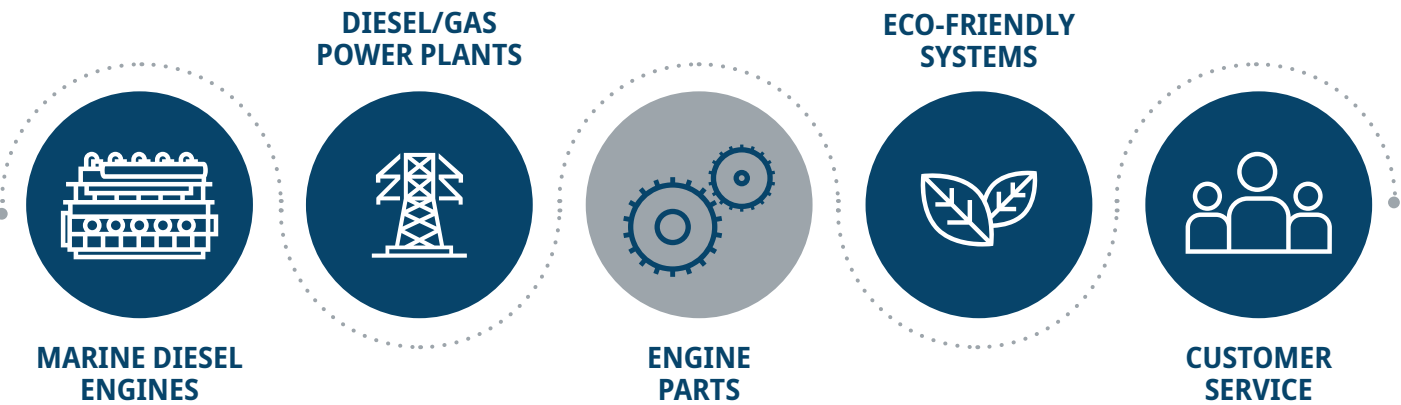


# INTRODUCTION

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.



## 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.



## PARTS SALES & TECHNICAL SERVICE

**Contact Points**  
**Part Sales & Technical Service Team**  
Tel. +82-55-260-6260  
Fax. +82-55-260-6783  
E-mail. ebiz.engine@hsdengine.com  
www.hsdengine.com





## PARTS SALES

3Best [Best Price, Best Delivery, Best Service]are our mottos, with which we always pursue customer satisfaction.

### SERVICE WITH 3 BEST

#### BEST PRICE

- Reasonable price through world wide network

#### BEST DELIVERY

- Quick reply within one day
- Quick delivery from high availability

#### BEST SERVICE

- Superior speed and quality for full customer satisfaction

## TECHNICAL SERVICE

Our highly-trained service technicians will take care of all the maintenance and repair works on engines.

### Cost Saving & Trouble shooting

- Up- / De-rating of ME
- Alpha Upgrade for LLO
- Trouble Shooting Service
- [NEW] Hans Jensen SIP Retrofit

### Safety

- B-WACS (Bearing Wear Monitoring)
- Multi OWACS (Water In-Oil)
- O-WACS (Water In-Oil)
- Liner Wall Temp. Monitoring
- Centrifugal Filter for Gen-Set
- [NEW] Liner-SCAN

### Maintenance

- ME Engine Dry Dock Service Package
- Alpha 5Y Maintenance Package
- Pneumatic 5Y Maintenance Package
- Dry Supervision Service
- Recondition
  - FIVA VALVE, PISTON CROWN
- 5Y TV Damper Maintenance & GMS for Geislinger Damper

## ENGINE PARTS

### WAREHOUSE HSD engine is always ready for you !

With a large number and wide variety of components for diesel engines in stock, HSD engine is ready to supply any parts to our customers at competitive prices, no matter where they are and when they need them.

From small, consuming parts to heavy parts such as cylinder liners, the many parts that customers demand are in stock at domestic and overseas warehouses.

### Key Engine Parts

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

#### 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.

#### 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.

#### Main/X-Head/Con-rod Bearing

Support energy transmitted to the main drive heads during combustion.

#### 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.

#### Piston Ring

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

#### Pump Barrel With Plunger

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

#### Spindle Guide Complete

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

#### 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.

#### 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.