

HYSG Products

The world's best company leading hydraulic industry

HYDRAULIC SEGYE

HYSG

Be always happy with our customers

Production of competitive products, Best quality, Supreme service



CEO Greetings

Thank you so much for visiting HYSG.
Our company has been established in 1997 and has produced hydraulic components of ships, heavy machines and goods for defence industry.

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

CEO & President. **Dong-Bum Kim**



Company a summary

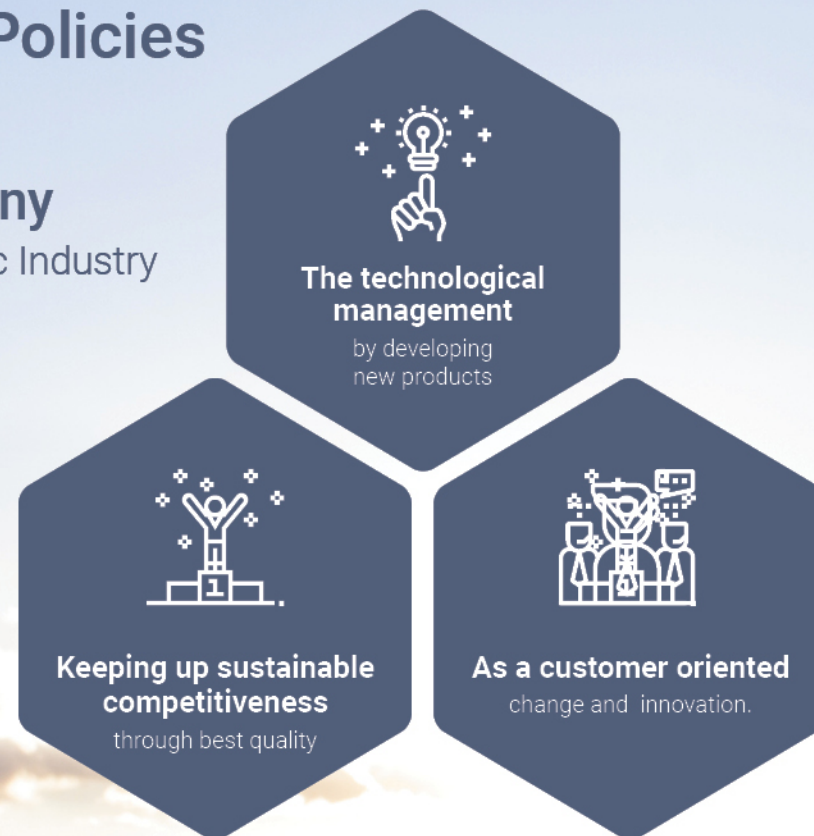


Company	HYSG
The location	308-14, Gongdan-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, Republic of Korea
Employees	35
Capital	2,500,000 USD
Products	Hydraulic machinery Manifold, Cartridge valve(Check, Relief, Pilot check, Flow control), Counter balance valve, Rotary joint, Pump, Motor, Cylinder, Exhaust valve control unit etc. Hydraulic system Hydraulic system, Test bench, Rotary head machine
Customers	JUNJIN HEAVY INDUSTRY Co., Ltd., FLUTEK Kawasaki Ltd., NDT ENGINEERING Co., Ltd., HYUNDAI ROTEM Co., Ltd., S&T DYNAMICS Co., Ltd., Doosan Corporation Mottrol, Hanhwa Defence, DAPA(Defense Acquisition Program Administration), YULKOK LTD., Doosan Heavy Industries & Construction, WARTSILA, YUASA in Japan, NIKKO Co., Ltd. in Japan, WIN GD(Winterthur Gas & Diesel) etc.

Business Policies

The World's Best Company

Leading Hydraulic Industry



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

History

1995~1999

- 1997.07.10** Founded Segae Hydraulic
- 1997.08.30** Developed localization of concrete pump car hydraulic system of Jun Jin Heavy Industry
- 1997.09.10** Developed localization of hydraulic steering gear and winch for Doosan Corporation Mottrol ships
- 1999.12.28** Obtained ISO 9001 quality certificate

2000~2004

- 2001.11.07** Registered as qualified company for safety inspection of supply of military goods
- 2002.07.25** Recognized as clean workplace (Korea Industrial Complex Corp.)
- 2003.09.18** Obtained ISO 14001 environmental certificate
- 2004.11.17** Certified as materials & components specialized company (Minister of trade, Industry and energy)

2005~2009

- 2005.06.20** Succeeded in final evaluation of new product development business with option to purchase (DTAQ, Small and medium business administration)
- 2005.12.10** Selected as Industrial Bank of Korea blue-chip company
- 2006.01.10** Signed up for the academy-industry technical agreement with Changwon National University
- 2006.07.27** Established company-affiliated R&D institute (Korea Industrial Technology Association)
- 2006.09.12** Obtained certificate for innovative SME (INNO-BIZ)
- 2009.03.10** Obtained Q-MARK quality certificate
- 2009.09.25** Selected as Korea Technology Finance Corporation A+ MEMBERS company

2010~Present

- 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
- 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

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Heavy Machinery



Control Valve Ass'y
Various Check Valve
Manifold Ass'y



Hydraulic System

Participated in the project for
rationalization of
steel manufacturing facilities
Manufactured cutting-edge
hydraulic tester
Established factory and production
automation facilities

Business Area



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 Defense industry materials, Pump, Motor, Cylinder
Promotion for the replacement of high level and
supremely precise imported goods with domestic goods

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.

HYSG Products

CONCRETE PUMP CAR CONTROL VALVE BLOCK



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

VALVE 4-WAY BLOCK



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

MAIN 4-WAY VALVE



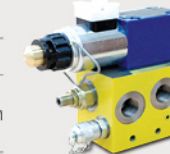
Working pressure	35MPa
Rated flow	350ℓ/min
Use	The operation control of main drive cylinder

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

The Heavy Machinery Sector

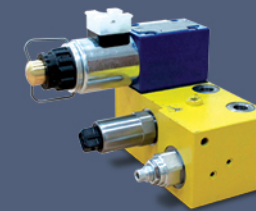
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HYSG Products

CONCRETE PUMP CAR CONTROL VALVE BLOCK

BLOCK FOR REDUCING VALVE



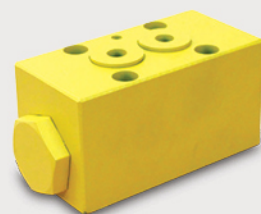
Apply kinds of machines	MOLI, M33, M37, M43, M47, M52, M57, M63
Working pressure	21MPa
Rated flow	60ℓ/min
Use	Main pump, control pressure, Rated flow control

CHECK VALVE



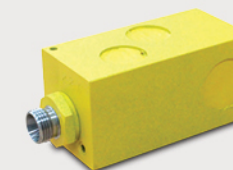
Apply kinds of machines	STA, MOLI, M28, M33, M37, M43, M47, M52, M57, M63
Working pressure	21MPa
Rated flow	60ℓ/min
Use	Backflow prevention

OUTRIGGER CHECK VALVE



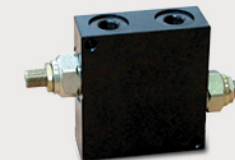
Apply kinds of machines	STA, MOLI, M28, M33, M37, M43, M47, M52, M57, M63
Working pressure	33MPa
Rated flow	120ℓ/min
Use	Cylinder hunting prevention

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 outtrigger cylinder protection

LOGIC VALVE



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

RELIEF VALVE



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

SHUTTLE VALVE



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

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HYSG Products

VALVE & OTHER

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	50l/min
Use	Constantly adjusts the flow rate of the boom cylinder

BACK PRESSURE RELIEF VALVE

Use of Specially equipped vehicles



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

STOPPER

Use of Excavator



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

LINE CHECK VALVE

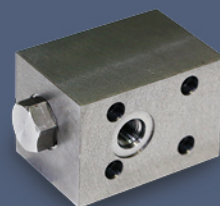
Use of Excavator



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

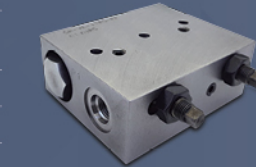
Use of Crane



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

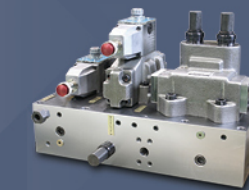
The Ship Machinery Sector

Our main ship components (manifold ass'y for steering gears, control valve for winch and exhaust valve for engine) are homemade and are supplied to domestic and foreign shipbuilding industry.

HYSG Products

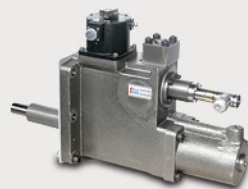
STEERING GEAR FOR A SHIP & WINCH

MANIFOLD ASS'Y Steering Gear for a ship



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

ISOLATING VALVE BLOCK Steering Gear for a ship



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

OIL BLOCK VALVE Steering Gear for a ship



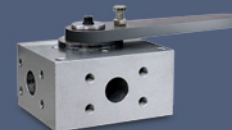
Working pressure	24MPa
Rated flow	100~500ℓ/min
Use	The ship machinery steering gear move control

ROTARY PUMP Steering Gear for a ship



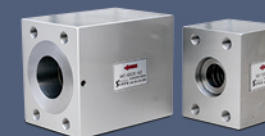
Working pressure	1MPa
Rated flow	180ℓ/min
Use	Manual emergency gear pump

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

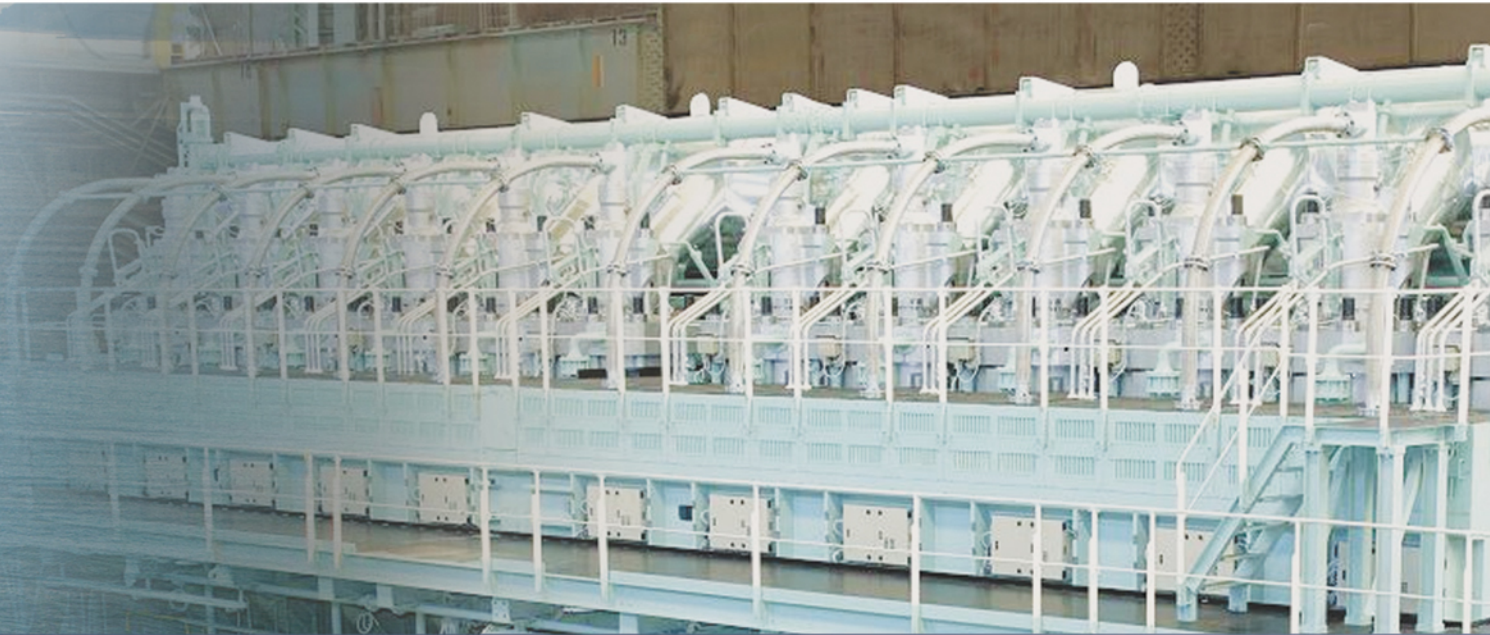
CHECK VALVE ASS'Y Winch for a ship



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

The Ship Machinery Sector

Our main ship components (manifold ass'y for steering gears, control valve for winch and exhaust valve for engine) are homemade and are supplied to domestic and foreign shipbuilding industry.



HYSG Products

FOR SHIPS ENGINE

AXIAL PISTON PUMP

Engine for a ship



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

PRESSURE CONTROL VALVE

Engine for a ship



Working pressure	95~105MPa
Rated flow	9ℓ/min
Use	Excessive pressure control or RT-flex engine fue pump
Apply kinds of engine	RT-flex 58, RT-flex 60

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

PRESSURE CONTROL VALVE

Engine for a ship



Working pressure	95~105MPa
Rated flow	11ℓ/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

EXHAUST VALVE CONTROL UNIT

Engine for a ship



Working pressure	45MPa
Rated flow	180ℓ/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.

HYSG Products

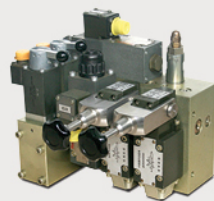
MANIFOLD, PUMP, MOTOR CYLINDER, VALVE

COUNTER BALANCE VALVE BLOCK K1 AVLB



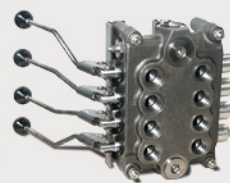
Working pressure	35MPa
Rate flow	240ℓ/min
Use	Cylinder-load control of a K-1 AVLB (Armored Vehicle Launched Bridge)

CONTROL BLOCK OF A CAR BODY/ EMERGENCY PUMP K1 ARRV



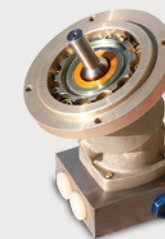
Working pressure	32.5MPa
Rated flow	22ℓ/min
Use	Linear control and backside cylinder control of a K-1 ARRV(Armored Repair Recovery Vehicle)

CONTROL VALVE K712



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

HYDRAULIC PISTON MOTOR K55



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 mechanism



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

DEPRESSURIZING VALVE K1 AVLB



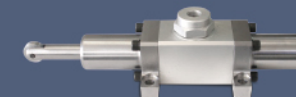
Working pressure	27.6MPa
Rate flow	12ℓ/min
Use	Cylinder-load and speed control of K-1 AVLB

SEQUENCE VALVE K1 AVLB



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

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 K712



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

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.

HYSG Products



HYDRAULIC BUFFER & DAMPER

HYDRAULIC BUFFER 120mm Mortar

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



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.

HYSG Products



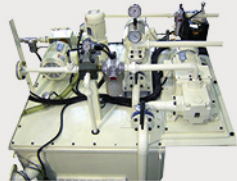
HYDRAULIC DEVICE SATELLITE PROJECTILE, TESTING DEVICE

KSLV1 MULTI-STAGE CYLINDER Satellite projectile



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

POWER UNIT ASS'Y Lubricant supply equipment of turbine bearing



Working pressure	38MPa
Stroke	5,500mm
Use	Constant flow and constant temperature lubrication of dynamo turbine bearing

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



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.



HYSG Products

PRODUCTION LINE EQUIPMENT

STEEL PIPE LINE,
AIRCRAFT FOR MORTAR

FORMING MACHINE

Aircraft stringer

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



TWISTING MACHINE

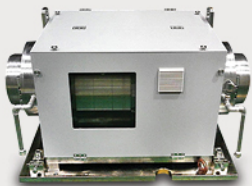
Aircraft stringer

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



ROTARY HEAD MACHINE

Steel tubing production line facilities



Speed revolution	2,500rpm
Use standard	RTM65/90/100/140/250 etc.
Use	Non destructive supersonic waves current test

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



TEST EQUIPMENTS



Piston Pump Performance Testing Device



Complex Operating Machine



ACQUISITION OF CERTIFICATION



Certificate of OHSAS 18001



Quality Management System Certificate



Environment Management System Certificate



Certification of Laboratory Attached to Business



Certification of Patent



Certification of Patent



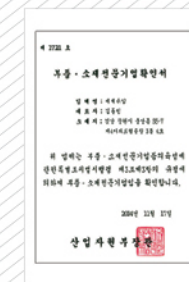
Certification of Patent



Certificate of Utility Model Registration



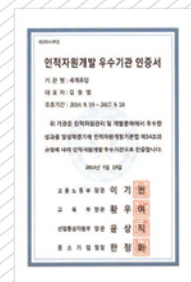
Certificate of Innovative SME (INNO-BIZ)



Appointment Letter or Materials & Components Specialized Company



Certificate of Family-friendly Company



Appointment Letter for Best Human Resources Developer



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Scan QR codes on your smartphone.

HYDRAULIC SEGYE

HYSG

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