



Hydraulic Leading Company

COMPANY INTRODUCTION & HISTORY

As a company specializing in hydraulic machinery for marine engines, Hanmi Hydraulic Machinery, has been providing customers with the best, high-quality services through continuous research and development since its establishment in July 1985.

Recognized for our advanced technology, we have maintained a long-term partnerships with major engine makers in Korea and other countries. We are making ceaseless efforts to achieve better quality and price competitiveness and to respond to the needs of a diversifying market.



✓ CONTENTS

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2025

- Developing sealing oil unit of J-Engine's hydrogen/Ammonia engine
- Developing new HIMSEN Engine's Nozzle Tester(H22/32CDF-LM/LA, H54DF)

2024

- Upgrading hydraulic Top Bracing double acting with on/off type
- Developing WIN GD DF-M/A Gas Valve Tester
- Developing ME-LGIA Gas Valve Tester
- Developed ME-LGIM Sealing Oil Unit

2023

- Developed ME-LGIM Gas Valve Test Device

2022

- Developed ME-GA Gas Valve Test Device(Integrated Type)

2021

- Developed ME-LGIP Gas Valve Test Device
- Developed Double-Acting with On/Off Control Hydraulic Top Bracing

2019

- Acquired WIN GD FTPA Certificate of Cylinder Lubricating Pump(Mk-I & Mk-ε)
- Patented ME-GI Mk-I Gas Valve Test Device

2018

- Developed MAN ES FBIV/PBIV Test Device
- Developed Double-Acting Hydraulic Top Bracing Acquired
- WIN GD Approval Certificate of Cylinder Lubricating Pump(Mk-ε)

2017

- Acquired MAN ES FTPA Certificate of Alpha Lubricator Mk- II
- Developed On/Off Control Hydraulic Top Bracing

2016

- Developed ME-GI Mk-I Gas Valve Test Device
- Developed WIN GD X-DF Engine Injector Test Bench

2015

- Acquired Provisional Certificate of MAN ES Alpha Lubricator Mk- II
- Developed GI Gas Booster Unit

2014

- Acquired Supplier Approval Certificate of WIN GD X-Engine Cylinder Lubricating Pump
- Developed WIN GD X-Engine Injector Test Bench

2012

- New factory & Office - Awarded 2nd
- Government President Award-Single PPM

2011

- Acquired ISO14001
- Awarded 1st Government President Award-Single PPM

2003

- Produced MC Alpha Lubricator & ME Alpha Lubricator Mk-I
- Acquired ISO9001

1995

- Produced Hydraulic Top Bracing

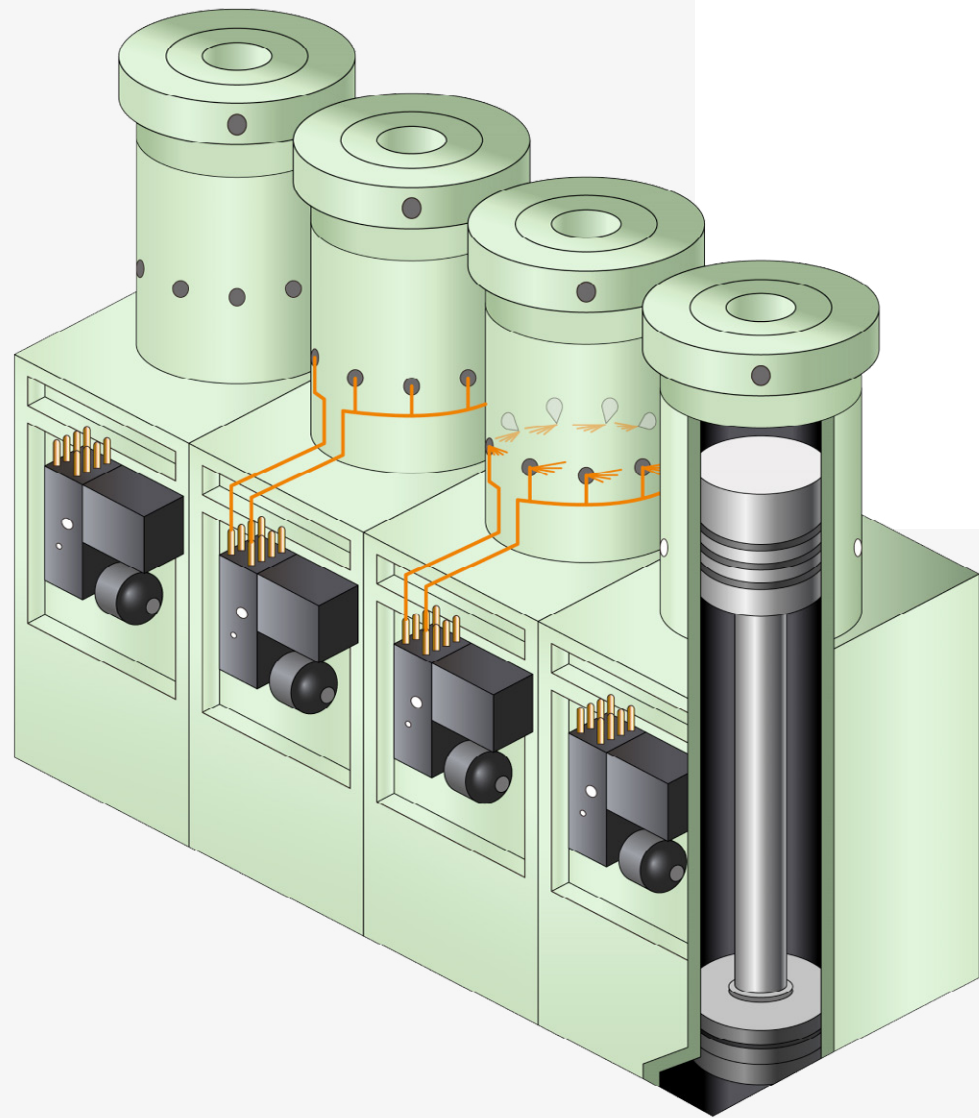
1987

- Produced Fuel Valve Test Device
- Produced Air Driven High Pressure Pump & Hydraulic Jack

1985

- Established

LUBRICATOR LUBRICATING PUMP



The lubricator and lubricating pump, a product that supplies lubricant oil directly to the main engine cylinder liner, can control injection timing and consumption using an electronic control method that responds to the movement of the main engine piston.



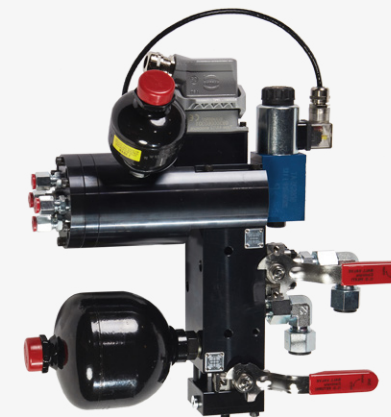
✓ MAN ES



ME LUBRICATOR Mk-I
60-95ME

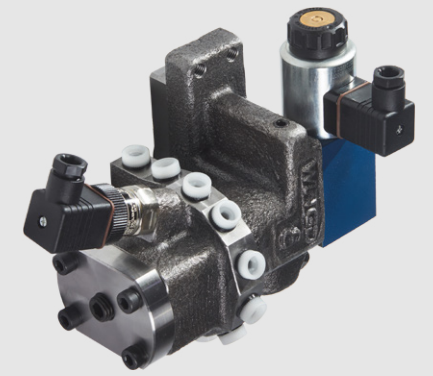


ME LUBRICATOR Mk-I
35-50ME



MC LUBRICATOR

✓ WIN GD



LUBRICATING PUMP Mk-ε



LUBRICATING PUMP Mk-I

HEATING TANK UNIT OIL SUPPLY UNIT BOOSTER PUMP STATION

02



These devices are to heat the lubricant oil. The lubricant oil heated by heating unit is delivered to main engine cylinder through lubricator unit.

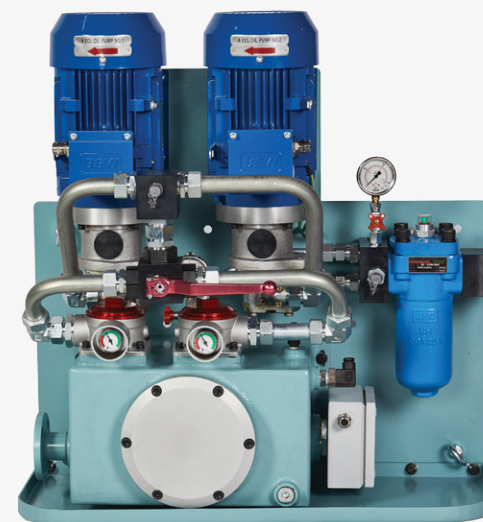
HEATING TANK UNIT

Heating unit is to heat lubricating oil.
The lubricating oil heated by heating
unit is delivered to main engine cylinder
through M/E lubricator unit.



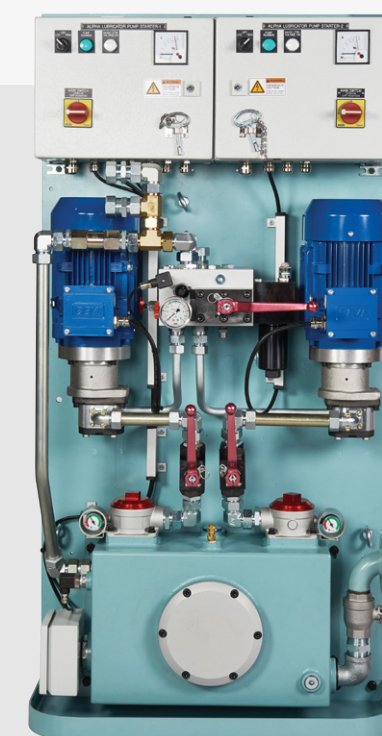
OIL SUPPLY UNIT

J-ENG UEC A-ECL Supply unit is to heat
lubricating oil. The lubricating oil heated
by heating unit is delivered to main engine
cylinder through lubricator unit.

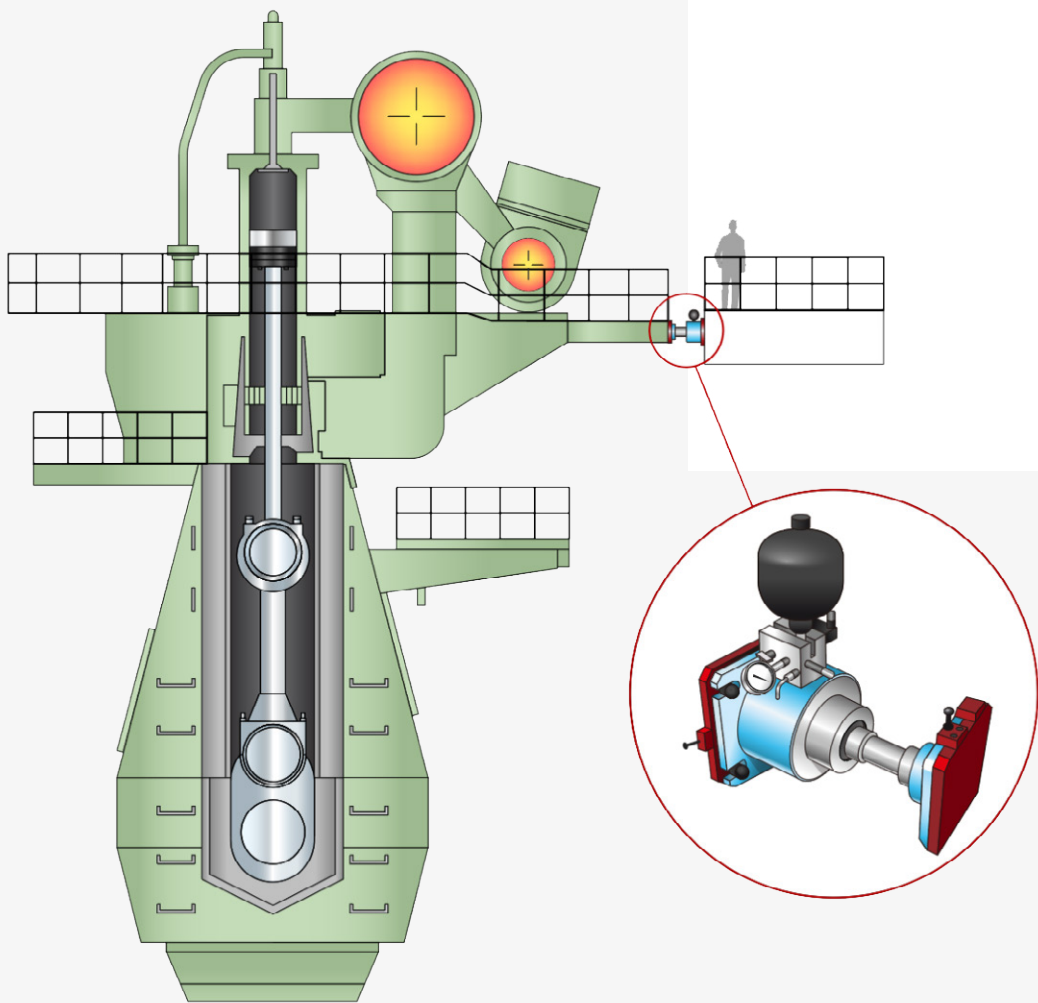


BOOSTER PUMP STATION

The pump station consists of two
individually operating pumps, filters and a
suction tank. For safety reasons, the power
supply to the pump station starter panels is
taken two separate circuits, one supplying
each pump.



HYDRAULIC TOP BRACING

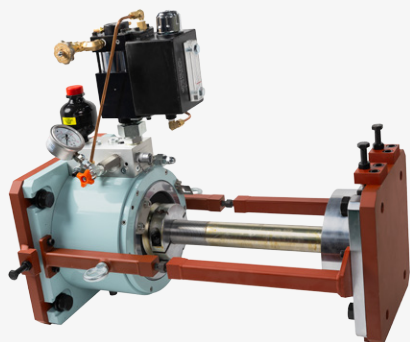


Patent registration numbers

10-1708627, 10-1801231, 10-1910633

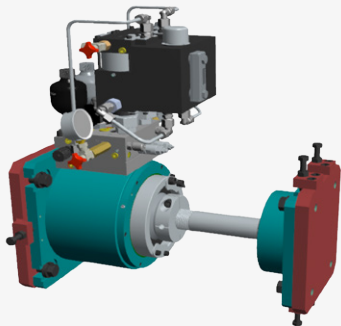
This hydraulic equipment, installed between the engine and hull, helps prevent resonance by controlling the operation mode of the top bracing according to the main engine's RPM, reducing thermal expansion and vibrations during ship operation. The hydraulic top bracing responds flexibly to compressive stress and varying loading conditions. Depending on the engine size and the number of cylinders, two, four, or six top bracings are typically installed.

MAN ES



HTBA225-30

Type	On/Off
Cyl. Dia. (mm)	225
Cyl. Max.Force (kN)	183(H) / 127(L)
Air Supply (bar)	6(H) / 3.5(L)
Weight (kg)	160



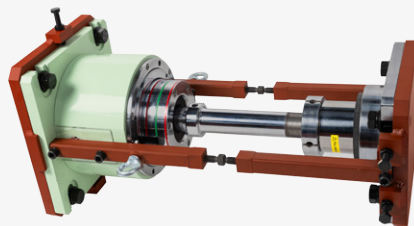
HTBD225-30

Type	Double Acting & On/Off
Cyl. Dia. (mm)	Push-225 & Pull-180/225
Cyl. Max.Force (kN)	183(H) / 127(L)
Air Supply (bar)	6(H) / 3.5(L)
Weight (kg)	ABT. 180



HTBS225-30

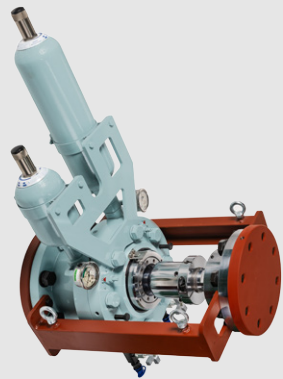
Type	High/Low
Cyl. Dia. (mm)	225
Cyl. Max.Force (kN)	183(H) / 127(L)
Air Supply (bar)	N/A
Weight (kg)	160



HTBS200-30

Type	High/Low
Cyl. Dia. (mm)	160/200
Cyl. Max.Force (kN)	127(H) / 82(L)
Air Supply (bar)	N/A
Weight (kg)	160

WIN GD



TBD200-30

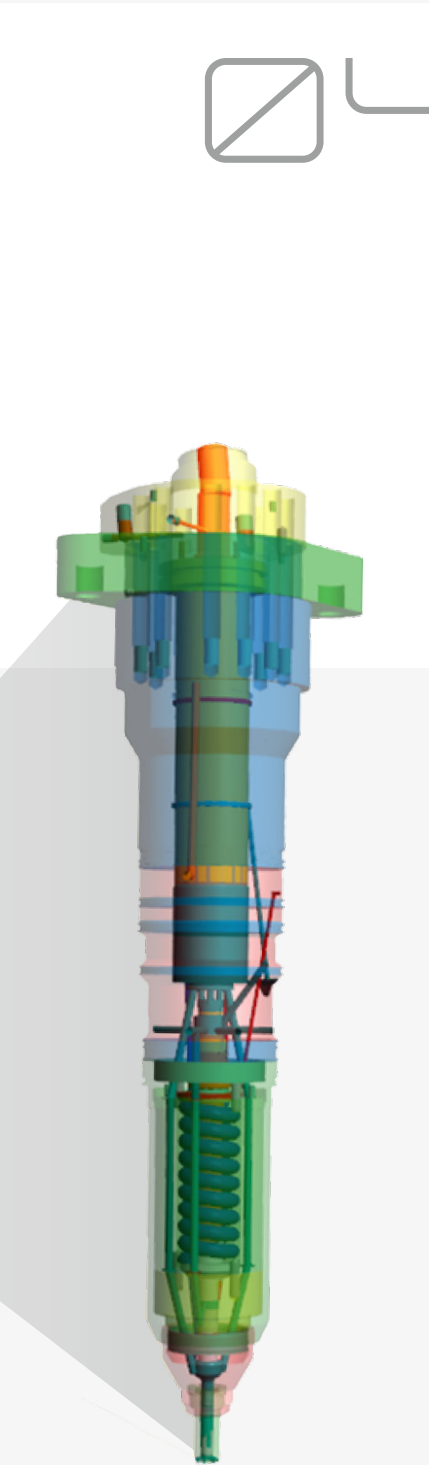
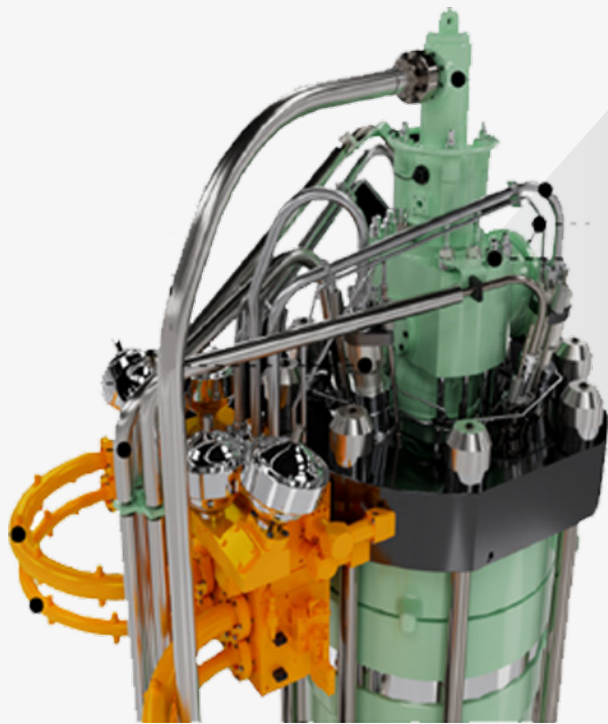
Type	Double Acting
Cyl. Dia. (mm)	Push-200 & Pull 160/200
Cyl. Max.Force (kN)	Push : 160, Pull : 160
Air Supply (bar)	N/A
Weight (kg)	200



TBS250-30

Type	Single Acting
Cyl. Dia. (mm)	200
Cyl. Max.Force (kN)	160
Air Supply (bar)	N/A
Weight (kg)	138

FUEL VALVE
TEST DEVICE



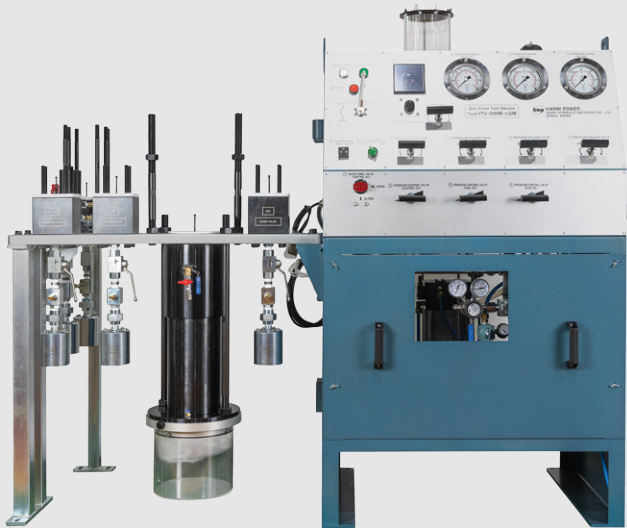
Patent registration numbers
10-1785407, 10-1722966, 10-1924637, 10-2392799, 10-2460186, 10-2539726

This device is for testing injection and leakage of valves mounted on the main engine. There are test devices for both diesel engines and eco-friendly dual-fuel gas engines (GI/E, LGIP/M/A, XDF-M/A) manufactured with a in-house technical expertise from design to production.



VTU-500ME-LGIA

Engine Type	ME-LGIA
	Sealing Oil : 40
	Control Oil : 500
Working Pressure (bar)	Fuel Oil : 10
	Gas pressure : 300
	New Developing



VTU-500ME-LGIM

Engine Type	ME-LGIM
	Sealing Oil : 40
	Control Oil : 500
Working Pressure (bar)	Fuel Oil : 10
	Gas pressure : 300



VTU-500ME-LGIP

Engine Type	ME-LGIP
	Sealing Oil : 80
	Control Oil : 330
Working Pressure (bar)	Fuel Oil : 50
	Gas pressure : 330



VTU-500ME-GI/GIE

Engine Type	ME-GI
	Sealing oil : 340/400
	Control Oil : 300
Working Pressure (bar)	Gas pressure : 300

FUEL VALVE TEST DEVICE

✓ MAN ES



HDFD-1100

Engine Type	MC/ME
Working Pressure (bar)	900



FBTD-1300

Engine Type	ME
Working Pressure (bar)	900

✓ WIN GD



VTU-2500(DF)

Engine Type	X82/92(DF)
Working Pressure (bar)	Electric Motor : 480 Pneumatic pump : 1,500



VTUE-2000(DF)

Engine Type	X52-72(DF)
Working Pressure (bar)	900



FMTD-2200

Engine Type	ME-GA
Working Pressure (bar)	Control oil : 500 Fuel Oil : 8



VTU-2500DF-M

Engine Type	X52/82/92DF-M
New Developing	

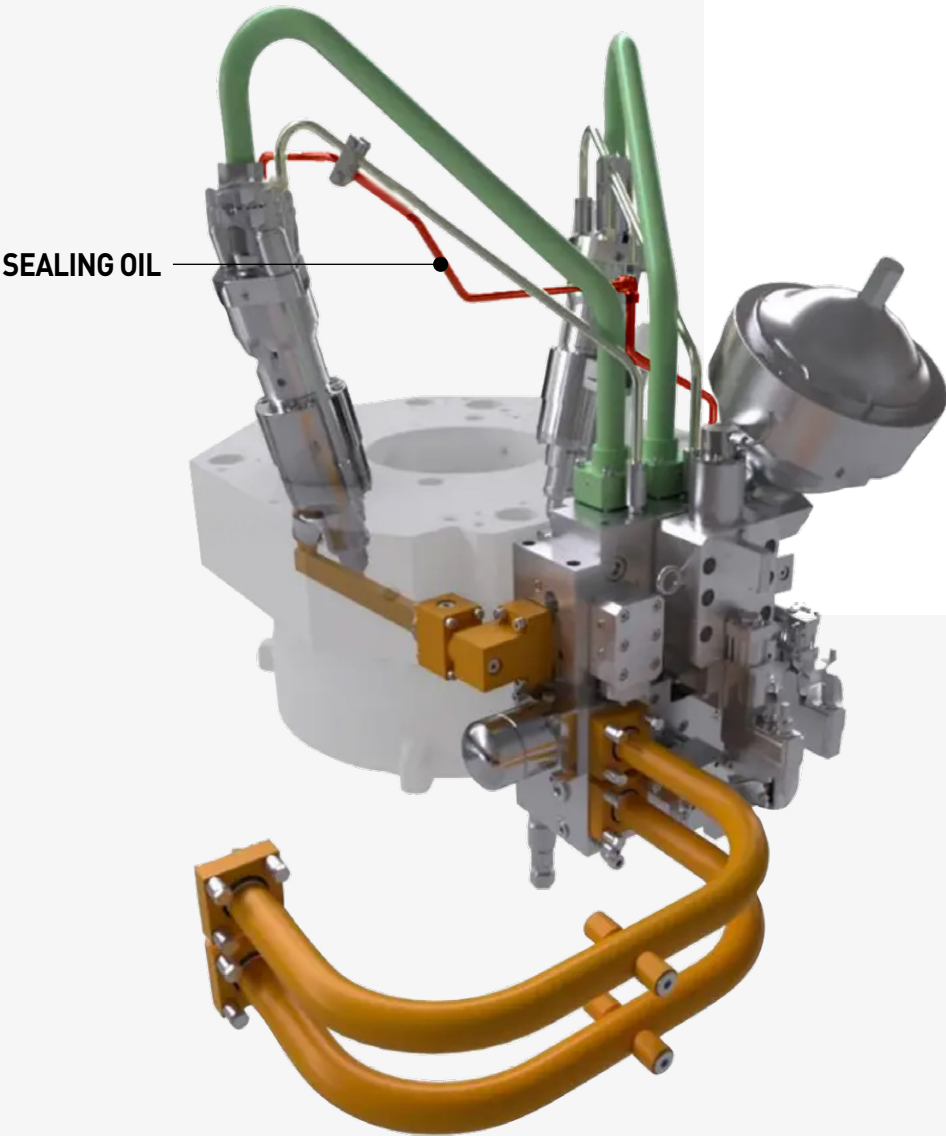


VTU-2500DF-A

Engine Type	X52/72DF-A
New Developing	

SEALING OIL UNIT

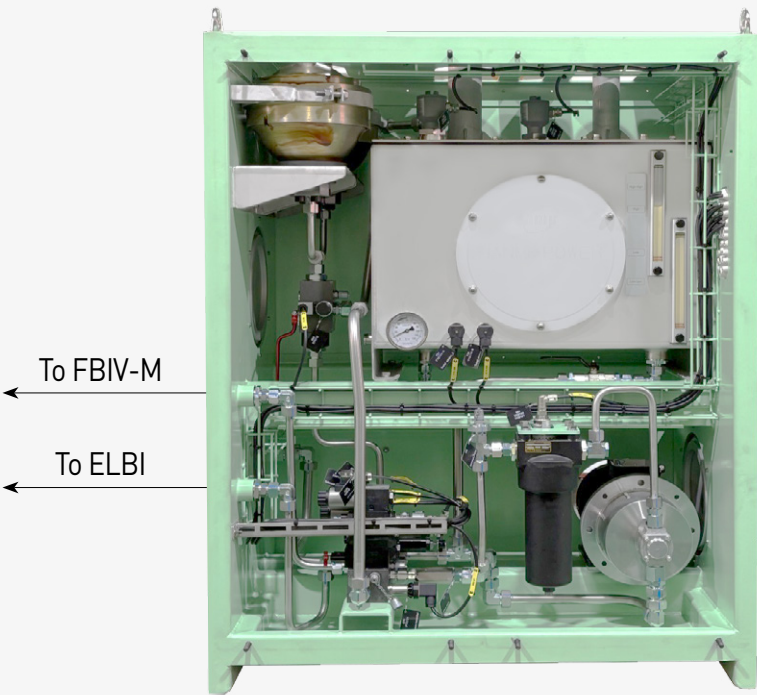
05



This unit (SOU) supplies sealing oil to prevent the mixing of hydraulic oil and liquefied methanol gas inside the FBIV (Fuel Booster Injection Valve) during the operation of the main engine.

The main components include an oil tank, an electric motor, a hydraulic gear pump, an oil filter, a control block, accumulators, and various sensors, transmitters, and indicators.

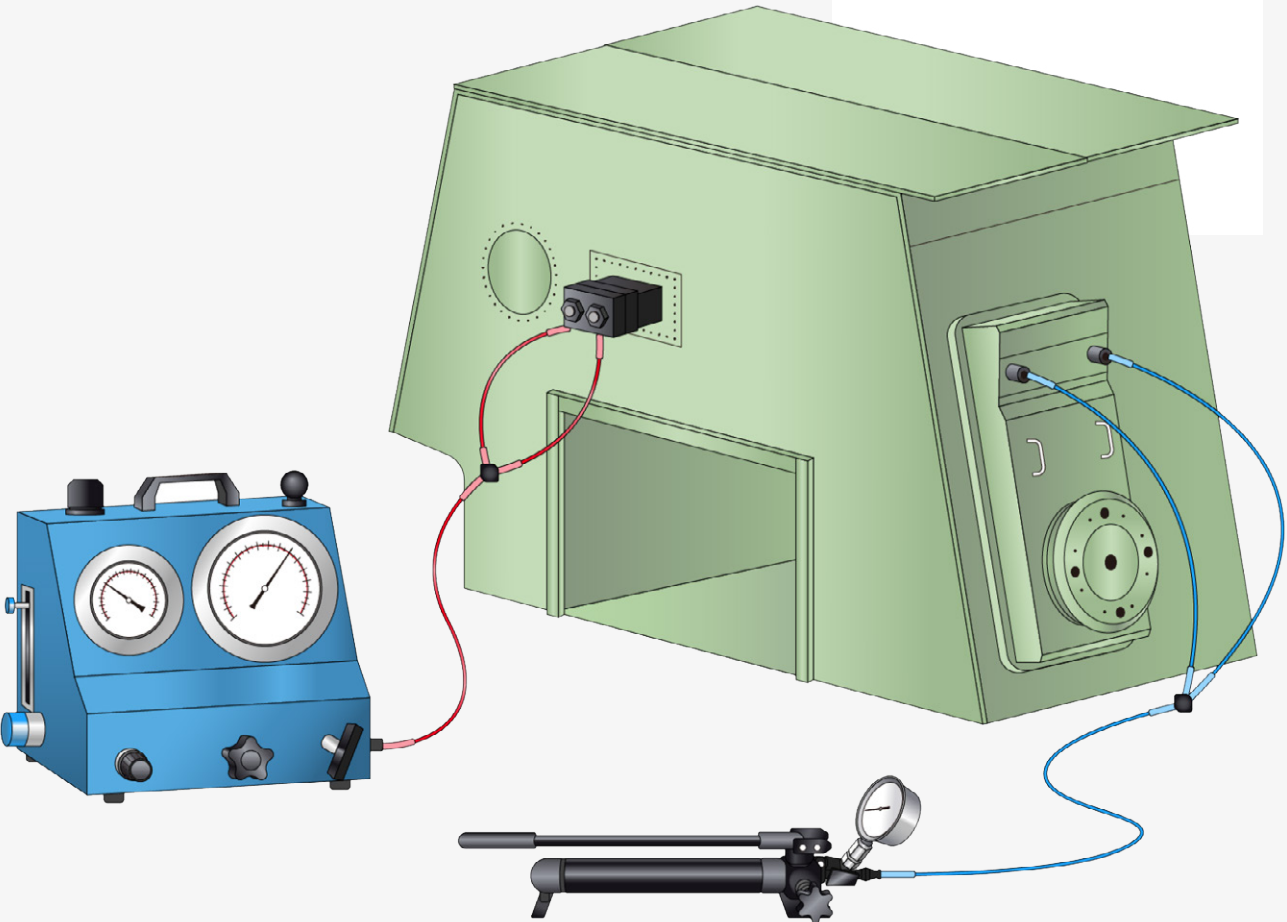
The SOU is classified into large bore type (over 60 bore) and small bore type (50 bore and below) based on the number of membrane accumulators.



SOU Type	Small Bore	Large Bore
Engine	35ME~50ME	60ME~95ME
Remark	1 accumulator	2 accumulators

AIR DRIVEN HIGH PRESSURE PUMP

This equipment supplies high-pressure hydraulic oil to the tool of a ship engine with an air-driven method. It is supplied to engine manufacturers as a hydraulic tool package, along with hydraulic jack, hose, coupling and a distributor.



✓ AHP Series



AHP-1500

Max. Pressure (bar)	1,500
Auto Stop Pressure (bar)	1,060
Max. Flow Rate (l/min)	0.35



AHP-1500.2

Max. Pressure (bar)	1,500
Auto Stop Pressure (bar)	1,060
Max. Flow Rate (l/min)	0.5



AHP-2000

Max. Pressure (bar)	2,000
Auto Stop Pressure (bar)	1,750
Max. Flow Rate (l/min)	0.18



AHP-2500

Max. Pressure (bar)	2,000
Auto Stop Pressure (bar)	1,750
Max. Flow Rate (l/min)	0.81



AHP-2500.1

Max. Pressure (bar)	2,500
Auto Stop Pressure (bar)	2,000
Max. Flow Rate (l/min)	1.45(L), 0.5(H)



AHP-3000

Max. Pressure (bar)	2,500
Auto Stop Pressure (bar)	-
Max. Flow Rate (l/min)	0.5



AHP-3000.1

Max. Pressure (bar)	2350
Auto Stop Pressure (bar)	2,000
Max. Flow Rate (l/min)	0.5



AHP-3500

Max. Pressure (bar)	3,500
Auto Stop Pressure (bar)	2,500
Max. Flow Rate (l/min)	0.7

HAND PUMP

As an alternative to an air-driven hydraulic pump, this device can be used in an emergency to reach various required pressures using hand force. With a portable hydraulic unit and compact design, it can be easily carried and put into operation.



✓ HML Series



HML-1600

Max. Pressure(bar)	1,500
Working Pressure(bar)	1,500
Weight(kg)	8.5



HML-1700N / 2000N

Max. Pressure(bar)	1,700 / 2,000
Working Pressure(bar)	1,700 / 2,000
Weight(kg)	9.2



HML-2500

Max. Pressure(bar)	2,350
Working Pressure(bar)	1,800
Weight(kg)	8.5



HML-3500

Max. Pressure(bar)	3,000
Working Pressure(bar)	2,500
Weight(kg)	15

HYDRAULIC JACK

The product is designed for the assembly and disassembly of main engines on large vessels and hull structures. A hydraulic jack uses oil and an incompressible fluid to easily lift materials, structures, and more. It transmits large power to a force application point with minimal force. Our product is ideal for locations with heavy loads, as it accurately and stably controls high pressure.



✓ MAN ES

Working Pressure(bar)	900		1,500		2,200	
Engine Type	S35MC	S80MC	S46MC-C	S80MC-C	S70ME-C	G60ME-C
	S42MC	K80MC-C	S50MC-C	S90MC-C	S80ME-C	G70ME-C
	S50MC	K90MC-C	S60MC-C	K98MC-C	S90ME-C	G80ME-C
	S60MC		S70MC-C		K80ME-C	G90ME-C
					K98ME-C	G95ME-C



✓ WIN GD

Working Pressure(bar)	900			1,500		
Engine Type	RTA48T/TB/TD	RTA62/U	RTA84C/CU	RT-flex48TD	RT-flex60C	RT-flex84TD
	RTA52/U	RTA72/U	RTA84T/TB/TD	RT-flex50/B	RT-flex68B/D/TB	RT-flex96C
	RTA58T/TB	RTA82C	RTA96C	RT-flex58TB/TD	RT-flex82T	WX-62/72/82/92DF

✓ J-ENG

Working Pressure(bar)	1,000 – 1,800		
Engine Type	UEC35LSE	UEC45LSE	UEC50LSE
	UEC42LSH	UEC50LSH	UEC60LSE

HIGH PRESSURE HOSE AND COUPLING



A high pressure hydraulic hose and coupling ensure safe repair and maintenance of a marine engine. Domestic development of the coupling has been completed, and the coupling can be easily fastened via a one-handed and one-touch method.

✓ 1.5K Series



HC-1.5K

Max. Pressure	1,500bar / 150MPa
Connection	G1/4" Female Thread



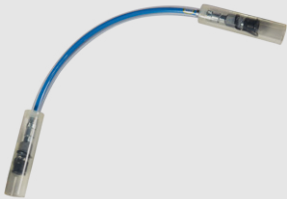
HNC-1.5K

Max. Pressure	1,500bar / 150MPa
Connection	G1/4" Male Thread



HN-1.5K

Max. Pressure	1,500bar / 150MPa
Connection	G1/4" Male Thread without valve



Hose

Max. Pressure	1,800bar / 180MPa
Connection	-

✓ 2.0K Series



HC-2.0K

Max. Pressure	2,000bar / 200MPa
Connection	G1/4" Female Thread



HNC-2.0K

Max. Pressure	2,000bar / 200MPa
Connection	G1/4" Male Thread



HN-2.0K

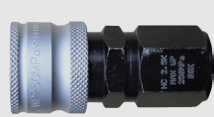
Max. Pressure	2,000bar / 200MPa
Connection	G1/4" Male Thread without valve



Hose

Max. Pressure	2,500bar / 250MPa
Connection	-

✓ 2.5K Series



HC-2.5K

Max. Pressure	2,500bar / 250MPa
Connection	G1/4" Female Thread



HNC-2.5K

Max. Pressure	2,500bar / 250MPa
Connection	G1/4" Male Thread



HC-L2.5K

Max. Pressure	2,500bar / 250MPa
Connection	G1/4" Female Thread



Hose

Max. Pressure	2,500bar / 250MPa
Connection	-

CHARGING AND PRESSURE MEASUREMENT TOOL



CHARGING TOOL

Charging tool is a charging and testing unit used to charge accumulators with nitrogen or to check and change the existing pre-charged pressure in accumulators.



DIGITAL GAUGE

The HANMI PRESSURE GAUGE is a portable digital pressure gauge with 0.25% FS(Full scale) accuracy, multiple measurement units, Min./Max. readings, auto zero and automatic power off to conserve battery.

- BACKLIGHT
- ALUMINUM DIECASTING HOUSING
- IP65 PROTECTION RATE



PRESSURE MEASUREMENT TOOL

Test pumps serve as pressure generators for the testing, adjustment and calibration of mechanical and electronic pressure measuring instruments through comparative measurements.



QUALITY MANAGEMENT

We achieve customer satisfaction with sincerity, proactive thinking, and development of creativity, ensuring continuous quality improvement and product reliability.

We prioritize customer value and achieve customer satisfaction through perfect quality that exceeds customer expectations.

SERVICE AREA



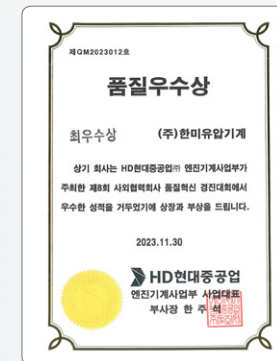
CUSTOMERS



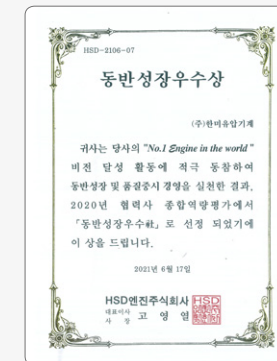




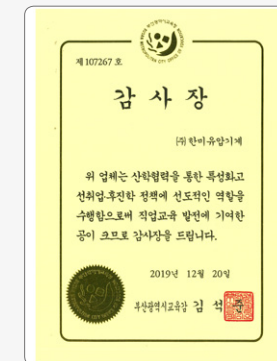
CERTIFICATION & AWARD



HHI 품질혁신경진대회
최우수상



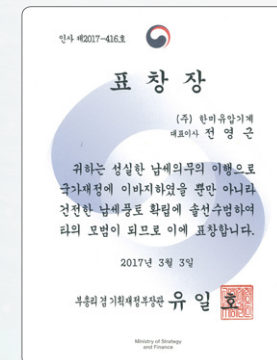
HSD엔진 동반성장
우수상



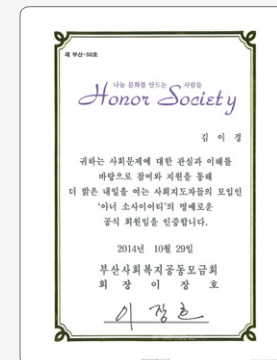
부산광역시 교육감
감사장



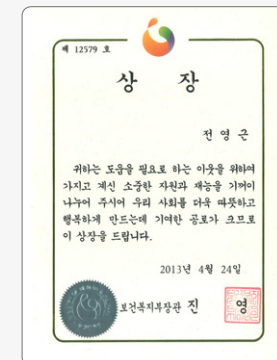
HHI엔진기계사업본부
품질분임조경진대회
최우수상 표창장



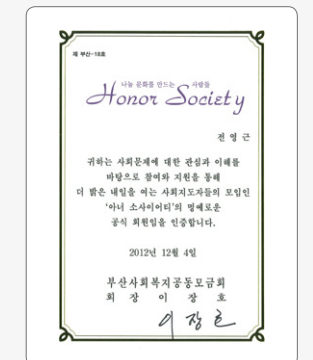
모범납세자 기획재정부
장관상



김이경 아너소사이어티
장관상



행복나눔인 보건복지부
장관상



전영근 아너소사이어티
장관상



싱글PPM 품질혁신단체분
대통령상



모범납세자 기획재정부
장관상



싱글PPM 품질혁신단체분
문대통령상



우수자본재개발유공기업
지식경제부장관상

CERTIFICATION & AWARD



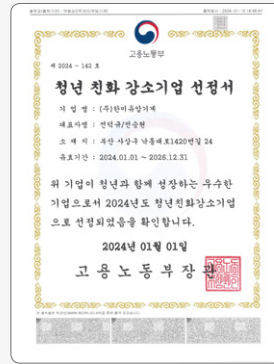
ESG우수중소기업
확인서



2024부산청결
기업선정서



성과공유기업 확인서



청년친화강소기업



특허증
(제10-2539726호)



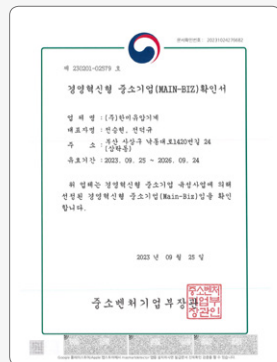
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특허증
(제10-2392799호)



디자인등록증
(제30-0999550호)



메인비즈확인서



ISO45001



ISO9001



ISO14001



특허증
(제10-1924637호)



특허증
(제10-1910633호)



특허증
(제10-1878815호)



특허증
(제10-1801231호)



EQ인증서



WIN G&D FTPA



LUBRICATOR
Mk.II CERTIFICATE



LUBRICATOR
Mk.I CERTIFICATE



특허증
(제10-1785407호)



특허증
(제10-1722966호)



특허증
(제10-1708627호)



특허증
(제10-1441548호)



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