HANMI HYDRAULIC MACHINERY

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COMPANY INTRODUCTION

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

HISTORY

2021
Developed ME-LGIP Gas Valve Test Device
Developed ME-GI Mk-II Gas Valve Test Device

2019
Acquired WIN G&D 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 G&D 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 G&D 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 G&D X-Engine Cylinder Lubricating Pump
Developed WIN G&D 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

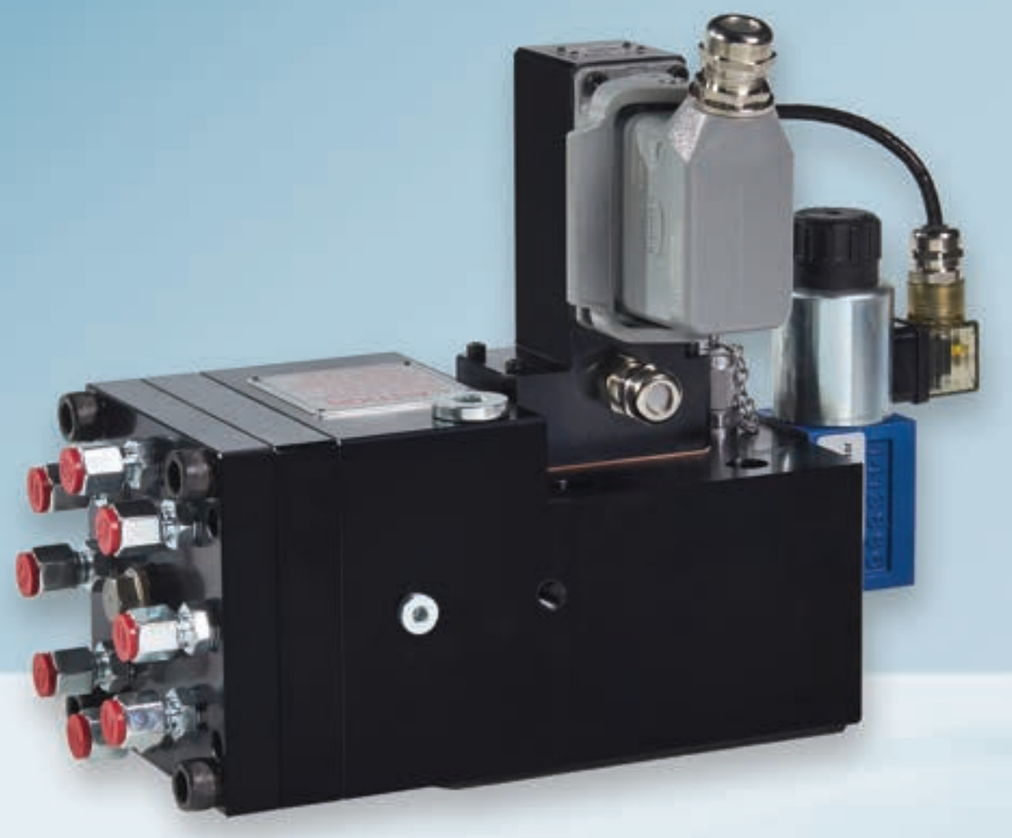
2003
Produced MC Alpha Lubricator & ME Alpha Lubricator Mk-I
Acquired ISO9001

1995
Produced Hydraulic Top Bracing

1987
Produced Fuel Valve Test Device
Produced Air Driven High Pressure Pump & Hydraulic Jack

1985
Established

LUBRICATOR & LUBRICATING PUMP

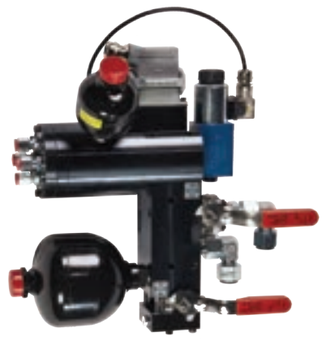


In order to decrease consumption of cylinder oil, set up the period injection timing along with the quantity of reciprocating piston that injects high pressure cylinder oil with certain amount to piston ring pack. It creates less noise and minimizes the leakage and it has a low peak voltage and quick contact speed.

MAN ES

ME LUBRICATOR Mk-I (60-95ME)

ME LUBRICATOR Mk-I (35-50ME)



MC/-C LUBRICATOR

WIN G&D

LUBRICATING PUMP Mk-ε

LUBRICATING PUMP Mk-I

HEATING TANK UNIT, OIL SUPPLY UNIT & BOOSTER PUMP STATION

In order to decrease consumption of cylinder oil, set up the period injection timing along with the quantity of reciprocating piston that injects high pressure cylinder oil with certain amount to piston ring pack. It creates less noise and minimizes the leakage and it has a low peak voltage and quick contact speed.

HEATING TANK UNIT

Heating unit is to heat lubricating oil. The lubricating oil heated by which heating unit is delivered to main engine cylinder through ME engine type lubricator unit.

OIL SUPPLY UNIT

J-ENG UEC A-ECL Supply unit is to heat lubricating oil. The lubricating oil heated by which heating unit is delivered to main engine cylinder through engine type 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 is hydraulic equipment which helps avoid resonance between an engine and the hull by controlling the operation mode of top bracing according to the RPM of the main engine, and reduces the vibration of the hull which may occur during ship operation. Hydraulic top bracing responds flexibly to the movement which occurs according to compressive stress or various loading conditions of the vessel. Depending on the size of the engine and the number of cylinders, two, four or six top bracings are installed as basic equipment.

MAN ES

Model	HTBA225-30	HTBS225-30	HTBS200-30
Type	On/Off	High/Low	High/Low
Cyl. Dia. (mm)	225	225	200
Cyl. Max. Force (kN)	183(H) / 127(L)	183(H) / 127(L)	127(H) / 82(L)
Air Supply (bar)	6(H) / 3.5(L)	N/A	N/A
Weight (kg)	160	160	160

WIN G&D

Model	TBD200-30	TBS250-30
Type	Double Acting	Single Acting
Cyl. Dia. (mm)	200	200
Cyl. Max. Force (kN)	Push : 160 Pull : 160	160
Air Supply (bar)	N/A	N/A
Weight (kg)	200	138

FUEL VALVE TEST DEVICE

Patent registration numbers

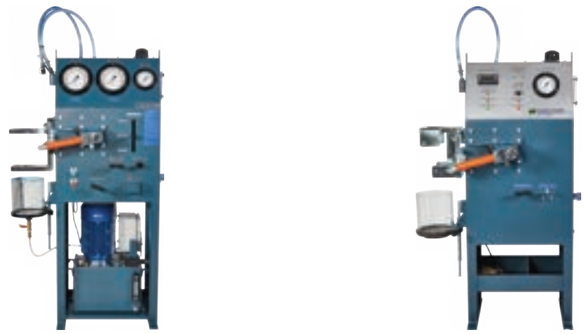
10-1785407
10-1722966
10-1924637

This equipment tests the performance of various fuel valves of ship's main engine. Fuel valves can be repaired and maintained in compliance with the test specifications recommended by MAN Energy Solutions and Winterthur Gas & Diesel.

MAN ES

Model	VTU-500ME-GI	VTU-500ME-LGI/GA	HDFD-1100
Engine Type	45-90ME-GI	35-60ME-LGI/GA	35-98MC/E-C
Working Pressure (bar)	Sealing Oil : 320 Control Oil : 300 Gas pressure : 300	Sealing Oil : 80 Control Oil : 300 Fuel Oil : 50 Gas pressure : 300	900

WIN G&D



Model	VTU-2500(DF)	VTUE-2000(DF)
Engine Type	X82/92(DF)	X50-72(DF)
Working Pressure (bar)	Electric Motor : 480 Pneumatic pump : 1,500	900

AIR DRIVEN HIGH PRESSURE PUMP

This equipment supplies high-pressure hydraulic oil to the tool of a ship engine by means of 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

Model	AHP-1500	AHP-1500.2	AHP-2000	AHP-2500
Max. Pressure (bar)	1,500	1,500	2,000	2,000
Auto Stop Pressure (bar)	1,060	1,060	1,750	1,750
Max. Flow Rate (ℓ/min)	0.35	0.5	0.18	0.81

Model	AHP-2500.1	AHP-3000	AHP-3000.1	AHP-3500
Max. Pressure (bar)	2,500	2,500	2,500	3,500
Auto Stop Pressure (bar)	2,000	-	2,000	2,500
Max. Flow Rate (ℓ/min)	1.45(L) 0.5(H)	0.5	0.5	0.7

HAND PUMP

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

HML Series

Model	HML-1600	HML-1700N / 2000N
Max. Pressure (bar)	1,500	1,700 / 2,000
Working Pressure (bar)	1,500	1,700 / 2,000
Weight (kg)	8.5	9.2

Model	HML-2500	HML-3500
Max. Pressure (bar)	2,350	3,000
Working Pressure (bar)	1,800	2,500
Weight (kg)	8.5	15

HYDRAULIC JACK

A hydraulic jack is a tool which uses oil, an incompressible fluid, to lift a work material, a structure etc. easily, and is capable, even with small force, of transmitting large power to an acting point of force. Our product is useful at a location with a relatively large weight, as it controls high pressure accurately and stably, and the product is specialized for assembly or disassembly of a main engines of a large vessel and a hull structure.

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

Engine Maker	WIN G&D		J-ENG
Working Pressure (bar)	900	1,500	1,000 – 1,800
Engine Type	RTA48T/TB/TD RTA52/U RTA58T/TB RTA62/U RTA72/U RTA82C RTA84C/CU RTA84T/TB/TD RTA96C	RT-flex48TD RT-flex50/B RT-flex58TB/TD RT-flex60C RT-flex68B/D/TB RT-flex82T RT-flex84TD RT-flex96C WX-62/72/82/92	UEC35LSE UEC42LSH UEC45LSE UEC50LSH UEC50LSE UEC60LSE

HIGH PRESSURE HOSE AND COUPLING

Patent registration numbers

10-1441548

A hydraulic hose and coupling for high pressure 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-hand and one-touch method.

1.5K Series

Type	HC-1.5K	HNC-1.5K	HN-1.5K	Hose
Max. Pressure	1,500bar / 150MPa	1,500bar / 150MPa	1,500bar / 150MPa	1,800bar / 180MPa
Connection	G1/4" Female Thread	G1/4" Male Thread	G1/4" Male Thread without valve	-

2.0K Series

Type	HC-2.0K	HNC-2.0K	HN-2.0K	Hose
Max. Pressure	2,000bar / 200MPa	2,000bar / 200MPa	2,000bar / 200MPa	2,500bar / 250MPa
Connection	G1/4" Female Thread	G1/4" Male Thread	G1/4" Male Thread without valve	-

2.5K Series

Type	HC-2.5K	HNC-2.5K	HC-L2.5K	Hose
Max. Pressure	2,500bar / 250MPa	2,500bar / 250MPa	2,500bar / 250MPa	2,500bar / 250MPa
Connection	G1/4" Female Thread	G1/4" Male Thread	G1/4" Female Thread	-

CHARGING AND PRESSURE MEASUREMENT TOOL

CHARGING TOOL

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

DIGITAL GAUGE

The HANMI PRESSURE GAUGE is a portable digital pressure gauge featuring accuracy 0.25%FS, 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. These pressure tests can be carried out statically in the laboratory or workshop, or on-site at the measuring point.

QUALITY MANAGEMENT

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

We put customer value first, and achieve customer satisfaction through perfect quality which exceeds customer expectations.

SERVICE AREA

CUSTOMERS

HYUNDAI HEAVY INDUSTRIES
HYUNDAI MIPO DOCKYARD
HYUNDAI SAMHO HEAVY INDUSTRIES
HYUNDAI GLOBAL SERVICE
HSD engine
stx Engine
stx Heavy Industries
DSME
SAMSUNG HEAVY INDUSTRIES
MAN Energy Solutions
WIN GD Winterthur Gas & Diesel
株式会社IHI原動機 IHI Power Systems Co., Ltd.
Kawasaki
Hitz
MITSUI E&S
CSSC
MAKITA CORPORATION
J-ENG Japan Engine Corporation
上海中船三井造船柴海机有限公司 CSSC-MES Diesel Co., Ltd.
HUDONG HEAVY MACHINERY CO., LTD

CERTIFICATION & AWARD

ISO9001

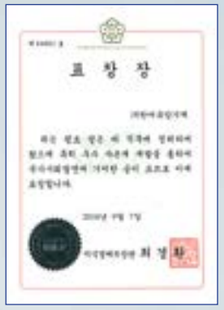
ISO14001

이노비즈인증서

EQ인증서

2012 싱글PPM
대통령 표창 단체상

2011년 싱글 PPM
대통령 표창 개인상



우수자본재개발지식
경제부장관 표창

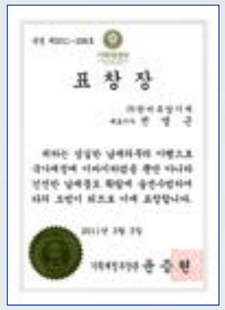
모범납세자
기획재정부장관상

기업부설연구소 인정서

가족친화인증서

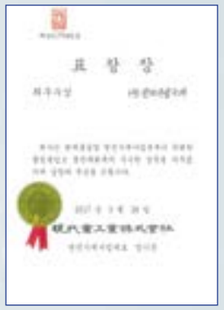
MAN ES FTPA

WIN G&D FTPA



납세자의 날
기획재정부장관상 표창

부산광역시교육감
감사장



HHI품질분임조경진대회
(최우수상)

HHI품질개선우수사례
(장려상)

HSD엔진종합역량평가
(우수상)

HSD엔진동반성장
우수상

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