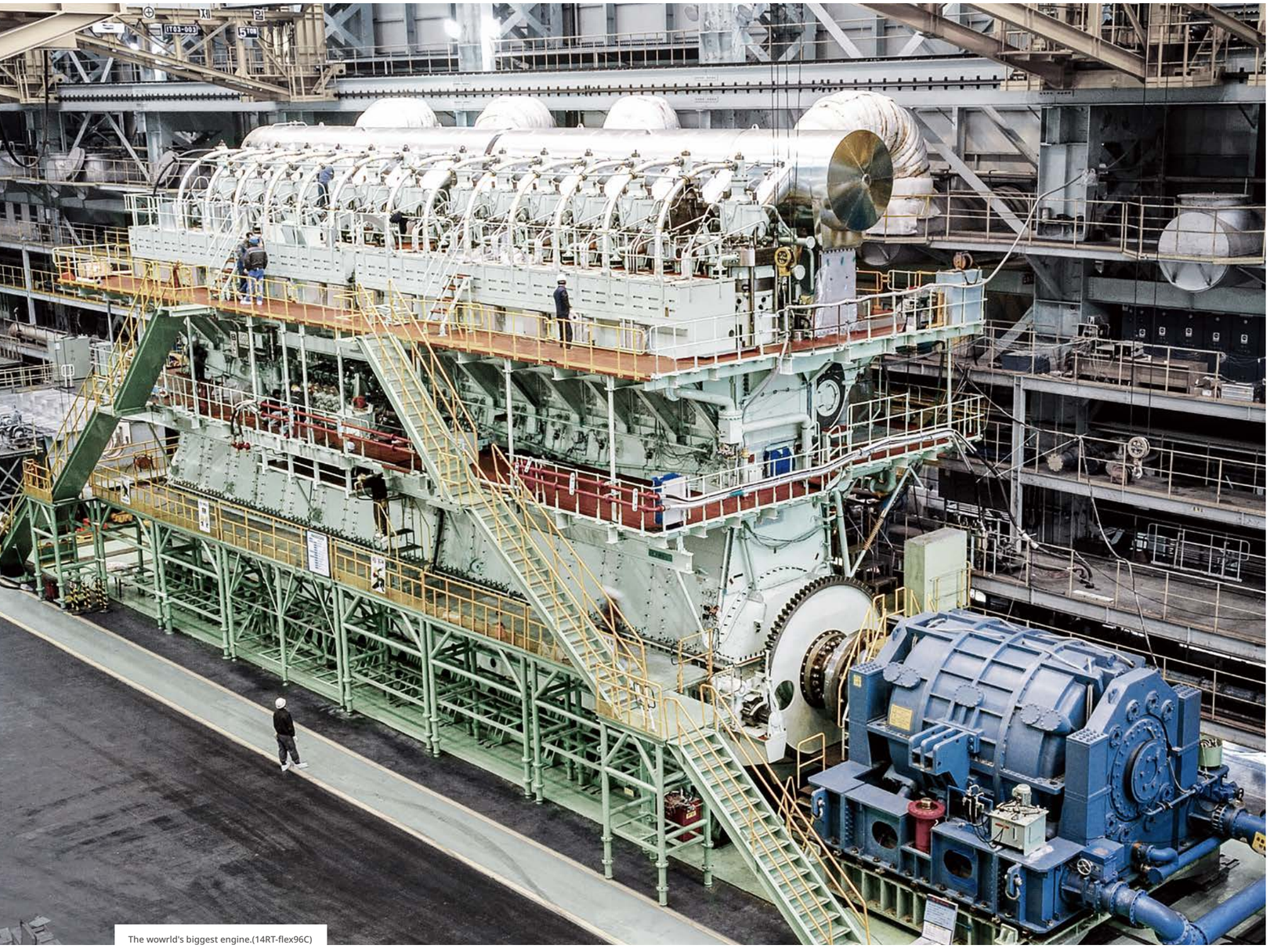
HSD Engine developed DeINOx, an effective, eco-friendly nitrogen oxide emissions reduction system, in-house in response to diverse NOx emission regulations affecting marine and diesel power plants.

CUSTOMER SERVICE

HSD Engine reaches out to customers to better understand their needs and to provide high quality service in a more speedy and friendly manner.

MARINE DIESEL ENGINES

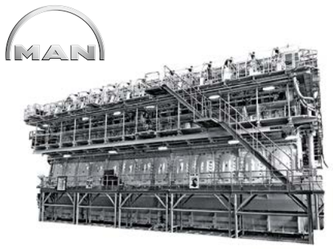
HSD Engine meets customers' diverse needs and strict environmental regulations using its abundant manufacturing experience and reliable service infrastructure to provide a wide range of services, including design, production, sales and after-sales service. The recognition of its large-size, low speed marine engine as a world-class product reaffirms the company's solid status as a top, global engine maker.



The wowrld's biggest engine.(14RT-flex96C)

Marine Diesel Engines

Starting with a mere 200,000 BHP annual production capacity of diesel engines in 1983, HSD Engine is currently a leader of the global engine market by manufacturing the world's largest electronically controlled engine and accounting for over 100M BHP in cumulative engine production. It supplies 700 BHP to 116,000 BHP medium and low speed diesel marine engines for primary or auxiliary propulsion or power generation in large or special ships, such as container ships, bulk carriers, VLCCs, and ULCCs. HSD Engine is making history in diesel engines with the production of world's first large, electronically controlled engine (2003) and the world's biggest engine (2005), as well as the world's first commercialization of a dual fuel low speed engine (2013).

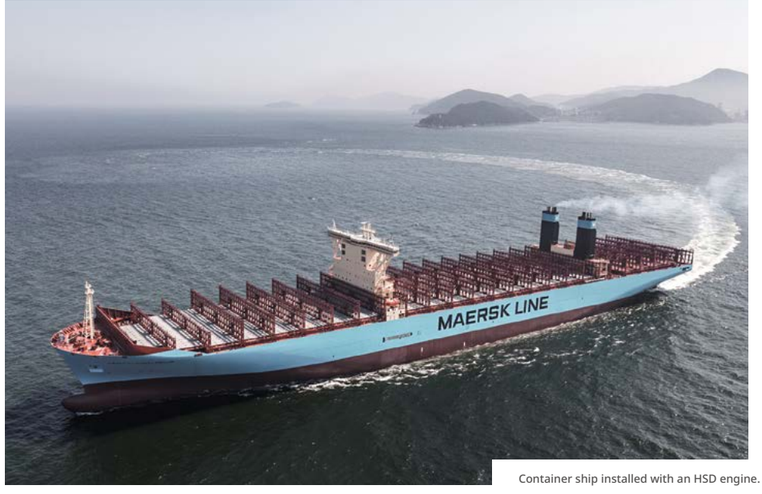


HSD-MAN ES

HSD Engine established a license agreement with 250-year-old MAN ES of Denmark in 1983. It has maintained a strong business partnership for over 35 years.

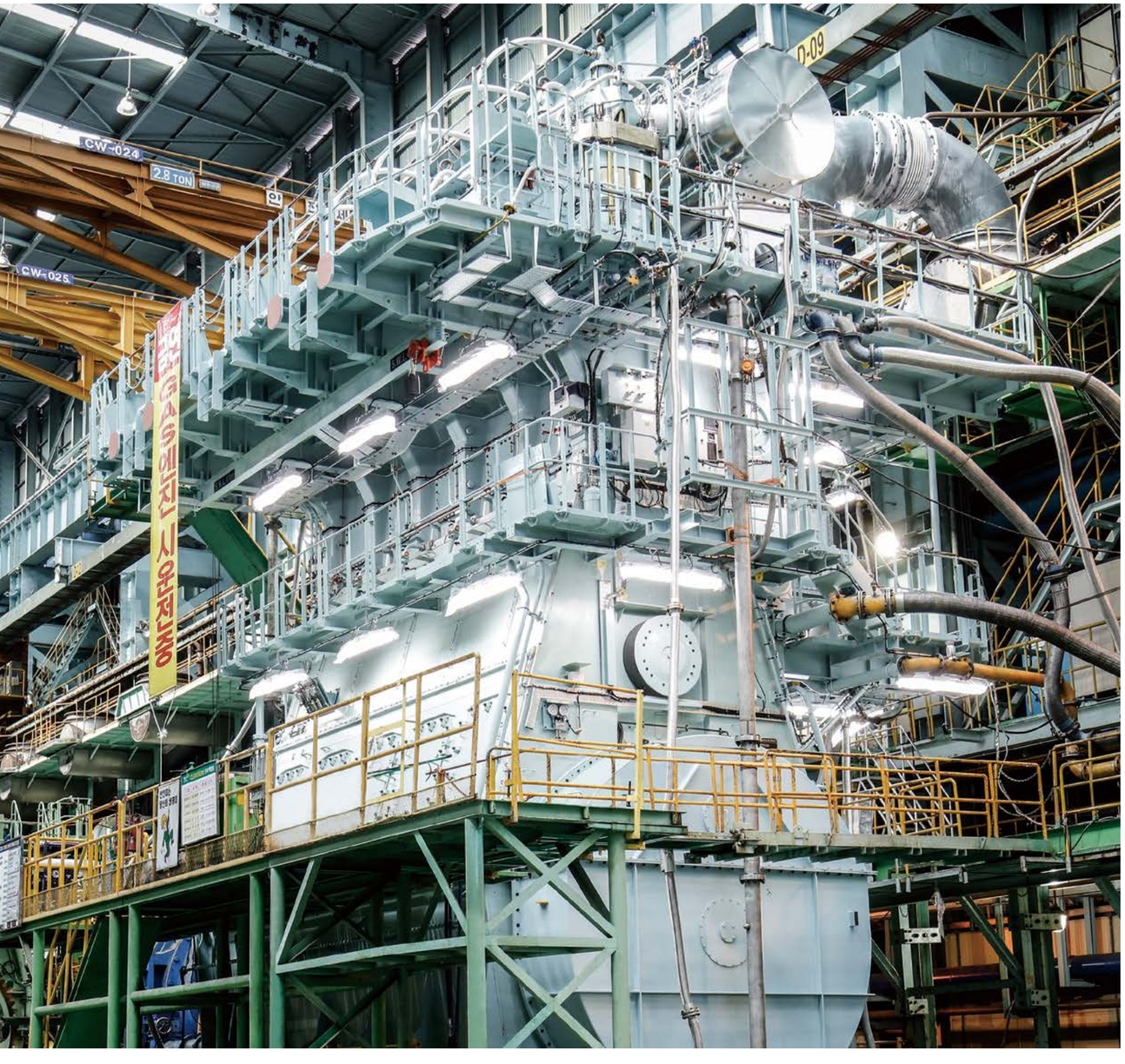
HSD-WinGD

HSD Engine also established a license agreement with WinGD in 1984. It conducts joint research to develop next-generation engines and technology to comply with increasingly stringent environmental regulations.



Container ship installed with an HSD engine.

HSD Engine's eco-friendly engines opened a new chapter in the global market with differentiated technological competitiveness.



LNG + DIESEL

Electronically Controlled Dual Fuel Engines MAN_ME-GI, WinGD_X-DF engine

HSD Engine was the first to commercialize electronically controlled dual fuel engines when it supplied the world's first ME-GI engine and gas supply system from MAN ES, which could be powered with LNG as well as heavy fuel oil, to an American shipping company in February 2013. In addition, it supplied WinGD's X-DF engine, the world's first low-pressure-gas-powered engine that uses world-class technology, to a domestic shipbuilder for a LNG carrier in August 2016. The electronically controlled dual fuel engine can significantly reduce OPEX by using LNG, a fuel that burns more cleanly than heavy fuel oil, as the primary fuel and heavy fuel oil as a supplementary fuel. It is regarded as the next-generation eco-friendly engine because it can reduce the emission of pollutants, such as carbon dioxide, nitrogen oxides and sulfur oxides, remarkably.

Improved fuel consumption

Reduction of NOx emissions

Eco-friendly High Efficiency Engines MAN-G, WinGD-X engine

HSD Engine's eco-friendly engines were developed to meet Tier II environmental regulations of the International Maritime Organization (IMO). Engine output was increased by extending the range of motion of pistons inside cylinders, and fuel consumption and emissions were significantly reduced. HSD Engine is leading the eco-friendly engines market by working together with top engineers to develop a high output marine engine with improved fuel efficiency and emissions reduction that meets customers' environmental needs.

DIESEL/ GAS POWER PLANTS

HSD Engine is using its abundant manufacturing experience to provide comprehensive services ranging from the design, production, construction and operation of diesel- and gas-based medium and low speed engine power plants to meet the demands and environmental requirements of domestic and overseas clients worldwide.

Jeju low speed diesel power plant

DMIL low speed diesel power plant, India

Low Speed Power Plants

After supplying a 40 MW low speed power plant in Nam-Jeju in 1990, HSD Engine began to export power plants throughout the world starting with a 80 MW power plant in Guam in 1995 and going further to countries like Papua New Guinea, India, Greece, Eritrea, Jeju and Mexico. Today, it occupies the top position in the global engine power market based on its technology, reliability and accrued experience.

Medium Speed Power Plants

After supplying a medium speed power plant in Jeju in 1985, HSD Engine has supplied power plants to Samsung Everland, the Korea Aerospace Research Institute, the Seongnam Passenger Terminal, and in countries such as the Philippines and Papua New Guinea. In addition, in recognition of the company's superior quality products and performance, it has supplied emergency generators to the Wolseong, Hanbit, Hanul and Saeul nuclear power plants.

Low speed diesel power plant (Kos, Greece)
Engine: HSD-MAN Diesel 7K60MC-S x 3 sets
Power generation: 34.8 MW

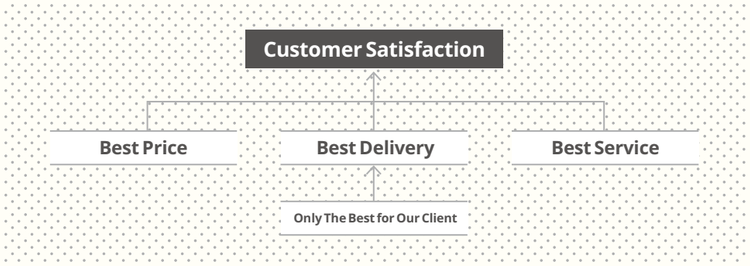
Cabras low speed diesel power plant (Guam, USA)
Engine: HSD-MAN Diesel 12K80MC-S x 2 sets
Power generation: 80.0 MW

ENGINE PARTS

HSD Engine aims to maximize customer value by implementing "3Best" (Best Price, Best Delivery, Best Service) throughout its global network.

HSD Engine's goal is to ensure that every HSD engine runs on its optimal condition by providing top quality service and supplying parts whenever and wherever they are needed through its global sales network.

3Best



Key Engine Parts

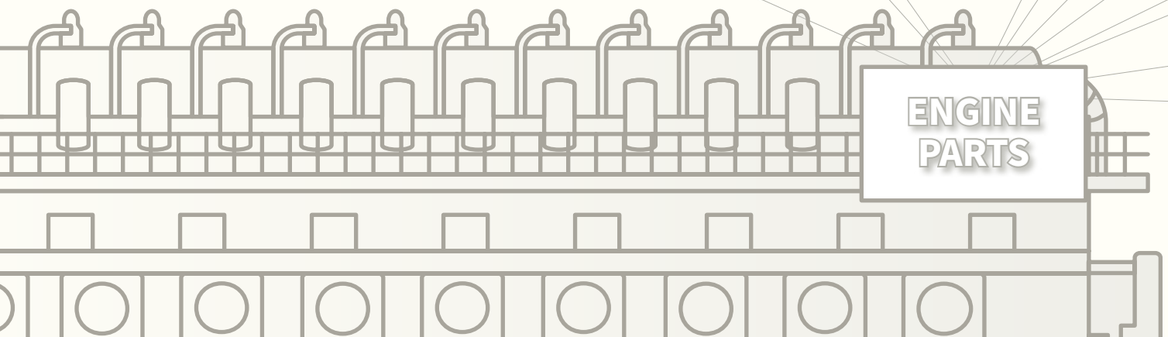
HSD Engine supplies a variety of genuine parts to service its engines. Key items include:

Piston Crown

Helps the piston rod to move up and down the cylinder liner by absorbing the explosive forces and air pressure of the combustion chamber.

Cylinder Liner

Structural component that guides the piston's movement and maintains pressure in the combustion chamber by preventing the discharge of pressure during the intake, compression, power and exhaust strokes of combustion.



Exhaust Valve Housing

Holds the exhaust valve spindle in place and guides its motion.

Exhaust Valve Spindle & Seat

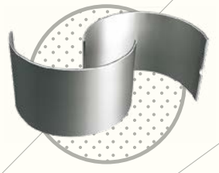
A spindle moves up and down the interior of an exhaust valve to release and draw in exhaust gases. Seats are assembled on the bottom of exhaust valve housings to function as valve seats for spindles.

Spindle Guide Complete

A fuel valve guide that injects high-pressure fuel from the fuel pump into the combustion chamber.

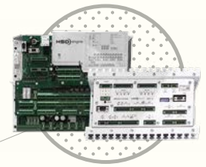
Pump Barrel With Plunger

Mounted on the fuel pump housing, it moves up and down to compress and generate high pressure fuel.



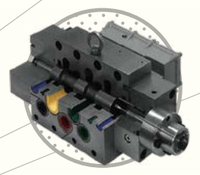
Main/X-Head/Con-rod Bearing

Support energy transmitted to the main drive heads during combustion.



Multi Purpose Controller(MPC) / Multi Purpose Controller-10(MPC-10)

Control modules for ME-type engines that are categorized as CCU, ECU, ACU, and EICU according to their function (control, interface, etc.) in engines and auxiliary devices.

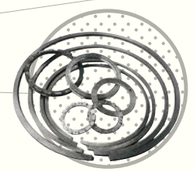


FIVA Valve

A valve component that controls the timing of fuel injection and the opening/closing of exhaust valves.

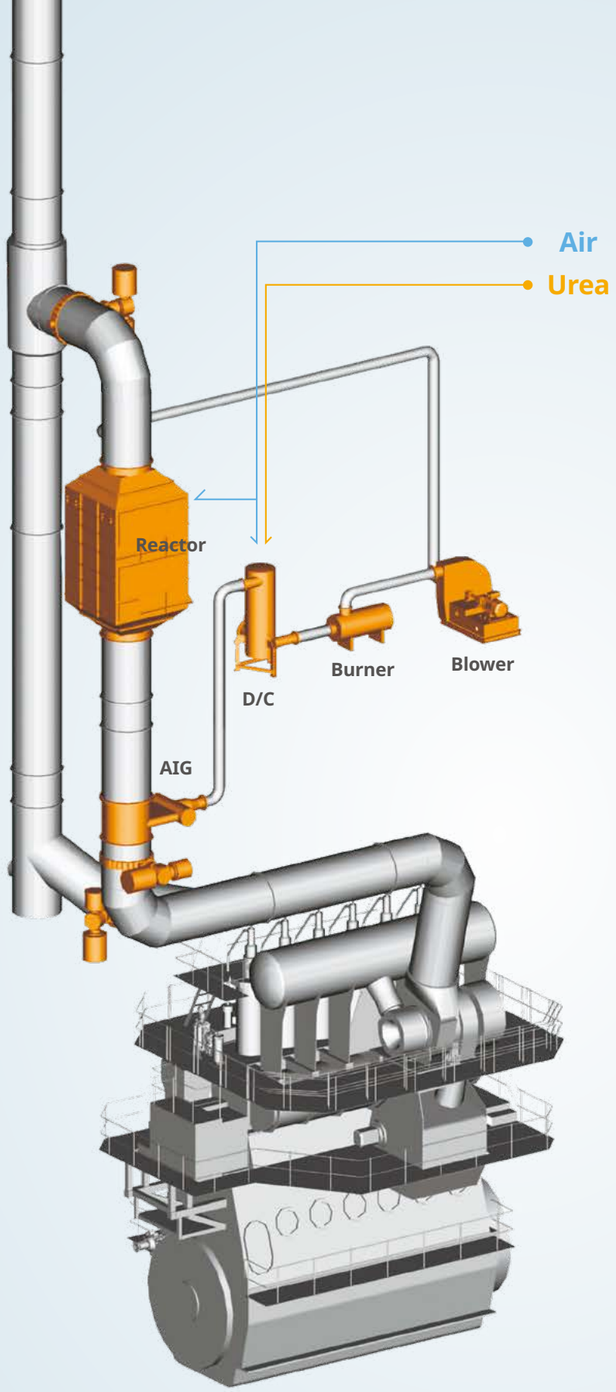
Puncture Valve

Opens the compression chamber with a pneumatic system to stop the discharge of fuel in the event of a sudden system shut down or activation of the stop signal.



Piston Ring

Seals gas generated during power stroke of combustion and lubricates the cylinder liner by creating a film of cylinder oil.



DeINOx® SCR System

DeINOx is an eco-friendly NOx reduction system developed using HSD Engine's proprietary technology to meet the diverse marine and industrial nitrogen oxide emission regulations.

HSD Engine is the first in the world to successfully win and commercialize a LP SCR commission as a result of its differentiated technology and fundamental competitiveness. It leads the global LP SCR market with its superior product quality and performance. HSD Engine's technology evolved a step higher with the development and commercialization of HP SCR products. The company provides integrated and differentiated solutions through the sale of world-class engines and SCR packages through its worldwide network.

*** LP SCR :**
Mounted on the rear end of the engine turbocharger.
Operates on low temperature exhaust gas.

*** HP SCR :**
Mounted on front end of the engine turbocharger.
Operates on high temperature exhaust gas.

*** AIG :**
Ammonia Injection Grid.

*** D/C :**
Decomposition Chamber Unit

ECO-FRIENDLY SYSTEMS

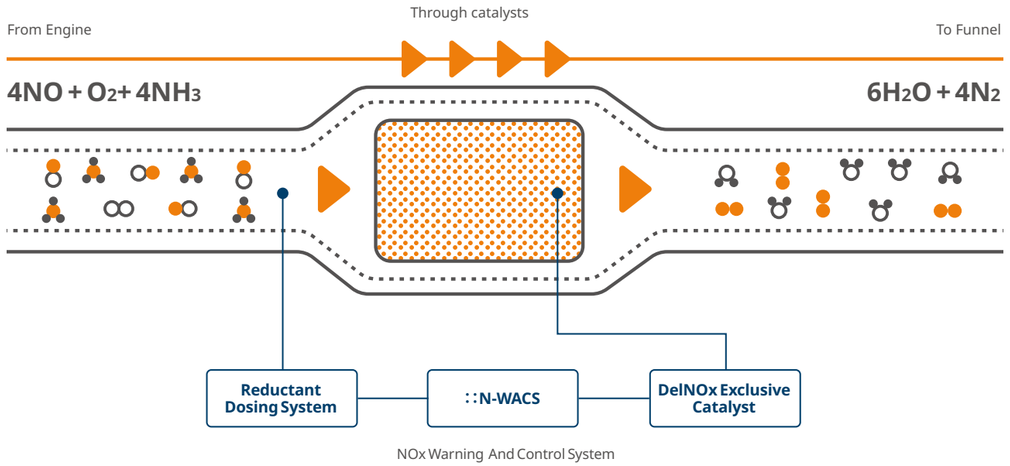
DeINOx is an eco-friendly nitrogen reduction system made with HSD Engine's proprietary technology that meets diverse marine and industrial nitrogen oxide emission regulations with outstanding reduction efficiency.

What is selective catalytic reduction (SCR)?

SCR is an eco-friendly device that breaks down nitrogen oxides (NOx) in combustion exhaust emissions into harmless water and nitrogen through a chemical reaction that uses a reduction agent in the catalyst layer.

DeINOx® SCR System

In general, SCR system could only function with exhaust gases at temperature higher than 300 degrees so there was a limit to the space utilization of ships in the installation of SCR because it should be installed closed to the engine. To overcome the technical limitations of existing SCRs, HSD Engine collaborated with a national research institute with world-class technological capabilities to develop a low-temperature activated catalyst. Also, for the first time in the industry, performance test and technical verification of a low-temperature activated catalyst and SCR system were carried out by installing it a 15MW-2stroke, low-speed engine for actual size test. In June 2013, it demonstrated the superiority and originality of its technology by attaining IMO Tier III certification from the German Register of Shipping (GL). Because of its outstanding performance in the low temperature exhaust gas range, HSD Engine's nitrogen reduction system, branded DeINOx, can be installed at the rear end of turbochargers to improve the flexibility of SCR vessel space utilization and design. Moreover, in response to diverse customer needs and to deliver greater value, HSD Engine has developed high pressure (HP) SCRs that can be installed in the front end of turbochargers. HSD Engine is in the forefront of eco-friendly technology and generates future value with exceptional technology.



CUSTOMER SERVICE

HSD Engine strives maximize customer satisfaction by reaching out to customers and providing high quality service in a friendly and prompt manner.

1. Preventive Services

HSD Engine proactively offers services such as sailing inspections, technical support and product recalls to preempt problems.

Sailing Inspections

HSD Engine service engineers personally board vessels under delivery or in operation to check their condition and eliminate potential problems in advance.

Product Recalls

HSD Engine immediately conducts product recalls if a defect is found in the production or design of a product or if it reoccurs in multiple units.

Technical Support Services

HSD Engine keeps customers informed with useful technical information, such as the latest engine trends and technical service letters. It also provides customers with real time technological support through NICE Service, its online customer support system.

NICE Service System

Technical Support	Parts and Service Support	Worldwide Network Services
• Advance service notifications • Technical service letters • New technology and product introductions • Accident prevention notifications • Q&A	• Parts and technological information • Parts sales and technical support	• Parts and service network • Head office and branch office introduction

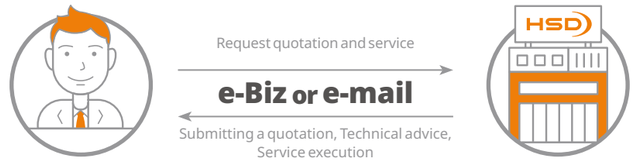
2. Warranty Services

HSD Engine's long experience and advanced technology enable the company to offer high quality services that never fail to impress.

service.engine@hsdengine.com

3. Maintenance Services

HSD Engine offers extensive engine-parts-related customer support services, ranging from the sale of genuine parts to troubleshooting. Customers can conveniently request checks and repairs of engines, ask questions or place orders online. HSD Engine can accurately verify engine conditions and propose optimum solutions.



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4. O&M Services

Operation & Maintenance

Customers can outsource diesel power plant maintenance to HSD Engine to ensure that the plants operate at their best and under the right operational conditions. Packages include comprehensive services, such as power plant management, technical support, personnel management and training, and equipment maintenance and repairs. HSD Engine is an experienced purveyor of power generation diesel engines with extensive experience in power plant installation and commissioning, as well as commercial operation and maintenance.

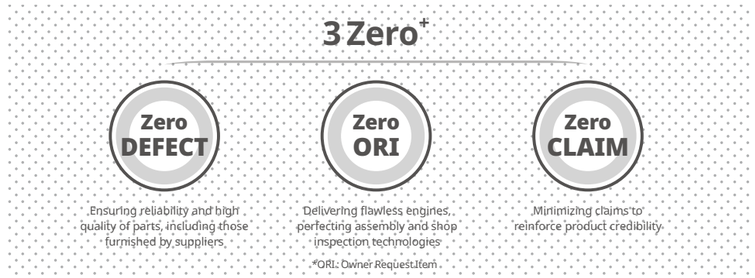
Operation Services	Installation and Commissioning Services	Maintenance Services	Technological Services

QUALITY MANAGE-MENT

"3 Zero+ Quality Innovation" is HSD Engine's initiative to create customer value through quality innovation. It is the driving force behind the company's unrivaled, premium engines and is setting quality and service standards in the global ship engine industry.

"3 Zero+ Quality Innovation" Movement

HSD Engine unveiled the "3 Zero+ Quality Innovation" movement to set a new paradigm for achieving perfect quality. The movement aims to build customers' trust and confidence by guaranteeing the quality and reliability of parts, as well as total quality of engines.



Quality Management System

By continuously improving quality and meeting the standards imposed by certification authorities, HSD Engine takes pride in the quality of its products, the source of the company's reputation.

ISO9001 : 2015

Cert No. 0601-2000-AQ-KOR-KAB
(Certification body : DNV-GL)

Design, Manufacture and Associated Services of Diesel & Gas Engine for Use in the Shipbuilding Industries, Co-Generation Plant and Diesel Power Plant.

KEPIC-MN

Cert No. MN-243
(Certification body: Korea Electric Association)

Field installation of Class 3 piping subassembly, field installation of Class 3 items for nuclear diesel generator units.

KEPIC-EN

Cert No. EN-177
(Certification body: Korea Electric Association)

Manufacture of class 1E diesel generator and shop assembly and installation of utilities related class 1E diesel generator.

HSD Engine is committed to developing the world's best environmentally friendly, high-performance diesel engines and technologies.

R&D

HSD Engine's R&D center is developing performance, structure, vibration and control technologies, as well as components, for high-efficiency, eco-friendly ships.

Engine-Related R&D

Performance

Characteristics of performance, combustion, coolant flow and temperature of components are analyzed to develop high efficiency, fuel-efficient, eco-friendly engine technology. Representative technologies include engine combustion and emissions measurement and analysis techniques to satisfy emission regulations, performance analysis technology to measure engine output and fuel consumption to optimize engine performance, and flow and cooling analysis technology to predict temperature and flow characteristics of key components.

Structure

Durability and reliability of components are analyzed for the production of lighter and more durable engines. Representative technologies include structural technology to evaluate the structural safety and durability of components, material technology to research metallic materials, and lubrication technology to evaluate and analyze friction, wear and lubrication of drive parts.

Vibration

Vibration reduction technologies are researched to reduce vibration in main engine body and shaft system caused by the moving parts and combustion pressure during engine operation. Representative technologies include analysis and measurement techniques that use excitation force (such as combustion pressure and inertia force of moving parts) to predict vibration of the main body; vibration reduction technology that change the shape of structures to optimize their natural frequency; and the development and installation of devices that reduce vibration. HSD Engine developed and supplies ENVA(Engine Vibration Absorber), a vibration reduction device for ship engine bodies.

Control

Research for the advanced high-tech and localization of electronic control systems which acts the "brain" of an engine, development of a system that diagnoses the condition of the engine and prevents malfunctions in advance. Representative technologies include engine electronic control system design technology, and system diagnostic technology that monitors engine condition in real time to detect problems and prescribes solutions.

Development of eco-friendly components

IMO implemented Tier-III regulations in 2016 to reinforce nitrogen oxide emissions in light of worsening environmental pollution generated by ships and industrial diesel engines. HSD Engine became the leader of environmentally friendly technology when it developed DeINOx®, the world's first low-temperature, selective catalytic reduction (SCR) system.

DeINOx was tested and verified using a 2-stroke, 15 MW dedicated R&D engine. It proved its excellence by obtaining IMO Tier III classification from the German Register of Shipping (GL). HSD Engine is in the forefront of developing eco-friendly technologies that can create future value and leading global technology trends. In the marine engine equipment industry, it used existing LP SCR technology to expand its SCR product line of low and medium speed marine and land-use engines. In addition, it offers engine and SCR packages to maximize customer satisfaction with unique integrated solutions. HSD Engine will continue to create future value with environmentally friendly solutions.

HSD Engine

HSD Engine is preparing for the future. It is earning stakeholders' trust and respect as a global company by continuing to invest in the development of future growth engines and actively pursuing corporate social responsibility.

STEADILY READY

CORPORATE SOCIAL RESPONSIBILITY (CSR)

HSD Engine is strengthening its global management aspects to reinforce stakeholders' confidence.

Supporting Responsible and Sustainable Growth

To earn respect as the world's leading comprehensive engine maker, HSD Engine practices sustainable management and fulfills its social responsibility by preempting changes in the environment and pursuing CSR strategically. It has a strategic CSR mission to "support responsible and sustainable growth" that is built on six activities centered around respect for the individual, responsible management, and stakeholder value creation. Every HSD Engine employee will join forces to create value that will enable all stakeholders to grow together.

HSD Engine pursues corporate social responsibility in a manner that gives trust to different stakeholders.

ENVIRONMENT, HEALTH AND SAFETY (EHS)

Respecting humanity and environmental conservation, HSD Engine adheres to an EHS policy that protects the health and safety of employees and meets the environmental needs of internal and external stakeholders in all of its business activities.

Organization and system to enforce health and safety management

In order to create a healthy and safe work environment, HSD Engine operates a health and safety management system. It also deploys personnel to each department and each level of the hierarchy to promote health and safety management.

Site-based safety management

HSD Engine has established safety guidelines for each work process, processing facility, and transport equipment that are used before the commencement of work or in Toolbox Meetings (TBM) to raise safety awareness among its workforce. In order to prevent accidents at production sites, it carries out environmental safety and health prevention activities at the organizational and department levels.

Health care

HSD Engine actively runs a health promotion program and personalized health care program to enable employees to work in a healthy and pleasant environment.

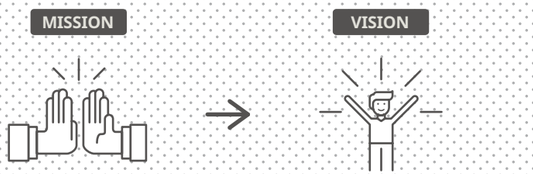
Employees in all workplaces around the world share and abide by the company's environmental safety and health principles and procedures.

COMMUNITY INVOLVEMENT

HSD Engine supports diverse community activities such as supporting the growth and independence of high-potential individuals, protecting the environment, and supporting the underprivileged for the benefit of the community.

Composition of HSD Engine's community activities

HSD Engine carries out community activities systematically with the mission of "enhancing the future competitiveness of communities and corporate value through the strategic execution of community activities."



HSD Engine Social Contribution Fund

HSD Engine volunteers donate a portion of their monthly paycheck and spare change toward a matching grant from the company for the creation of a social contribution fund. The fund is used on programs for the growth and independence of high-potential individuals, environmental protection activities, and support activities for the underprivileged.

Support for children group homes

HSD Engine is forging affiliations with children group homes in the Changwon area, small-scale child care facilities that provide services tailored to the individual characteristics of children, offering financial support and creating opportunities for participation in experiential activities that promote growth and self-reliance.

Small Love Volunteer Service Club activities

Since the founding of the company in 2000, employees have been voluntarily running the "Small Love" volunteer club to visit nearby nursing homes and conduct volunteer activities on a monthly basis.

Support for the elderly people in disadvantaged areas

In addition to providing traditional medicine and meals to prevent nutritional imbalance among the elderly, HSD Engine conducts environmental cleanup and facility renovation activities in islands and rural areas isolated from culture, medicine, education, and economic welfare to prevent social problems.

Bongam Tidal Flat Ecological Learning Center

In order to cultivate the Bongam tidal-flat ecological learning center, HSD Engine provides shelter for migratory birds in the Bongam tidal flats and conducts environmental cleanup activities, such garbage collection, to promote the growth of crabs and earthworms living in tidal flats.

Support for the development of talent and self-reliance

HSD Engine employees voluntary conduct elective classes in nearby secondary schools to develop the talent of students. It signed an MOU with a special-purpose school in the Changwon area to support diverse experiential programs and sports classes that promote self-reliance among disadvantaged children.

GLOBAL NETWORK

HSD Engine's
playing field is
expanding
by the minute.

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Pacific marine (China)
Wingkong Marine Engineering (China)
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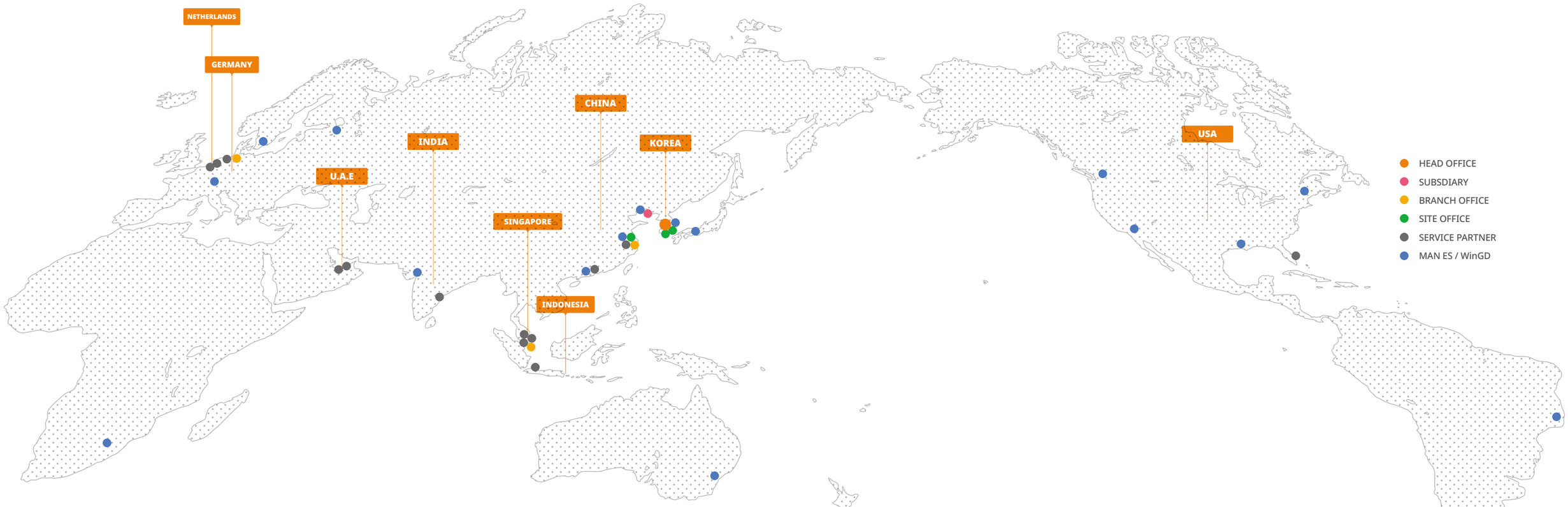

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