



DAE HWA ENGINEERING SERVICE CO., LTD.

DAE HWA

ENGINEERING SERVICE CO., LTD.

For customer's satisfaction with
reliability & high-tech of
DAE HWA ENGINEERING SERVICE

A Proven Design with Practical Applications
A Simplified Structure with a
Minimum of Components



DAE HWA ENGINEERING SERVICE CO., LTD.

Tel +82-52-258-6230~2

Fax +82-52-258-6233

E-Mail contact@daehwaeng.com

Address 14, Dotjil-ro 384 beon-gil, Nam-gu, Ulsan, Republic of Korea (post code 44712)



WWW.DAEHWAENG.COM

 **DAE HWA**
ENGINEERING SERVICE CO.,LTD.

CEO'S MESSAGE

TO OUR VALUABLE CUSTOMERS

We are indeed pleased to take an opportunity to present our Prequalification Summary for your information and consideration.

DAE HWA ENGINEERING SERVICE CO., LTD is a fully integrated Engineering and Testing, including Procurement Services for full range of materials, Nondestructive Testing Company. Specializing in project sales for Engine spare parts and marine equipment also providing service for engine maintenance.

In order to meet the ever-increasing demands for Engine spare parts, Testing and Quality Assurance/Quality Control services, DAE HWA has organized itself to provide you all of these capacities ready for whenever.

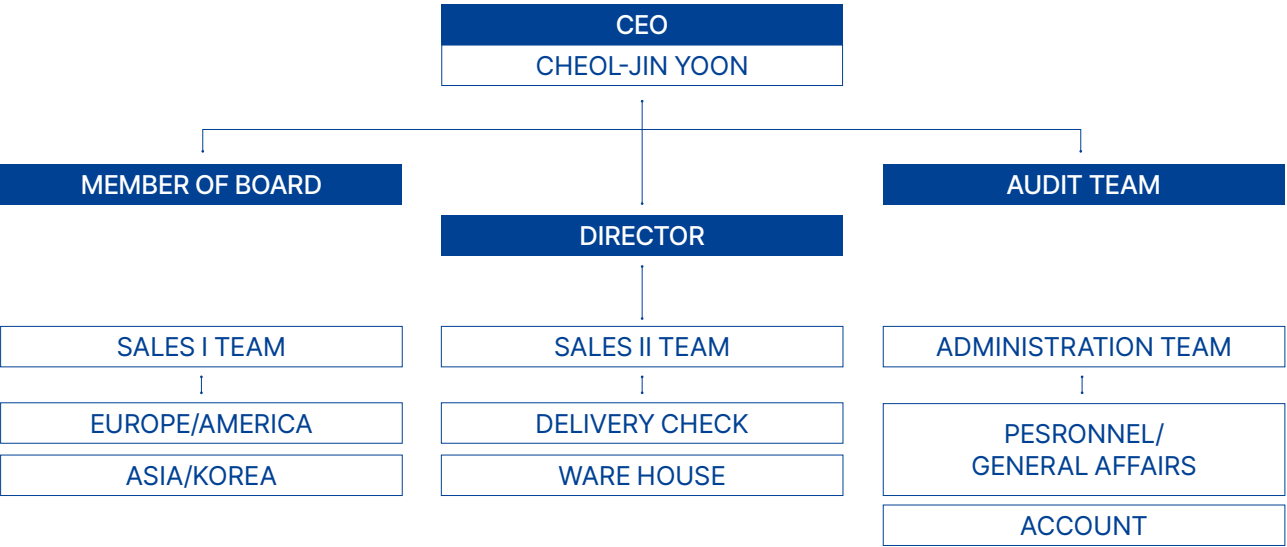
A combination of widespread resources, multi discipline expertise and extensive experience in these fields makes DAE HWA ENGINEERING SERVICE team available to meet customers' satisfaction with exclusively devoted mind to our project.

We are ready to meet our valuable customers at anytime, anywhere and eager to contribute toward the success of our customers' projects to meet your full satisfaction.

REPRESENTATIVE DIRECTOR
CHEOL-JIN YOON



Organization



History

- 2015 12 Awarded "Ten-Million dollar export tower" at Trade day
- 2012 04 Awarded Letter of Appointment from "Korea Trade-Investment Promotion Agency"
- 02 Certified Export Specialized Company from "Minister of Knowledge and Economy & Chairman of Korea Trade Association"
- 2007 11 Awarded the prize from "Ministry of Commerce Industry and Energy"
- 2004 12 Awarded "Five-Million dollar export tower" at Trade day
- 2003 12 Awarded the mayor prize from Ulsan Metropolitan City at Trade day
- 2002 11 Awarded "Million dollar export tower" at Trade day
- 2001 02 Obtained ISO 9001 certification
- 2000 09 "Korea Trade Association" Member
- 1994 03 Establishment of "DAE HWA ENGINEERING SERVICE CO., LTD." Agreement with HYUNDAI HEAVY INDUSTRIES CO., LTD. for an authorized sales agent of spare parts of marine diesel engine(Until 2018)

Certification

FOR CUSTOMER'S
SATISFACTION WITH
RELIABILITY & HIGH-TECH OF
DAE HWA ENGINEERING SERVICE

Core Service



Fully Integrated Services

The company offers a comprehensive range of services, including engineering and testing, procurement, and nondestructive testing.



Engine & Marine Equipment

Their primary focus is on project sales for engine spare parts and marine equipment, as well as providing engine maintenance services.



Customer Satisfaction

The team is committed to customer satisfaction by combining widespread resources and multi-disciplinary expertise.

Certificate No. 2024-275

Certified Trading Company

DAE HWA ENGINEERING SERVICE CO., LTD.
Term of Validity : 2024. 7. 1. ~ 2027. 6. 30.

This certifies that the above company has been designated as a Certified Trading Company for its outstanding performance and business credibility, and demonstrates its capacity to support the expansion of exports and overseas market entry of Small and Medium Enterprises and High Potential Enterprises.

July 01, 2024

Minister of Trade, Industry & Energy *Dohyeon Ahn*
Chairman of Korea International Trade Association *S.S. Yoon*

20241127227290

Certificate NO : R181201-02610

CERTIFICATE OF Main-Biz

Company : DAE HWA ENGINEERING SERVICE CO., LTD.
C E O : YOON CHEOL JIN
Address : 14 DOTJIL-RO 384BEON-GIL NAM-GU ULSAN
Validity of Certificate : 2024. 11. 11 ~ 2027. 11. 10

This is to certify that the above mentioned company is a Management Innovation-Oriented Small and Medium Enterprise(Main-Biz) selected by the Ministry of SMEs and Startups in accordance with the Act on the Promotion of Technology Innovation of Small and Medium Enterprises.

2024. November. 27 *장관인*
Minister

Ministry of SMEs and Startups
Republic of Korea

No. of Certificate : 2022 Ulsan - 9

CERTIFICATE

This is to certify that the following company is designated as a 'Promising Small and Medium Enterprise in Export' by Ministry of SMEs and Startups (MSS), Republic of Korea.

☐ Company : DAEHWAENGINEERING SERVICE CO.,LTD
☐ Representative : CHEOL JIN YOON
☐ Designated Period : 2022. 1. 1. ~ 2023. 12. 31.(2 years)

Date of issue : 2022. 1. 13

Ministry of SMEs and Startups
Kwon Chil-Seung

DAEHWA ENGINEERING SERVICE CO., LTD.
14 Dotjil-ro 384beon-gil, Nam-gu, Ulsan, Republic of Korea, 44712

Bureau Veritas Certification Holding SAS - UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

ISO 9001:2015
Scope of certification
Supply of spare parts for ship.

Original cycle start date: 09-09-2013
Expiry date of previous cycle: NA
Certification / Recertification Audit date: 08-09-2025
Certification / Recertification cycle start date: 08-09-2028
Subject to the continued satisfactory operation of the organisation's Management System, this certificate expires on: 08-09-2028

Certificate No.: KR004835 Version: 1 Issue date: 08-09-2025

Dr. Yoon

Signed on behalf of BVCH SAS UK Branch
Certification Body Address: 5th Floor, 100 Lower Thames Street, London, EC3R 6DL, United Kingdom
Local Office: 5th Floor, 457 Bongunsa-ro, Gangnam-gu, Seoul, Republic of Korea, 06096

Further clarifications regarding the scope and validity of this certificate, and the applicability of the management system requirements, please call: +82 2 305 8710
CER CERTIF ALL TPL 001 Rev 4.3 1/1 4 Nov 2024

Bureau Veritas Certification

UKAS MANAGEMENT SYSTEMS 0008

TECHNICAL SERVICE FOR VESSEL AND POWER PLANT DIESEL ENGINES

- » Overhaul inspection of the engines in service (Port or Voyage)
- » Maintenance of the ship's equipment during in service
- » Technical supervision for engine system/parts during dock maintenance
- » Inspection & Maintenance for Hydraulic system of ME/RTF engine



Man Type Engine

① Low Speed Engine (MC-C, ME-B, ME-C)

- **General Maintenance Items** : Fuel Pump/Injector, Cyl. Cover/Liner, Piston, Bearing (Main, Crank Pin, Cross Head), starting air V/V, Exh, V/V, Etc.
- **Re-Adjusting** : Main Chani Tension, Bearing Clearance
- **Inspection** : Pneumatic System (MC, MC-C engine only)
- **Special Inspection/Maintenance** : ME-B, ME-C Engine Accumulator - Recharge of N2 gas and Replace with new diaphragm
- **ME Component** : Exh, Valve Actuator, Fuel Oil Pressure Booster, FIVA, Etc.

② Middle Speed Engine (16/24, 21/31, 27/38, 32/40, Etc.)

- **General Maintenance Items** : Fuel Pump/Injector, Cyl. Cover/Liner, Piston, Bearing (Main, bigend) starting air V/V, Exh, V/V, Etc.
- **Commissioning**



Warsila Type Engine

① Low Speed Engine (RTA, RT-flex)

- **General Maintenance Items** : Fuel Pump/Injector, Cyl. Cover/Liner, Piston, Bearing (Main, Crank Pin, Cross Head), starting air V/V, Exh, V/V, Etc.
- **Inspection of Hyd. System**
- **Inspection** : Pneumatic System (RTA engine only)

SPARE PARTS FOR M/E & G/E



PISTONS FOR THE DIESEL ENGINES



FUEL INJECTION PARTS



CRANKSHAFT



CAMSHAFT



NOZZLE



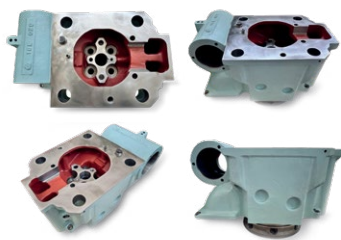
VALVE SPINDLE



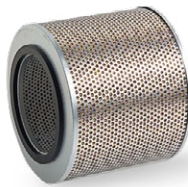
MAJOR SPARES OF AUXILIARY ENGINES



LINER



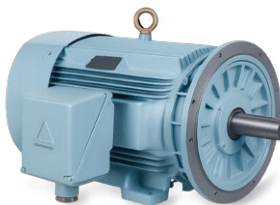
CYLINDER HEAD



L.O FILTER ELEMENT



MAGNETIC CONTACTOR



AUX BLOWER



PURIFIER

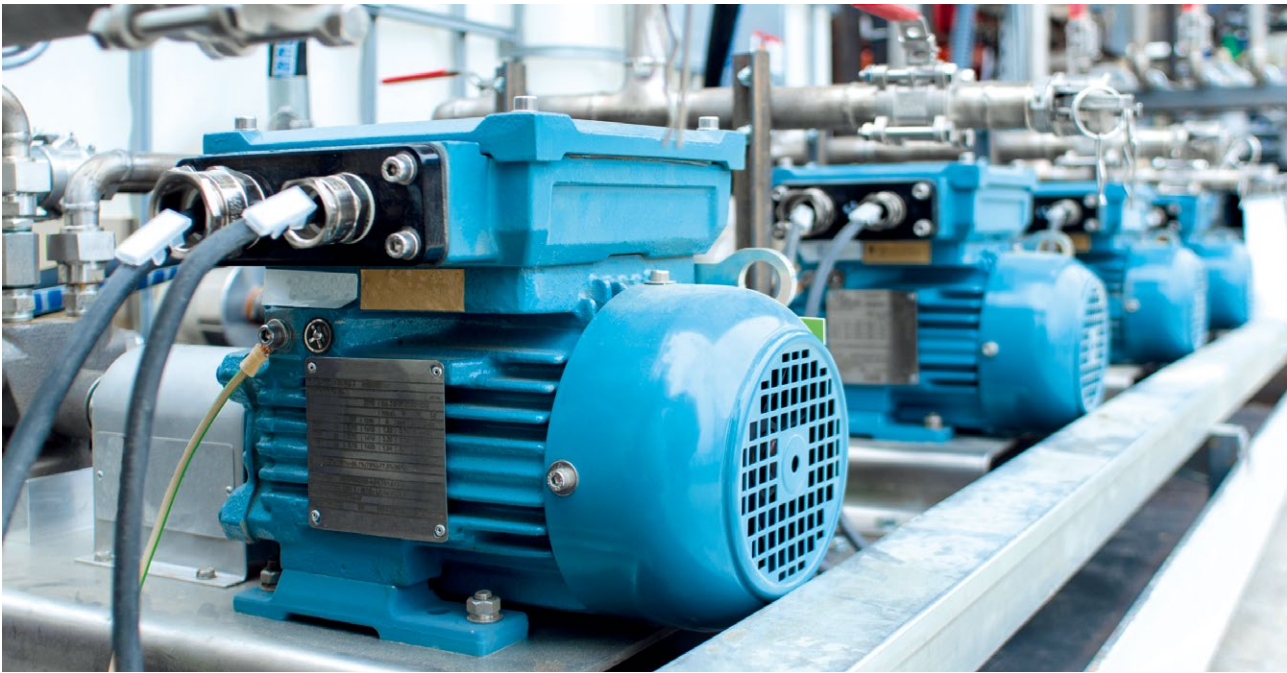
		
MAIN CYLINDER	SPIRAL GEAR	BOWL NUT
		
CHAMBER COVER	BERARING CASE	

MARINE PUMP

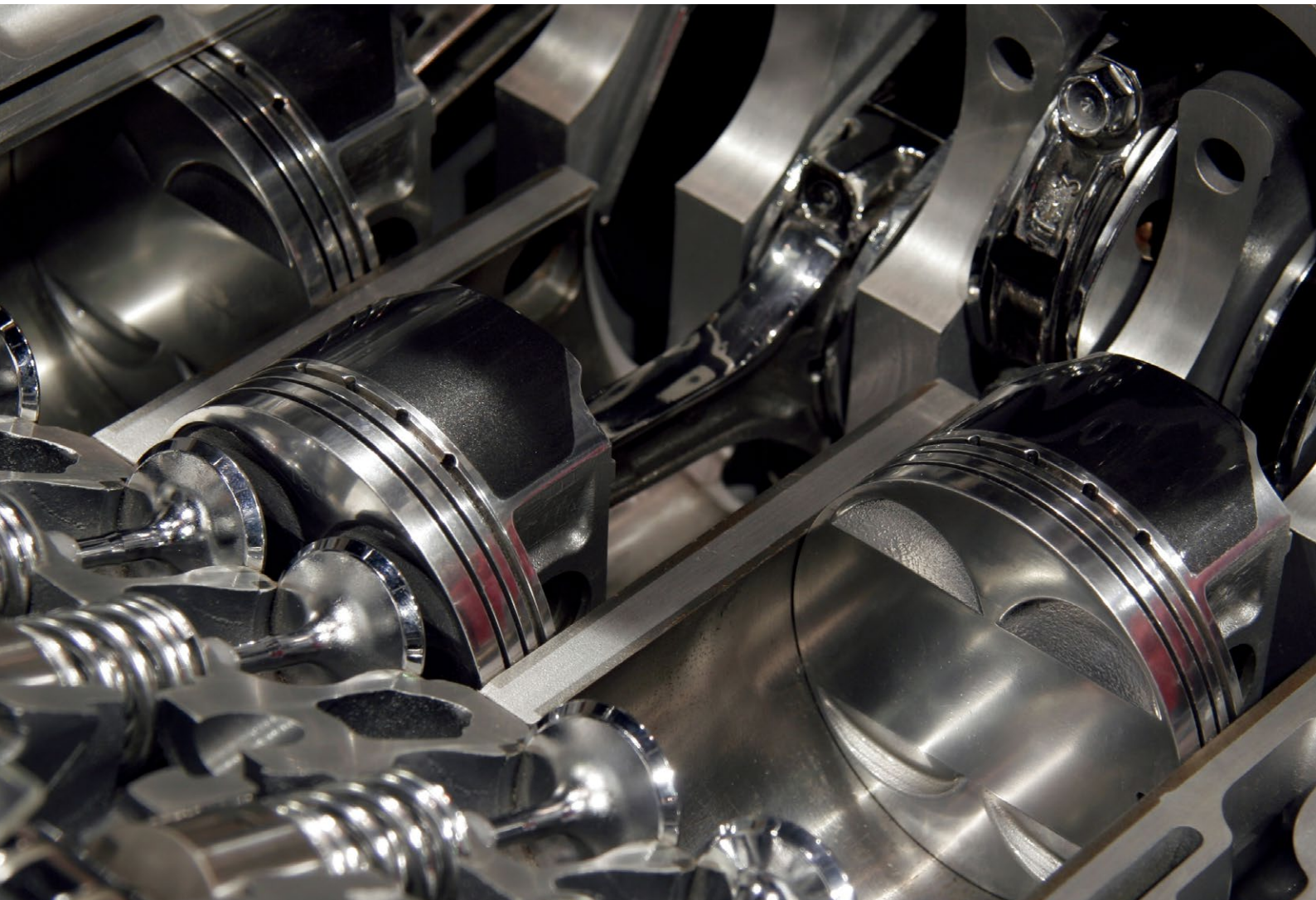
		
MECHANICAL SEAL	CASING RING	PUMP SHAFT
		
IMPELLER	STATOR	

AIR COMPRESSOR

		
CONNECTING ROD BEARING	CONNECTING ROD	CYLINDER HEAD GASKET
		
SUCTION VALVE	VALVE PLATE	PISTON RING
		
BUSH		



PISTON



CYLINDER LINER



• YANMAR TYPE

HAL 130/KDL, KFL
KFL UT/LA-UT, DT
S165(AL)/S165(FCD)
S165(2V, 4V), STUT/6RAL
N18(2V)/N18(4V)
N19/ULUT/M200
MAL-HT, DT-HTS(AL)
MAL-HT, DT, HTS(FCD)
N21(2V)/N21(4V)
M220/T220(AL)
GL-UT, ST(AL)/GL-UT, ST(FCD)
T240/N260/NY26
N330(2V)/N330(4V)
EY26/N165
N280(2V)/N280(4V)
EY18/S185(FCD)
S185(AL)/EY22

• DAIHATSU TYPE

PKTB16(2V)/PKTB16(4V)
DL16/DSI8A
DL19/PS20
DC17/DL22
DS22/DS26
PS-26D/PS30D
DL20(AL)/DL20(FCD)
DK20/DK20 T2/DK32
DE18(MONO)/DE18(TWO PART)
DK28/DK26

• SULZER TYPE

S20/A25
25/34

• NIIGATA TYPE

6NSF-G/6L16HS
6NSFBC-G
16XA(NSD-G)
16XC(FCD)/16XC(AL)
6L16X/18X/18X(CR)
20AX/20AX(CR)
25BX/25BX(CR)
25CX/25CX(CR)
28AFT/34BGT
31EZ/34HLX

• MAN TYPE

16/24
21/31
23/30(T1, 6HOLES)
23/30(T2, 16HOLES)
27/38
28/32
32/40

• MAK TYPE

M20/M25



• YANMAR TYPE

HAL 130/KDL, KFL
KFL UT
LA148/LA150
S165/N165/NY16
6RAL/N18/EY18
S185/M200/M220
N21/EY22
MAL-HT/MAL-DT
T220/GL24
T260/EY26
N260/N280/N330

• DAIHATSU TYPE

PKTB16/PKTB16(Zn)
PKTD/PKTD(Zn)
DL16/DL16A
DC17/PS18
DL19/PS20
DLB20/DK20
PSD225/DS22
DS22(Zn)/PS22
DK22/DL22
DL24/DL26
PS26D/PS26H
DS26/DS26A
DS28/DK28
DK32/DK26

• NIIGATA TYPE

6NSF-G/6L16HS
6L16XC, 16X
6L16XC(Zn)
6NSD-G
18CX/20CX/20AX
22X/22HX
LX22/25BX
25CX(Zn)/25BX(Zn)
6M26(Zn)/6L27.5X
28AFT

• MAK TYPE

M20/M25/M32
2924/2416
• MAN TYPE
16/24, 21/31
23/30, 27/38
28/32, 32/40
35MC

• SKL TYPE

2924/2416
• SULZER TYPE
S20
25/34



SCOPE OF SUPPLY



DONG HWA PNEUTECH

- (EX JONG HAP TANABE, JONGHAP PNEUTECH)
- Air/Gas Compressor



SAM GONG

- Ladder & Reel - Oil Purifier
- Windows
- Valver Remote Control System



DONG HWA ENTEC

- Air Cooler
- Plate Heat Exchanger
- Vacuum Condenser



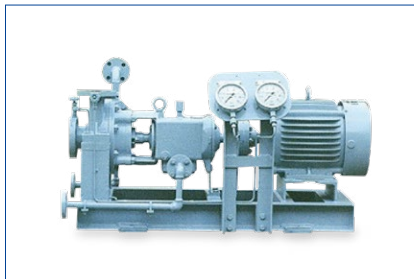
DAE YANG

- Engine Monitoring System
- Anemometer & Anemoscope
- Temperature Senser
- Pressure Senser



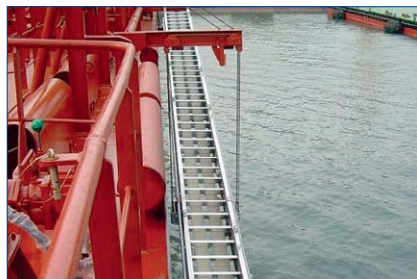
HI-AIR

- Compressor
- Air Conditioning Systems



SHIN SHIN MACHINERY

- Marine Pumps



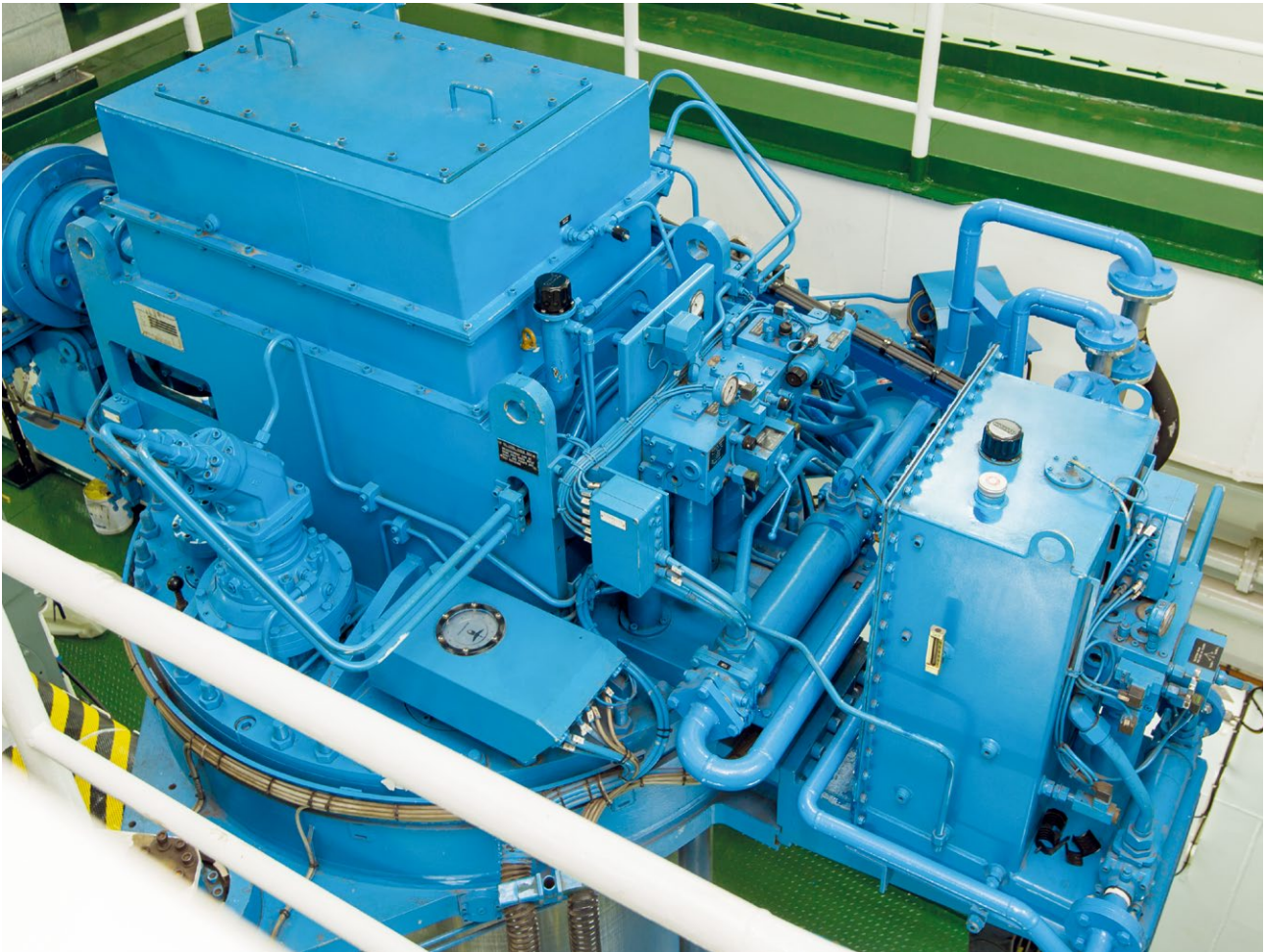
JUNG-A MARINE

- Ship's Ladder
- Clear View Screen Window



KANG RIM

- Marine Boiler
- Exhaust Gas Economizer & Boiler
- Waste Oil(Incinerator)



OTHER COMPANIES

- | | | |
|--|----------------------------|----------------------------|
| · ARAM MACHINERY | · DONGNAM MARINE | · MEIYO ELECTRIC |
| · BLOHM & VOSS | · DONGWOO MACHINERY | · NK LTD |
| · BY CONTROL | · HALLA LEVEL CO | · ORIENTAL PRECISION |
| · CATHELCO | · HAN-YANG VALVE | · SAMGONG |
| · CHUNGSOL MARINE | · HI-AIR | · SEA-PLUS |
| · DAEHWA ENGINEERING | · HYUNDAI ELECTRIC | · SHIN SHIN PUMP |
| · DAEYANG ELECTRIC | · HYUNDAI ELEVATOR | · SHINSUNG ELECTRIC |
| · DMS | · HYUNDAI LIFE BOAT | · SQ TECH(DAEHO FLOW.) |
| · DONGHWA PNEUTECH (EX JONGHAP TANABE, JONGHAP PNEUTECH) | · HYUNDAI MARINE MACHINERY | · TAEIL BOLWER |
| · DONGHWA PRECISION' DONGKWANG | · JUNG-A MARINE | · TONGMYUNG HEAVY INDUSTRY |
| · VALVE | · KANGRIM BOILER | · WILSON WALTON |
| · DONGKWANG VALVE | · KC LTD | · YONGSUNG ELECTRIC |
| | · KEYSTON VALVE | · YOOWON INDUSTRY |
| | · KMTC | |

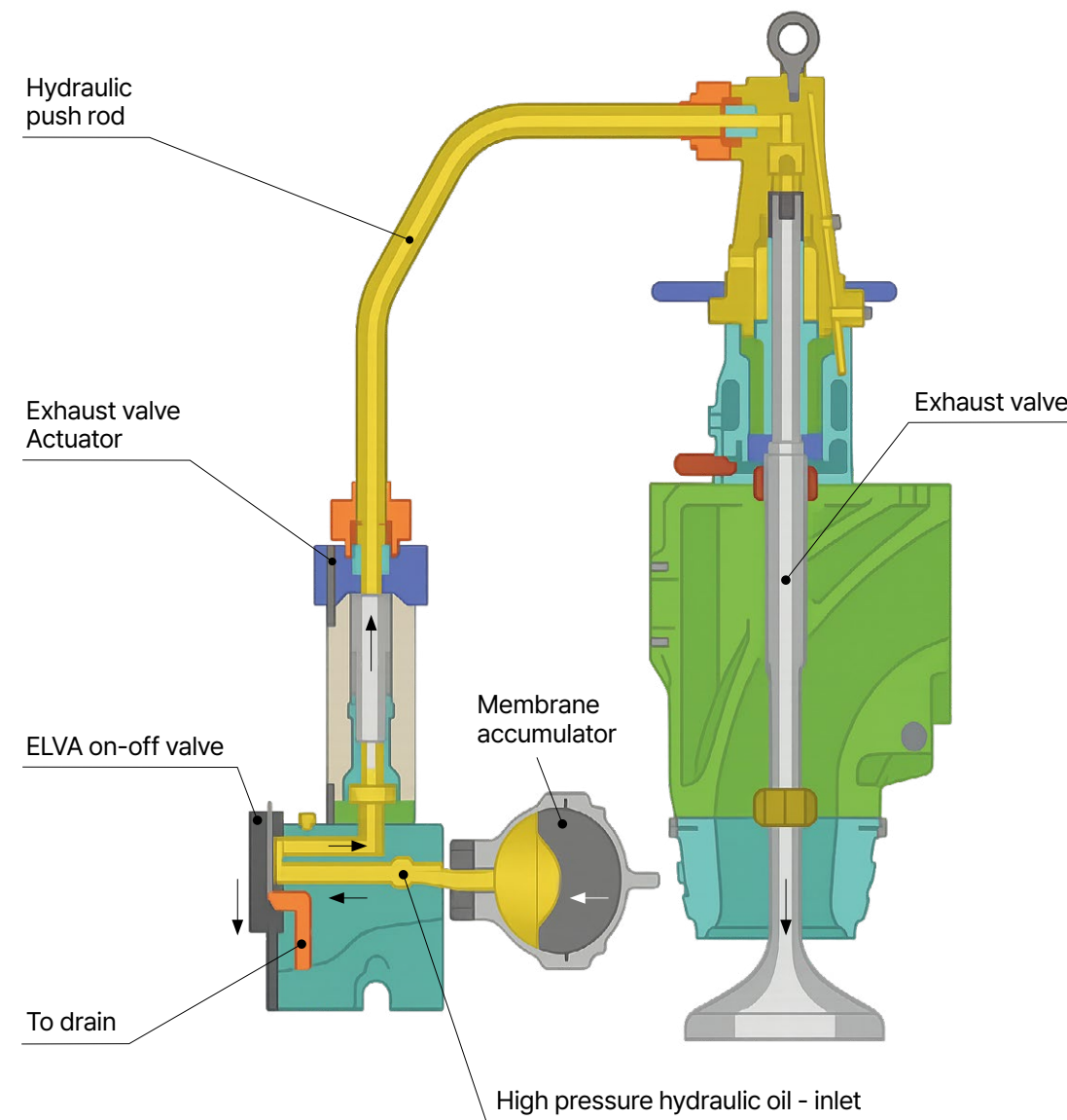
- TURBO CHARGER
- MAN T/C OF NA & NR (NR15R, 20R, 24R, NA57 ETC)
- VTR 564(D.E)-32, 714(D.E)-32
- TPL, TPS.

JAPANESE MACHINERY

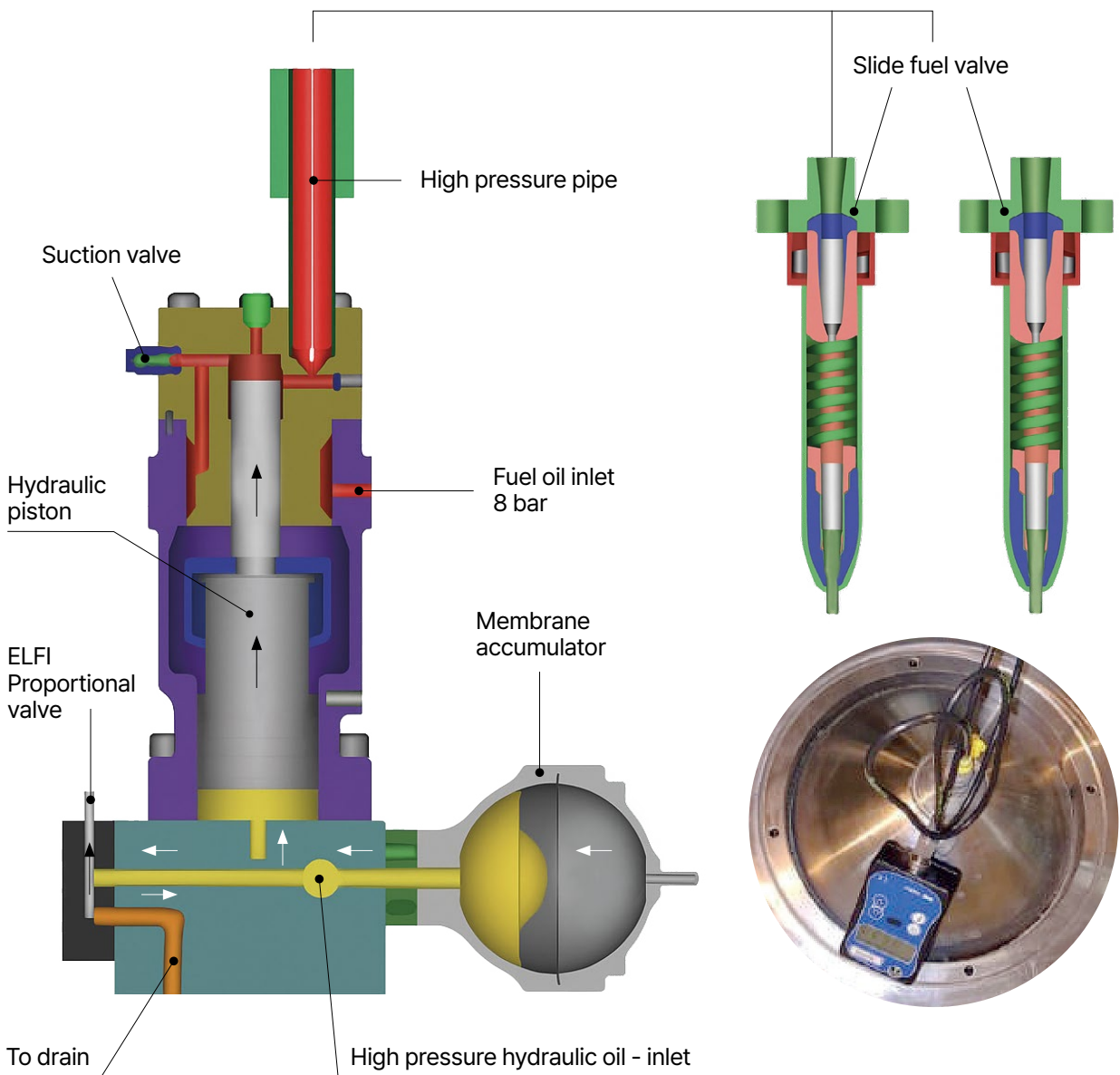
- SHINKO, NANIWA, TAIKO, HEISHIN, TEIKOKU
- YANMAR, DAIHATSU, M.K.K(MITSUBISHI PURIFIER), ETC

Technical Inspection Service for Me Engines

Hydraulic cylinder unit with fuel injection pump and exhaust valve actuator



Hyd. System for Fuel Oil



ME Engine

An electronically controlled marine engine.



Hydraulic System

A system that uses pressurized oil to power components.



Fuel Injection

The process of precisely delivering fuel into the engine's cylinders.



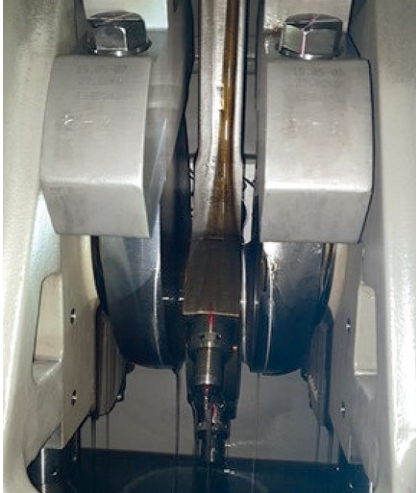
Exhaust Valve

A valve that controls the release of exhaust gas from the cylinder.

Engine Technical Services



Technical Service for Middle Speed(4-strok) Engines



Inspection of Crank Chamber



Cyl. Head



Fuel Injection Pump



Fuel Injector



Maintenance of Major Overhaul



Maintenance of Major Overhaul

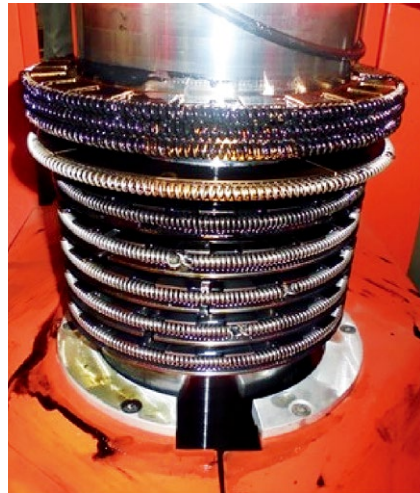
Technical Service for Low Speed(2-strok) Engines



X-heed Bearing



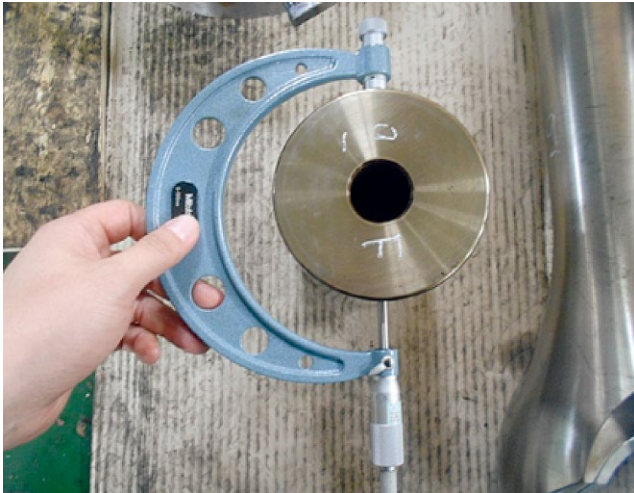
Inspection of Oil Flow



Grand Box



Small end bearing measurement



Piston pin measurement