HYSG Products

The world's best company leading hydraulic industry



Be always happy with our customers

Production of competitive products, Best quality, Supreme service





We have developed our ability for hydraulic engineering, and our customers are satisfied with our faithful and excellent service by effort and experiments.

We pride ourselves on the fact that our company has contributed to making heavy equipment, ship machines and localizing of hydraulic equipment. We not only try to protect our natural environment but also try to be the leading company of hydraulic industry in the world. We are convinced that our company will continue to develop and make progress.

Thank you, best regards





Customers

Company a summary







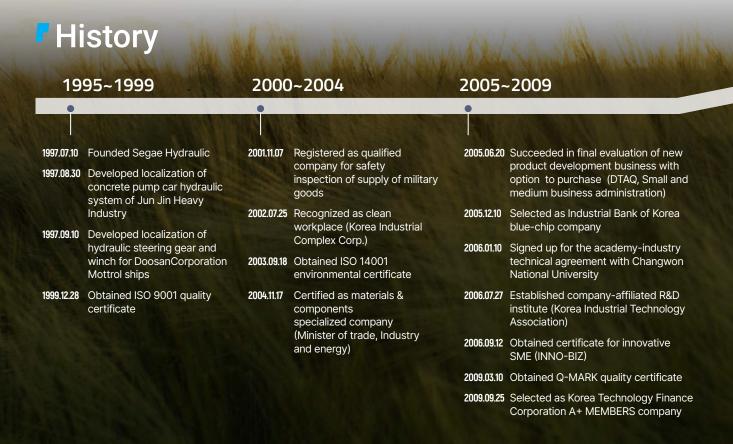
Company	HYSG
The Location	308-14,Gongdan-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, Republic of Korea
Employees	35
Capital	4,000,000 USD
Products	Hydraulic Machinery Manifold, Cartridge valve(Check, Relief, Pilot Check, Flow Control) Counter Balance Valve Rotary Joint Pump

Hydraulic System Hydraulic System, Test Bench, Hydraulic JIG for Machining, Gas Turbine DOCS, Rotary Head Machine

Motor, Cylinder, Exhaust Valve Control Unit etc.

WARTSILA, WINGD(Winter Gas & Diesel) YUASA in Japan, NIKKO Co., Ltd in Japan, CMS(cssc marine service) in China JUN JIN, FLUTEK Kawasaki Ltd. Hanwha Aerospace, HYUNDAI ROTEM Co.,Ltd, SNT Dynamics





HYSG is

always happy with our customers just as we are for the first time.



2010~2015

2011.04.15	Registered as eligible company
	for MAN Energy Solutions

2013.12.09 Obtained certificate for Family-friendly Company

2014.04.20 Supplied test products to NIKKO in Japan

2014.09.19 Obtained certificate for Best Human Resources Develop

2014.12.30 Designated "Excellent desired company to work at in Gyeongnam"

2015.06.01 Designated "Promising Export Firm" (by Small and Medium Business Administration in Gyeongnam)

2015.11.10 Registered as eligible company for WARTSILA

2019.08.20 Registered as CSSC Marine Service (CMS, China) company

2020.10.05 Company name changed to HYSG

2016.03.10 Registered as eligible company for YUASA

2016.03.10 Registered as eligible company for KOBELCO, HITACHI

2016.12.29 Acquired OHSAS 18001 certificate (Lloyd's certification)

2017.06.01 Acquired Export Promising small business

2018.09.01 Registered as eligible company for WIN GD(Winterthur Gas & Diesel)

2019.01.01 Acquisition of youth-friendly small business certificate

2019.08.20 Registered as CSSC Marine Service (CMS, China) company

2020.10.05 Company name changed to HYSG

2022.10.24 Selected as a family company of Kyungnam University

HYSG is

always happy with our customers just as we are for the first time.

Heavy Machinery



Control Valve Ass'y Relief Valve and Check Valve Manifold Ass'y



Hydraulic System

Manufacture of Various Hydraulic Testing Machines Aviation Parts Machining Jig

Gas Turbine DOCS





Ship

Developed various valves for ship engine

Developed localization of various peripheral equipment for winch and steering gear

Established OEM export foundation (technical cooperation with foreign countries)



Defence Industry

Constructed production technology related to defense industry materials

Localization of K-1, K-9 control block

Developed Pump, Motor and Cylinder

Promotion of domestic substitution of ultra-precision imported products

The Heavy Machinery Sector

We have embarked on the domestic development of hydraulic equipment for heavy machinery, and have produced and supplied concrete pump car, excavators, fire engine and cranes on the basis of our rich work experience and know-how in the areas of engineering design, manufacturing, assembly, and inspection. We do our best to provide products with perfect quality and excellent durability, trying to open not only domestic but also global markets.



MAIN 4-WAY BLOCK



Working pressure	35MPa
Rated flow	500l/min
Use	The operation control of main drive cylinder (large capacity)

MAIN MANIFOLD BLOCK



Working pressure	35MPa
Rated flow	350ℓ/min
Use	The operation control of main drive cylinder
	Pressure Rated flow

VALVE 4-WAY BLOCK



pressure	35MPa
Rated flow	120l/min
Use	The operation control of maindrive cylinder (small capacity)

MAIN 4-WAY VALVE



Working pressure	35MPa
Rated flow	350 ℓ /min
Use	The operation control of main drive cylinder

4-WAY VALVE



Working pressure	31.5MPa
Rated flow	150ℓ/min
Use	The direction conversion of hydraulic working oil with high pressure and large capacity

2-WAY VALVE

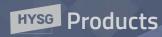


Apply kinds of machines	STA, MOLI, M28, M33, M37, M43, M47, M52, M57, M63
Working pressure	10MPa
Rated flow	40l/min
Use	Oil cooler off, Pipe arrangement protection



We have embarked on the domestic development of hydraulic equipment for heavy machinery, and have produced and supplied concrete pump car, excavators, fire engine and cranes on the basis of our rich work experience and know-how in the areas of engineering design, manufacturing, assembly, and inspection. We do our best to provide products with perfect quality and excellent durability, trying to open not only domestic but also global markets.





CONCRETE PUMP CAR CONTROL VALVE BLOCK





Apply kinds of machines	STA, MOLI, M28, M33, M37, M43, M47, M52, M57, M63
Working pressure	33MPa
Rated flow	120l/min
Use	Cylinder hunting prevention

F LOGIC VALVE



Working pressure	32MPa
Rated flow	120~560ℓ/min (# 16.25.32)
Use	Composed of poppet, bush and retainern



F BLOCK FOR REDUCING VALVE



Apply kinds of machines	MOLI, M33, M37, M43, M47, M52, M57, M63
Working pressure	21MPa
Rated flow	60l/min
Use	Main pump, control pressure,

CHECK VALVE



Apply kinds of machines	STA, MOLI, M28, M33, M37, M43, M47, M52, M57, M63
Working pressure	21MPa
Rated flow	60ℓ/min
Use	Backflow prevention

F SENSING VALVE



Apply kinds of machines	STA, MOLI, M28, M33, M37, M43, M47, M52, M57, M63
Working pressure	35MPa
Rated flow	15l/min
Use	Main cylinder change

DOUBLE RELIEF VALVE



Apply kinds of machines	M28, M43, M47, M52, M57, M63
Working pressure	15MPa
Rated flow	60l/min
Use	Swing extension outrigger cylinder protection

F RELIEF VALVE



Working pressure	35MPa
Rated flow	15~200l/min
Use	Setting working pressure in system

F SHUTTLE VALVE



Working pressure	35MPa
Rated flow	30ℓ/min
Use	Main cylinder logic control



We have embarked on the domestic development of hydraulic equipment for heavy machinery, and have produced and supplied concrete pump car, excavators, fire engine and cranes on the basis of our rich work experience and know-how in the areas of engineering design, manufacturing, assembly, and inspection. We do our best to provide products with perfect quality and excellent durability, trying to open not only domestic but also global markets.



VALVE & OTHER

■ BACK PRESSURE RELIEF VALVE

Use of Specially equipped vehicles



Working pressure	21MPa
Rated flow	30l/min
Use	Control of boom cylinder pressure

PILOT CHECK VALVE

Use of Crane



Working pressure	31.5MPa
Rated flow	60ℓ/min
Use	Cylinder hunting prevention



HIGH PRESSURE RELIEF VALVE

Use of Fire engine



Working pressure	21MPa
Rated flow	200ℓ/min
Use	Control the pressure of water tank

CONSTANT FLOW VALVE

Use of Specially equipped vehicles



Working pressure	31MPa
Rated flow	50{/min
Use	Constantly adjusts the flow rate of the boom cylinder

STOPPER Use of Excavator



Working pressure	35MPa
Use	Excavator travel motor main spool change cushion equipment

LINE CHECK VALVE **Use of Excavator**



Working pressure	31.5MPa
Rated flow	50l/min
Use	Backflow prevention

PILOT CHECK VALVE

Use of Crane

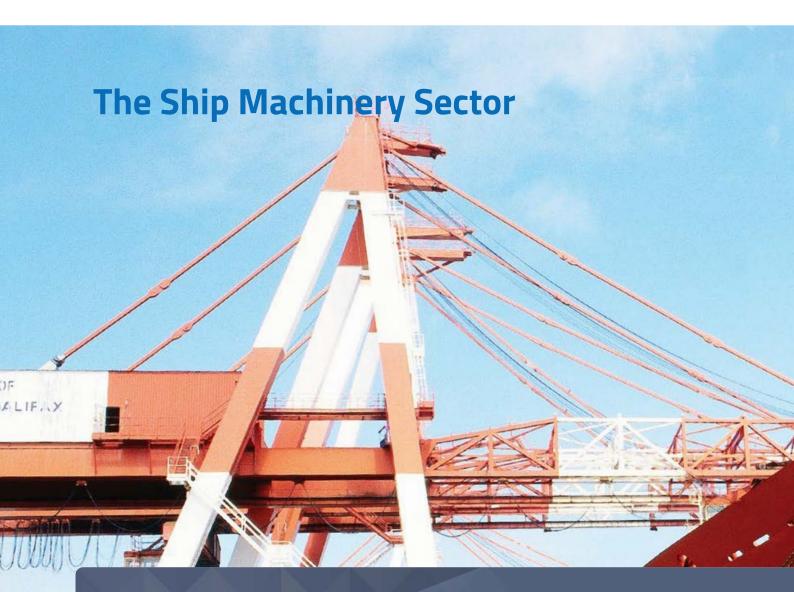


Working pressure	31.5MPa
Rated flow	60ℓ/min
Use	Cylinder hunting prevention

PILOT CHECK VALVE **Use of Specially Equipped Vehicles**



Working pressure	14MPa
Rated flow	10ℓ/min
Use	Pole jack cylinder hunting prevention





HYSG Products

STEERING GEAR FOR A SHIP & WINCH

MANIFOLD ASS'Y

Steering Gear for a ship



Working pressure	35MPa
Rated flow	300ℓ/min
Use	Relief Valve, Solenoid Valve,



REGULATOR

Steering Gear for a ship



Working pressure	2MPa
Rated flow	12l/min
Use	Flow control of pump with variable swash plate for steering gear

CHECK VALVE BLOCK

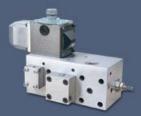
Steering Gear for a ship



Working pressure	31.5MPa
Rated flow	30l/min
Component	Check Valve, Block, Filter

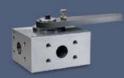


F ISOLATING VALVE BLOCK Steering Gear for a ship



Working pressure	31.5MPa
Rated flow	180l/min
Component	Logic Valve, Solenoid Valve, Filter, Relief Valve

7 3-WAY VALVE BLOCK Winch for a ship



Working pressure	25MPa
Rated flow	500l/min
Use	Directional control for a winch actuator

CHECK VALVE Winch for a ship



Working pressure	0.05~0.45MPa
Rated flow	400~700l/min
Use	Normal direction and reverse direction flow control

F CHECK VALVE ASS'Y Winch for a ship



Working pressure	35MPa
Rated flow	20l/min
Use	Backflow prevention



HYSG Products

FOR SHIPS ENGINE

PRESSURE CONTROL VALVE

Engine for a ship



95~105MPa
9l/min
Excessive pressure control or RT-flex engine fue pump
RT-flex 58, RT-flex 60

PRESSURE CONTROL VALVE

Engine for a ship



Working pressure	95~105MPa
Rated flow 111/min	
Use	Excessive pressure control or RT-flex engine fue pump
Apply kinds of engin	RT-flex 50, RT-flex 58, RT-flex 60, RT-flex 68, RT-flex X82, RT-flex 96



AXIAL PISTON PUMP

Engine for a ship



Displacement	40cc, 71cc/rev
Working pressure	35MPa
Max. speed	2,700rpm
Use	Ship engine driven hydraulic pump

PRECHAMBER

Engine for a ship



Valve Applied	PILOT FUEL INJECTOR VALVE
Use	Injects and combusts the fuel and elivers it to the main combustion chamber

EXHAUST VALVE CONTROL UNIT

Engine for a ship



Working pressure	55MPa
Rated flow	150l/min
Use	Exhaust valve operation control of ship engine
Apply kinds of engine	X35, X52, X62 X72, X82, X92

EXHAUST VALVE CONTROL UNIT

Engine for a ship



Working pressure	45MPa
Rated flow	150l/min
Use	Exhaust valve operation control of ship engine
Apply kinds of engine	RT-flex50, RT-flex58, RT-flex60, RT-flex68, RT-flex X82

EXHAUST VALVE CONTROL UNIT

Engine for a ship

Working pressure	45MPa
Rated flow	180 ℓ /min
Use	Exhaust vlave operation control of ship engine
Apply kinds of engin	RT-flex96





The Defence Industry Sector

We do our best to manufacture and develop various hydraulic goods of mobile equipment for defence industry such as manifold, pump, motor, cylinder and valve.







Working pressure	32.5MPa
Rated flow	22l/min
Use	Linear control and backside cylinder control of a K-1 ARRV(Armored Repair Recovery Vehicle)

CONTROL VALVE



Working pressure	7MPa
Rated flow	228l/min
Use	Hydraulic motor and cylinder control of a 5ton ARRV

F DEPRESSURIZING VALVE



Working pressure	27.6MPa
Rate flow	12ℓ/min
Use	Cylinder-load and speed control of K-1 AVLB

SEQUENCE VALVE



Working pressure	27.6MPa
Rate flow	12l/min
Use	Control of cylinder-load and operational sequence for K-1 AVLB





HYSG Products

MANIFOLD, PUMP, MOTOR CYLINDER, **VALVE**

COUNTER BALANCE VALVE BLOCK K1 AVLB



Working pressure	35MPa
Rate flow	240l/min
Use	Cylinder-load control of a K-1 AVLB (Armored Vehicle Launched Bridge)

HYDRAULIC PISTON MOTOR



Displacement	13.16cc/rev
Max. Speed	4,800rpm
Max. Pressure	15MPa
Use	Angle adjuster of turret through spinning constant speed for turning gear assembly of a self-propelled gun

EMULSIFIER GEAR PUMP UNIT

Advanced detoxification machanism



	Working pressure	0.37MPa
	Rated flow	3.5{/min
1	Use	Constant flow supply for emulsifier of advanced detoxification mechanism

SHUTOFF CAM VALVE

NHK-2 Launcher



Working pressure	21MPa
Rate flow	57ℓ/min
Use	Speed control in accordance with launching pad location

HYDRAULIC GEAR PUMP/MOTOR



Working pressure	7MPa
Rate flow	216ℓ/min
Uses	Speed control in accordance with launching pad location



HYDRAULIC BUFFER

120mm Mortar

Recoil force	5,100kgf
Stroke	250mm
Use	Shock buffering of mortars



F HYDRAULIC DAMPER

120mm Mortar

Recoil force	82kgf
Stroke	20mm
Use	Shock buffering of mortar loading devices



Hydraulic System Engineering Parts

We do our best for engineering service to design, manufacture, install and do test runs on valve, pump, cylinder, test bench, hydraulic element and iron hydraulic system.



KSLV1 MULTI-STAGE CYLINDER

Satellite projectile



Working pressure	38MPa
Stroke	5,500mm
Use	Launcher cylinder for satellite projectile

🕇 Large GAS TURVINE **DOCS** Assembly



Working Force	100 Ton
Gap adjustment range	1.0~3.0 mm
Use	Adjusting and maintaining a constant clearance during Rotor rotation of a large GT

VALVE TEST STAND

Testing device for servo valve

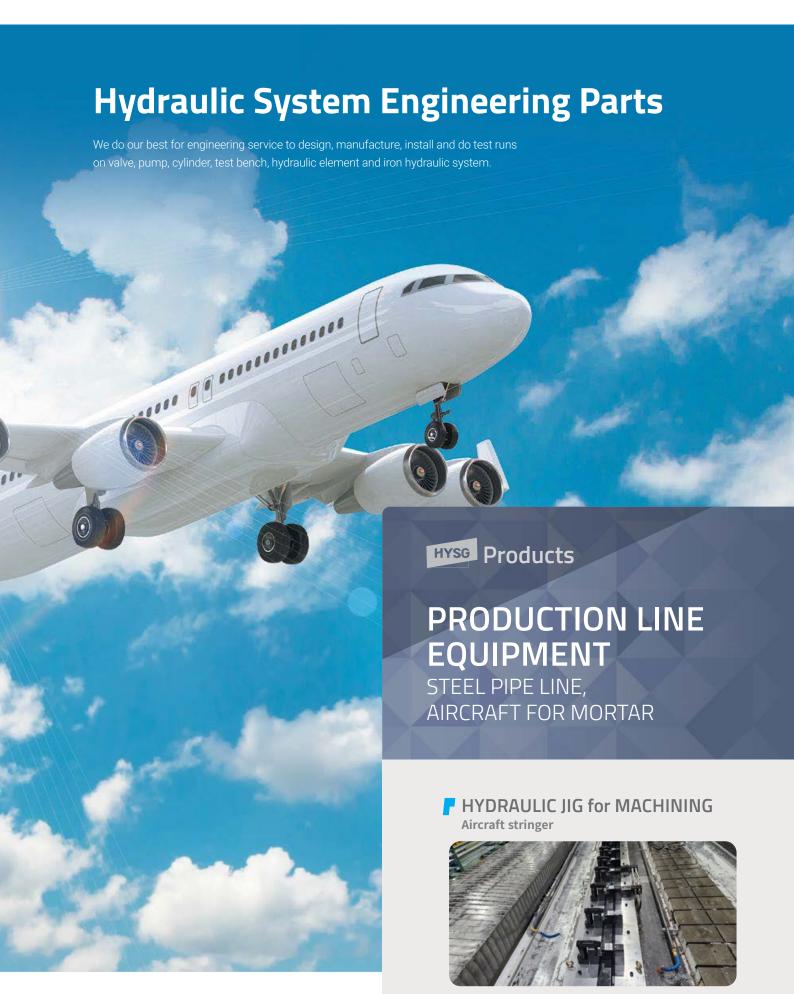


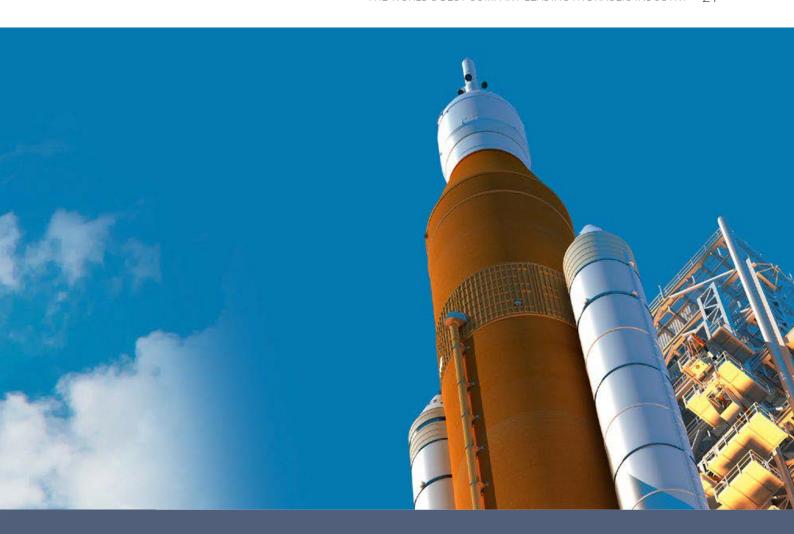
	_	
	Working pressure	31.5MPa
-	Rated flow	120ℓ/min
	Use	MOOG, NIRECO, HITACHI, Servo valve performance and durability test

ROTARY HEAD MACHINE Steel tubing production line facilities



_	
Speed revolution	2,500rpm
Use	RTM65/90/
standard	100/140/250 etc.
Compo-	Non destructive super-
nents	sonic waves current test





FORMING MACHINE

Aircraft stringer

Capacity	0.5~15ton
Ram stroke	350mm
Size	940mm×1,270mm×2,380mm
Use	Aircraft stringer forming machine



TWISTING MACHINE

Aircraft stringer

Twisting capacity	6ton
Ram stroke	±30°
Size	1,000mm×800mm×1,040mm
Use	Aircraft stringer twisting machine



700TON FORMING MACHINE

Aircraft stringer

Capacity	10~700ton
Ram stroke	400mm
Size	2,000mm×2,500mm×3,500mm
Use	Aircraft stringer forming machine



HYDRAULIC BUFFER PERFORMANCE TEST EQUIPMENT 120mm Mortar

Max. weight	600kg
Max. Drop height	3m
Use	Hydraulic buffer performance test

















ACQUISITION & PATENTS OF CERTIFICATION





Certificate of OHSAS 18001



Quality Management System Certificate



Environment Management System Certificate



Certification of Laboratory Attached to Business



Certificate of Innovative SME (INNO-BIZ)



Appointment Letter or Materials & Components Specialized Company



Certificate of Family-friendly Company



Appointment Letter for Best Human Resources Developer



Certification of Patent



Certification of Patent



Certification of Patent



Certification of Patent



Certification of Patent



Certification of Patent



Certificate of Utility Model Registration





Headquarters and Factory

308-14 Gongdan-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, Repulic of Korea **Tel** +82-55-274-2581 \sim 3 **Fax** +82-55-274-2584 \sim 5

Factory #2

5-8, 3 Wanam-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, Repulic of Korea **Tel** +82-55-266-5096

Email segaeh@daum.net **Homepage** www.hysg.co.kr