



Advanced Quality!  
Components and Materials  
Specialized Company!

# HAEWON





## GREETINGS

Haewon Group (President Soo-Yeol, Kim) is specialized in components and materials to manufacture 5 main components of vessel engine and components of land-based construction largely.

We have leading-edge technology, achieving recognition of all special material components for vessel engine from German MAN which receives credit for global standard in vessel and developmental engine areas.

In particular, S20CrMoVS, S30MnH and S42Cr1 which are special materials used in next generation engine developed by request of MAN receive a favorable evaluation as the best engine material rather than famous manufacturing countries such as Japan and Italy.

Our main trading partners are usually main vessel engine components manufacturers such as Doosan Engine, STX Heavy Industries, Co., Ltd., Hitachi, Mitsui, CMD and etc. And we have facilities to assure the quality of components for vessel engine. In case of Doosan Engine delivery, the fraction defective was ZERO%, which is our strongest point of high quality.

Besides, a chrome plating technology of Haewon Group named as SOO-YEOL PPS is outstanding to drag attentions. This technology is also approved by MAN and the result plated by SOO-YEOL PPS is assured by Man, which shows high competitive power for quality. Chrome-plated product by SOO-YEOL PPS has less wear than general products 2~3 times. Consequently, it can reduce time and budget to replace components and now it is widely used in basic construction equipment of land plant.

Now Haewon Group is expanding business area and capabilities into material industry across the industrial apparatus such as DRILL BIT, HAMMER BIT, RING BIT and etc. which form the foundation of offshore plant and land plant based on existing stable businesses.



Advanced Quality! Components and Materials  
Specialized Company!

# HAEWON



# HAEWON OUTLINES

## CERTIFICATION



ABS



BV



DNV



CCS



RINA



GL



KR



LR



NK



MAN P/C Letter of Approval



## Quality Management Philosophy

1. Management Innovation
2. Quality First Style
3. Customer Satisfaction Maximization



# High Quality is Our Company Objective

## PRODUCT

- Piston in Stock
- Piston Rod
- Piston Crown
- Piston Skirt
- Connecting Rod



**Piston in Stock**



**Piston Rod**



**Piston Crown**



**Piston Skirt**



**Connecting Rod**



## PRODUCT

- Air Cylinder  
(Reversing, Lifting, Linkage, Distributor)
- P-max(VIT) Actuator
- Sealing Ring & O-Ring  
(NBR, VITON, Silicon)
- Mounting Tool  
(MAN B&W 26~98MC)

Even Small Parts are  
Important-We can Help  
with These Too.



**Air Cylinder**  
(Reversing, Lifting, Linkage, Distributor)



**P-max(VIT) Actuator**



**Sealing Ring & O-Ring**  
(NBR, VITON, Silicon)



**Mounting Tool**  
(MAN B&W 26~98MC)





## MAJOR EQUIPMENT(PRESS)

3000TON PRESS



8000TON PRESS

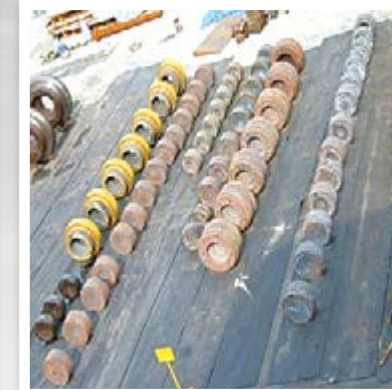


## SHIP ENGINE EQUIPMENT

INGOT



P/C & C/C



PISTON ROD



CROSS HEAD



CONNECTING ROD







# High Quality Plating Performance INDUSTRY EQUIPMENT

- HAMMER BIT
- RING BIT
- BIT
- SPINDLE



- DRILL PIPE
- DRILL BIT
- ETC



# MOLD FORGING PRODUCTION PROCESS AND EQUIPMENT

## Production process

Heating ingot ▶ Upsetting & cogging ▶ Cutting & discard ▶ Reheating ▶ Mold forging



Production scene of mold forging – Heating after mold forging scene



K98MC-C P/C      S70MC-C C/C      RTF-50 C/C      RT96 C/C



***Stern Tube & Cylinder liner  
Repair or Rebuild Project  
with High Quality Plating Performance!***

***Best Solution for Marine diesel Engines.  
New & Reconditioned Parts  
with Quick Delivery!***

 **HAEWON**



**All of the chrome-plating parts  
of the ONSHORE & OFFSHORE  
PLANT INDUSTRY WILL!**

**ONLY TEL US : 82-51-831-4600(#2)**





○ **HAEWON Industries co.**

74, Hasinjungang-ro 3beonga-gil, Saha-gu, Busan, Korea  
TEL : 82-51-831-4600(#1) FAX : 82-51-831-4336

○ **HAEWON Special Forging co.,ltd**

16, Gimhae-daero 1099beon-gil, Hallim-myeon, Gimhae-si, Gyeongsangnam-do, Korea  
TEL : 82-55-343-2355 FAX : 82-55-343-2366

○ **HAEWON Machinery&Engineering co.,ltd**

87-37, Myeongdong-ro, Hallim-myeon, Gimhae-si, Gyeongsangnam-do, Korea  
TEL : 82-55-345-8717 FAX : 82-55-345-8720

○ **HAEWON P&G**

16, Noksansandan 261-ro 31beon-gil, Gangseo-gu, Busan, Korea  
TEL : 82-51-831-4184 FAX : 82-51-831-4186

○ **WESTSEA co.,ltd**

74, Hasinjungang-ro 3beonga-gil, Saha-gu, Busan, Korea  
TEL : 82-51-831-4600(#2) FAX : 82-51-831-4334