SEGAE HYDRAULIC Products

The world's best company leading hydraulic industry

Best Quality SEGAE HYDRAULIC

Be always happy with our customers

Production of competitive products, Best quality, Supreme service



CEO Greetings

Thank you so much for visiting SEGAE hydraulic. 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.

Products

Thank you, best regards

CEO & President. Dong-Bum Kim

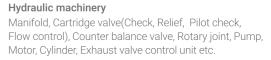


Company a summary



Company	SEGAE HYDRAULIC
The location	308-14,Gongdan-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, Republic of Korea
Employees	35
Capital	2,500,000 USD





Hydraulic system

Hydraulic system, Test bench, Rotary head machine



JUNJIN HEAVY INDUSTRY Co., Ltd., FLUTEK Kawasaki Ltd., Customers 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.

SEGAE HYDRAULIC COMPANY

THE WORLD'S BEST COMPANY LEADING HYDRAULIC INDUSTRY 05

Business Policies

The World's Best Company

Leading Hydraulic Industry



new products



Keeping up sustainable competitiveness

through best quality



As a customer oriented change and innovation.

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 DoosanCorporation 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)

SEGAE HYDRAULIC is

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



2005~2009

2010~Present

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

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

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 Japan2014.09.19 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 YUASA2016.03.10 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)

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Heavy Machinery



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



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.



MAIN 4-WAY BLOCK



pressure	35MPa
Rated flow	500l/min
Use	The operation control of ma

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 maindrive cylinder

MAIN 4-WAY VALVE



	Working pressure	35MPa
j	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



6	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 WORLD'S BEST COMPANY LEADING HYDRAULIC INDUSTRY 09



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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

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
Hen	Bookflow provention

P 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

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

P 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

LOGIC VALVE



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

RELIEF VALVE

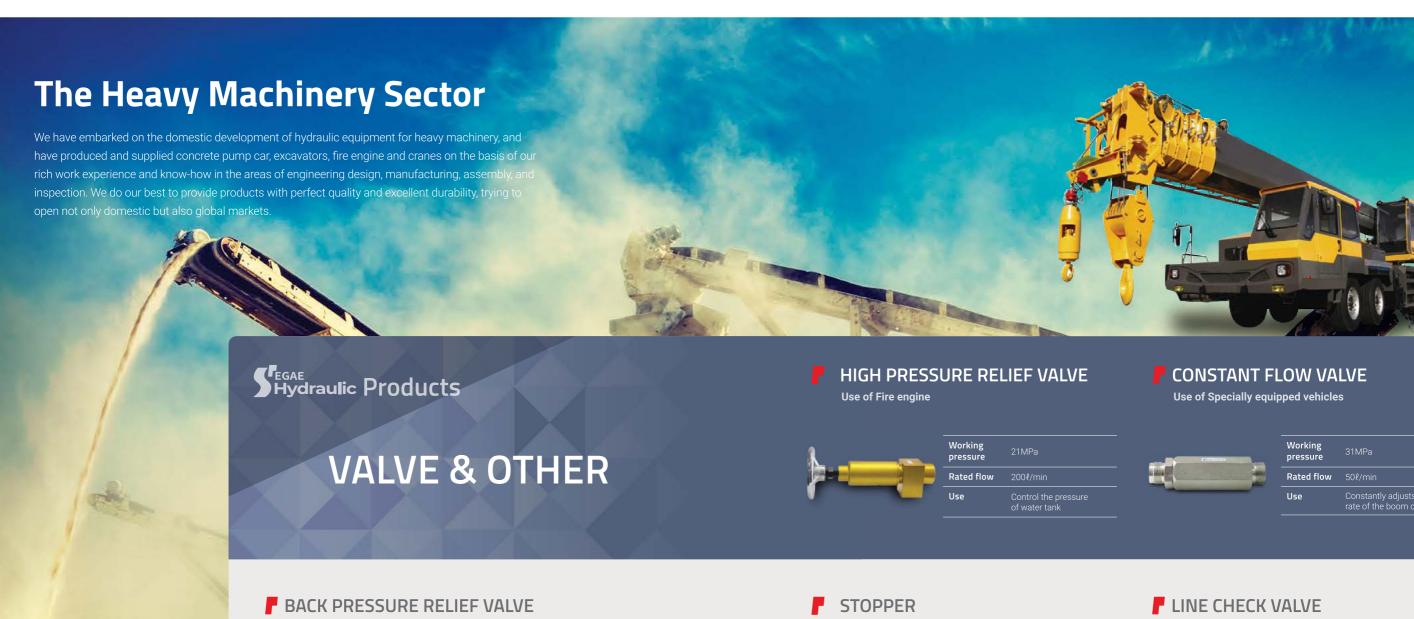


Working pressure	35MPa
Rated flow	15~200ℓ/min
Use	Setting working pressure in system

SHUTTLE VALVE



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



Use of Specially equipped vehicles



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

Use of Excavator



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

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	N
Rated flow	10ℓ/min	/
Use	Pole jack cylinder hunting prevention	



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.





Stegae Hydraulic Products

STEERING GEAR FOR A SHIP & WINCH

MANIFOLD ASS'Y

Steering Gear for a ship



	working pressure	35МРа
	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
Use	Check Valve, Block, Filter

■ ISOLATING VALVE BLOCK

Steering Gear for a ship



Working pressure	31.5MPa
Rated flow	180l/min
Use	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

7 3-WAY VALVE BLOCK

Winch for a ship



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

F 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



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.



FOR SHIPS ENGINE

P AXIAL PISTON PUMP

Engine for a ship



Displacement	71cc/rev	
Working pressure	35MPa	- 77
Max. speed	2,700rpm	
Use	Ship engine driven hydraulic pump	14

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

F 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.



Stegae Hydraulic Products

MANIFOLD, PUMP, MOTOR CYLINDER, VALVE

COUNTER BALANCE VALVE BLOCK



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

CONTROL BLOCK OF A CAR BODY/ EMERGENCY PUMP K1 ARV



Working pressure 32.5MPa

Rated flow 22l/min

Use Linear control and backside cylinder control of a K-1 ARRV(Armored Repai

CONTROL VALVE

K712



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

► HYDRAULIC PISTON MOTOR

(55



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

F 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

DEPRESSURIZING VALVE K1 AVLB



Working pressure 27.6MPa

Rate flow 12ℓ/min

Components Cylinder-load and speed control of K-1 AVI B

SEQUENCE VALVE K1 AVLB



Working pressure 27.6MPa

Rate flow 12ℓ/min

Components Control of cylinder-load and operational sequence for K-1 AVLB

SHUTOFF CAM VALVE

NHK-2 Launcher



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

HYDRAULIC GEAR PUMP/MOTOR



Working pressure	7MPa
Rate flow	216{/min
Components	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.



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.



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



pressure	JOIVII d
Stroke	5,500mm
Use	Constant flow and constant temperature lubrication of dynamo turbine bearing



Testing device for servo valve

Working pressure 31.5MPa

Rated flow 120ℓ/min

Use MOOG, NIRECO, HITACHI, Servo valve performance and durability test



THE WORLD'S BEST COMPANY LEADING HYDRAULIC INDUSTRY 21 SEGAE HYDRAULIC PRODUCT



EQUIPMENT

STEEL PIPE LINE, AIRCRAFT FOR MORTAR

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



Twisting capacity	6ton
Ram stroke	±30°
Size	1,000mm × 800mm × 1,040h
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.
Components	Non destructive supersonic waves current test

VALVE STAND

Steel plant

Working pressure	31.5MPa
Rated flow	100~1,500ℓ/min
Components	100~1,500ℓ/min



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





ACQUISITION OF CERTIFICATION









Dukin

Environment Management Management System Certificate System Certificate

5m 0 0 - 55 9d

Certification of

Utility Model

Registration



Certification of Laboratory Attached to Business



Certification of Patent



Certification of Patent





Certificate of Innovative SME (INNO-BIZ)













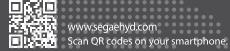
Appointment Letter or Materials & Components Specialized Company



Appointment Certificate of Letter for KIBO A+ Family-friendly MEMBERS Company



Appointment Letter for Best Human Resources Developer





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