



Reliable and Customer-friendly Enterprise

We have established quality care management,
and set up World-Best Standard as well
as satisfying a rapidly changing customers'
needs by customer-friendly management

www.winwinintec.co.kr



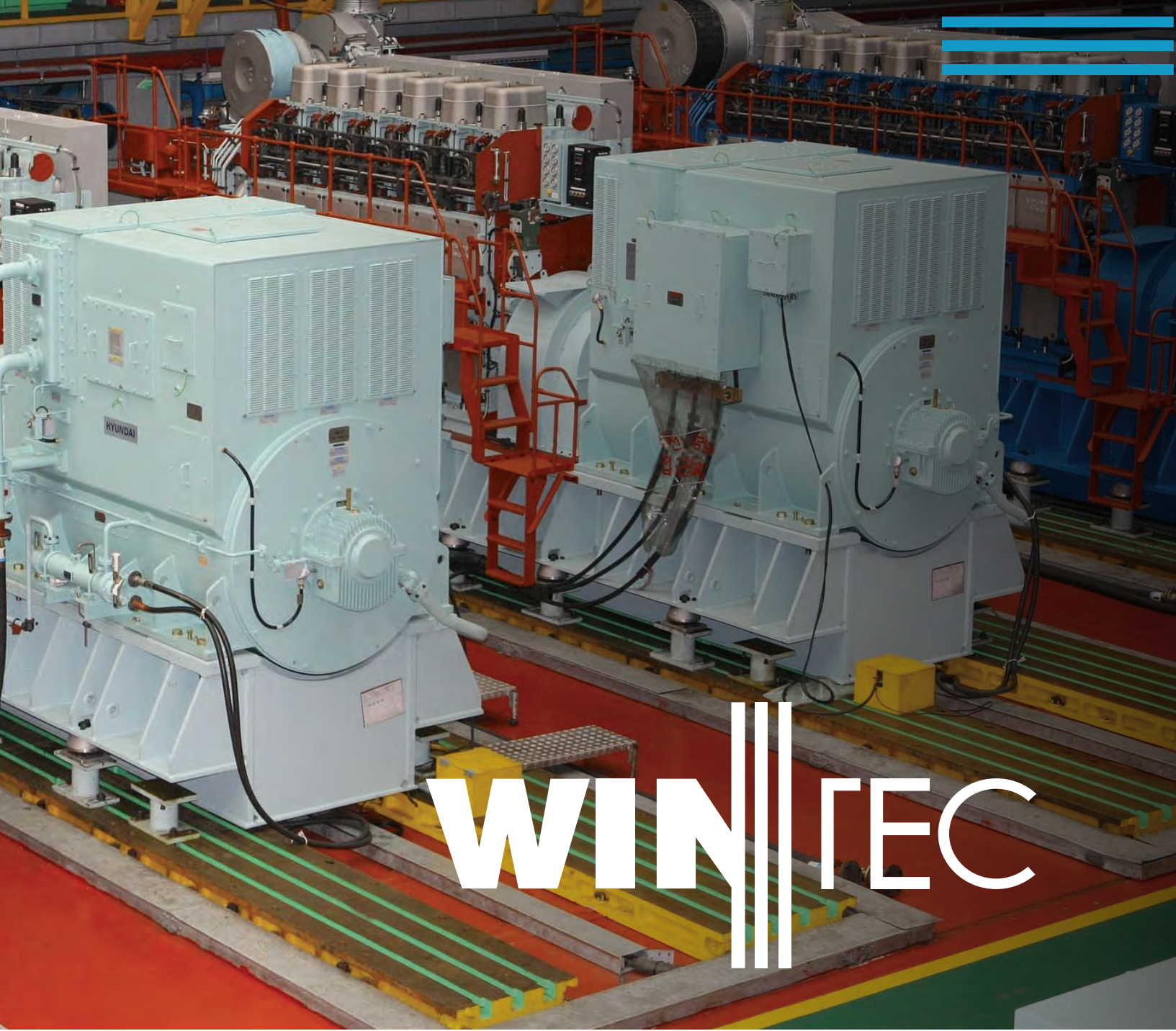


INTRODUCTION



Reliable and Customer-friendly Enterprise

We have established quality care management, and set up World-Best Standard as well as satisfying a rapidly changing customers' needs by customer-friendly management.



WINWININTEC, established in December of 2011 based on the technology of developing the FUEL INJECTION VALVE OF HEAVY DUTY 2 STROKE DIESEL ENGINE first in the nation. WINWININTEC has proven its technical possibility by supplying of FUEL INJECTION VALVES to HHI and contributing to import substitution of FUEL VALVES which before was solely dependent on international purchasing.

Also by developing and establishing manufacturing system for FUEL INJECTION VALVE for medium size 4 stroke diesel engine we have possessed the ability to meet the customer's needs with the highest quality. We promise to keep working to satisfy the customers with continuous research and development.

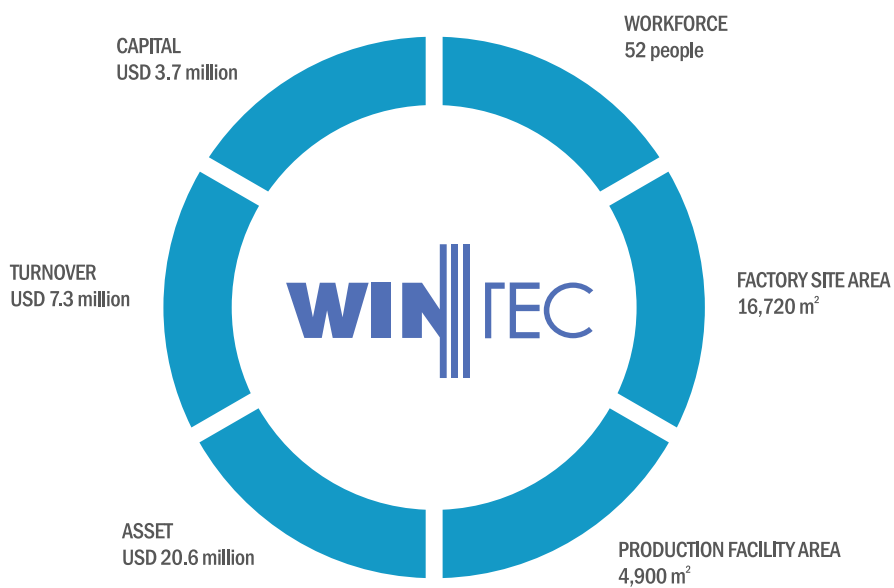


Company Status

WINWININTEC.

Company that you can trust! Company that pleases the customers! We have established maintained a keen quality management system.

Together with management keeping the customers at first, we have satisfied ever changing requests and circumstances.

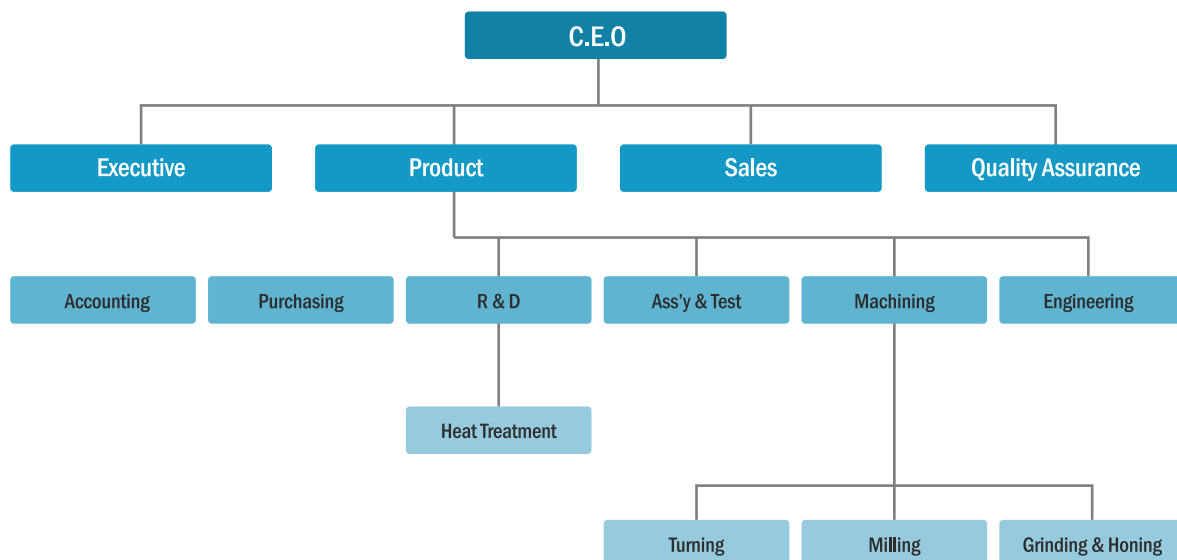




History

- 2011 12 Company Establishment
- 2013 01 Factory Registration
- 03 Acquisition of ISO 9001 Quality Management System Certificate (DNV)
- 04 Acquisition of Technical Research Institute Certificate / Korea Industrial Technology Association
- 05 Acquisition of FIV Certificate of Approval from MAN Diesel & Turbo
Registration of Partnership Company to HHI
- 07 Built up ERP system (V-WIN)
- 2014 02 Acquisition of Certificate of Business & Academic Cooperation System with Korea Maritime University
- 06 Acquisition of Certificate of Clean Work-place from Korea Occupational Safety & Health Agency
Acquisition of Trade Business Number from Korea International Trade Association
Registration of Partnership with MAN Diesel & Turbo
- 11 Registration of Military Service Exception Firm / Military Manpower Administration
- 2015 01 Registration of Partnership with STX
- 11 11 3Awarded the commemoration prize for the 3 Million Dollar export achievement
- 2016 03 Acquisition of DUNS Number (688378792)
- 12 5Awarded the commemoration prize for the 5 Million Dollar export achievement
- 2017 06 Approval of HIMSEN ENGINE Fuel Injection Valve to HHI
- 10 Approval of HIMSEN ENGINE Fuel Pump to HHI

Organization



WINWININTEC

MAIN PRODUCTS

3155756-0.6
D60E EH 2830
EJ25CA

4STROKE FUEL VALVE

HIMSEN ENGINE

4-ST.
FIV

4STROKE FUEL PUMP

HIMSEN ENGINE

4-ST.
FIP

Mass
Product

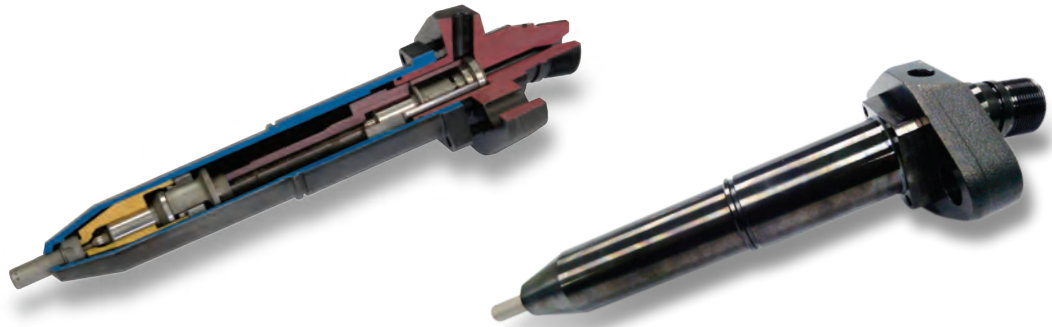
2-ST.
FIV

2STROKE FUEL VALVE

26~98 BORE(ALL TYPE)

01

Fuel Valve for 2-Stroke Low Speed Marine Diesel Engine



2-Stroke Fuel Injection Valve

Function and Feature

- Injecting High Pressure Fuel Delivered from Injection Pump
- Main Components

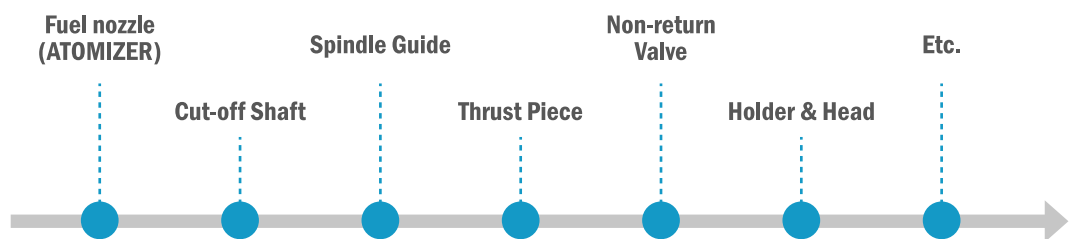
Main Production Processing Techniques

- Special Nozzle Hole Processing Technology
- EDM(Electronic Discharge Machining) Process
- Opening Pressure Control Technology

02

Supplying Main Components for Fuel Valve

Main Components



03

4-Stroke Fuel System



Fuel Injection Valve & Pump

- Himsen Engine (High & Medium Speed Engine)
- Production Capability of 20,000 Cylinder per Year
- Mass Production System



DVT (Dual Valve Timing)

- Himsen Engine (High & Medium Speed Engine)
- Applicable for both engines for propulsion & power generation
- Mass Production System

04

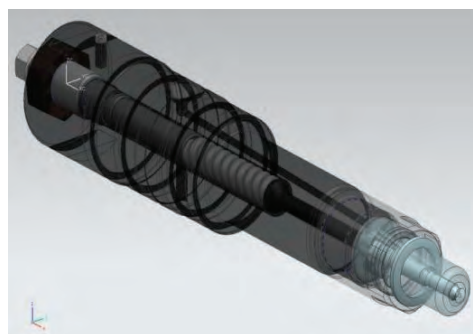
4-Stroke Fuel System Development & Special Parts Supply Service

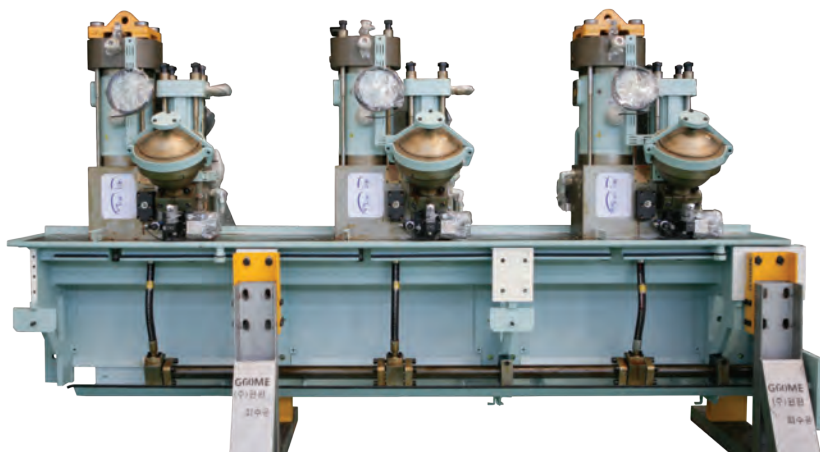
Status of Developing Process

- Fuel Equipment for Himsen Engine (all types)
- Supplementing self-designing capability

Main Components

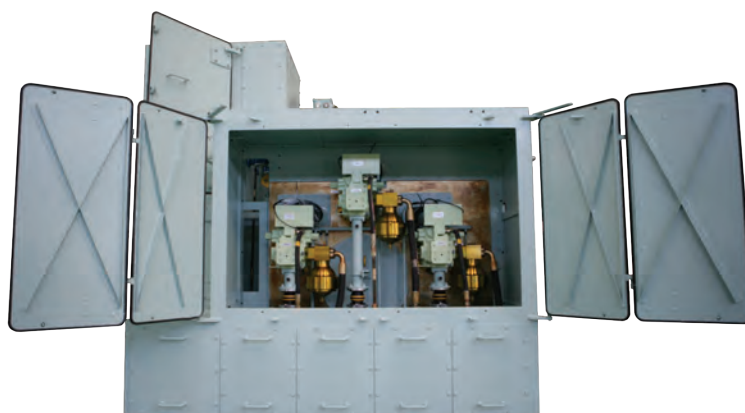
- Atomizer A'ssy, Injection Body, Etc.
- Plunger, Barrel, Roller, Etc.





HCU (Hydraulic Cylinder Unit)

- Hydraulic cylinder module for high pressure fuel supply for 2-Stroke ME-Engine.
- Controlling open-close exhaust valve
- Production Capability : 35 ~ 98 Bore
- Main Customer : HHI & HGS & International Engine Builders



HPS (Hydraulic Power Supply)

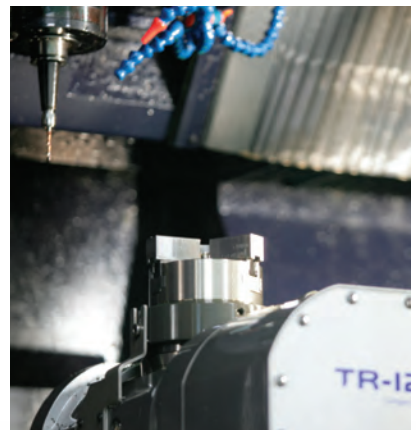
- Module for supplying and controlling hydraulic pressure for 2-Stroke ME-Engine.
- Production Capability : 35 ~ 98 Bore
- Main Customer : HHI & HGS & International Engine Builders

Production Equipment

CNC TURNING CENTER : 20



MCT MACHINES : 8



GRINDING MACHINES : 20





SPECIAL MACHINES

- EDM, ECD
- Hydraulic Erosion, Hydraulic Grinding



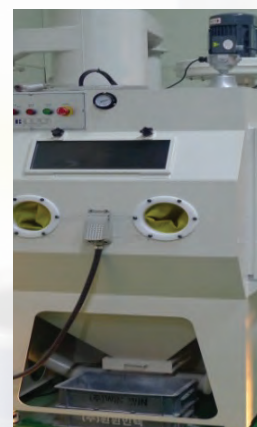
HEAT TREATMENT FURNACE

- Vacuum Q/T, Nitriding, Sub-zero
- Carbonitriding, Tempering



PREPARATION / POST HEAT TREATMENT FACILITY

- Vacuum Clearing, Shot Blast
- Hand Shot Blasting



Inspection Equipment

SPECIAL INSPECTION ROOM (TEMPERATURE & HUMIDITY)



1	2	3
4	5	6

1. THREE DIMENSION MEASURING M/C 2. ROUNDNESS MEASURING M/C
3. VIDEO METER 4. LASER SCAN MICROMETER
5. AIR MICROMETER 6. ROUGHNESS TESTER

SPECIAL INSPECTION ROOM (TEMPERATURE & HUMIDITY CONTROL)

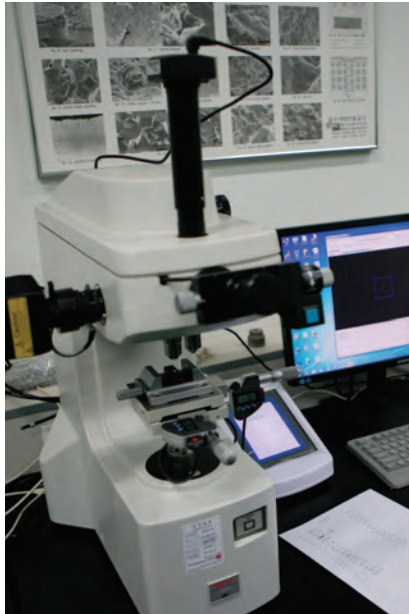


1	2	3
4	5	

1. MICROSCOPE 2. CUTTING MACHINE
3. MOUNTING PRESS 4. POLISHING M/C
5. LO-DIA CUTTING M/C



| HARDNESS TESTER



1	2	3
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1. VICKES HARDNESS TESTER
2. ROCKWELL HARDNESS TESTER
3. BRINELL HARDNESS TESTER

| OTHERS



1	2	3
4	5	6

1. ENDOSCOPE
2. FUEL PUMP TEST RIG
3. NOZZLE FLOW TESTER
4. HYDRO STATIC TESTER
5. FUEL VALVE TESTER(2-ST)
6. FUEL VALVE TESTER(4-ST)

Medium & Long Term Plan

GLOBAL LEADING COMPANY

SPECIALIZED IN FUEL INJECTION

- Fuel Injection Valve & Pump for Maritime Business
- Fuel Injection device for Generator
- Fuel Injection device for Automobile & Heavy Industry

SPECIALIZED IN PRECISION ENGINEERING

- Equipment & Material for Maritime Business
- Equipment & Material for Automobile & Heavy Industry
- All business area in Precision Engineerin

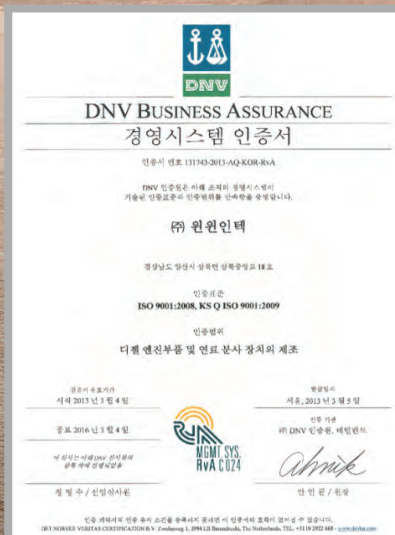
R&D

- Assuring world best quality products
- Developing innovative products
- Cooperating with technology organization for world best quality

Main customer



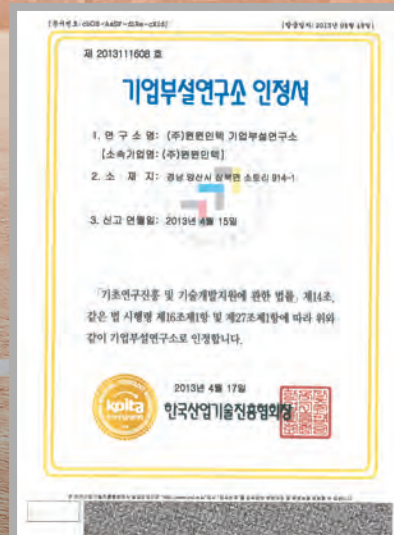
Certificate



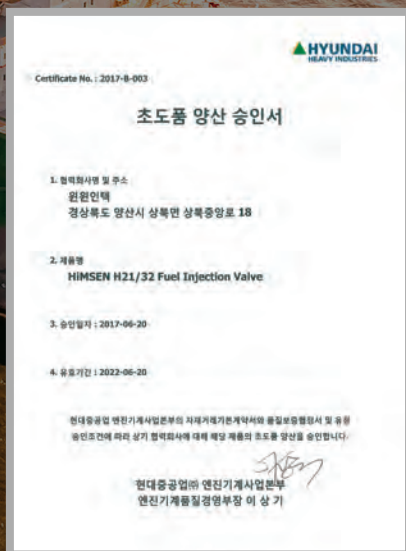
ISO 9001 Quality Management System Certificate (DNV)



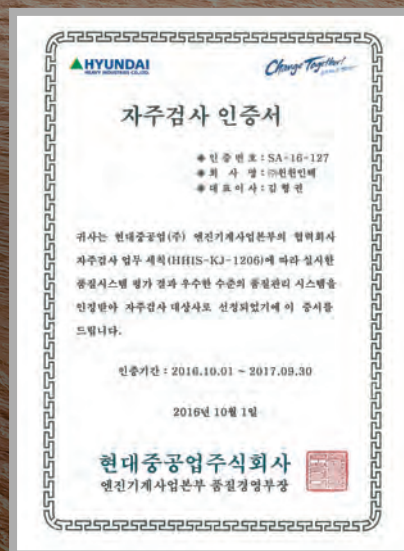
All type MC/ME ENGINE FIV Certificate of Approval by MAN DIESEL & TURBO



Technical Research Institute Certificate by Korea Industrial Technology Association



Certificate of HIMSEN ENGINE Fuel Injection Valve by HHI



Certificate of Self Inspection by HHI



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*이 팸플렛은 양산시 기업디자인지원사업의 일환으로 제작되었습니다. | 디자인 : 동원과학기술대학교 아시아디자인연구소