SG servo

So Good Servo Technology Company



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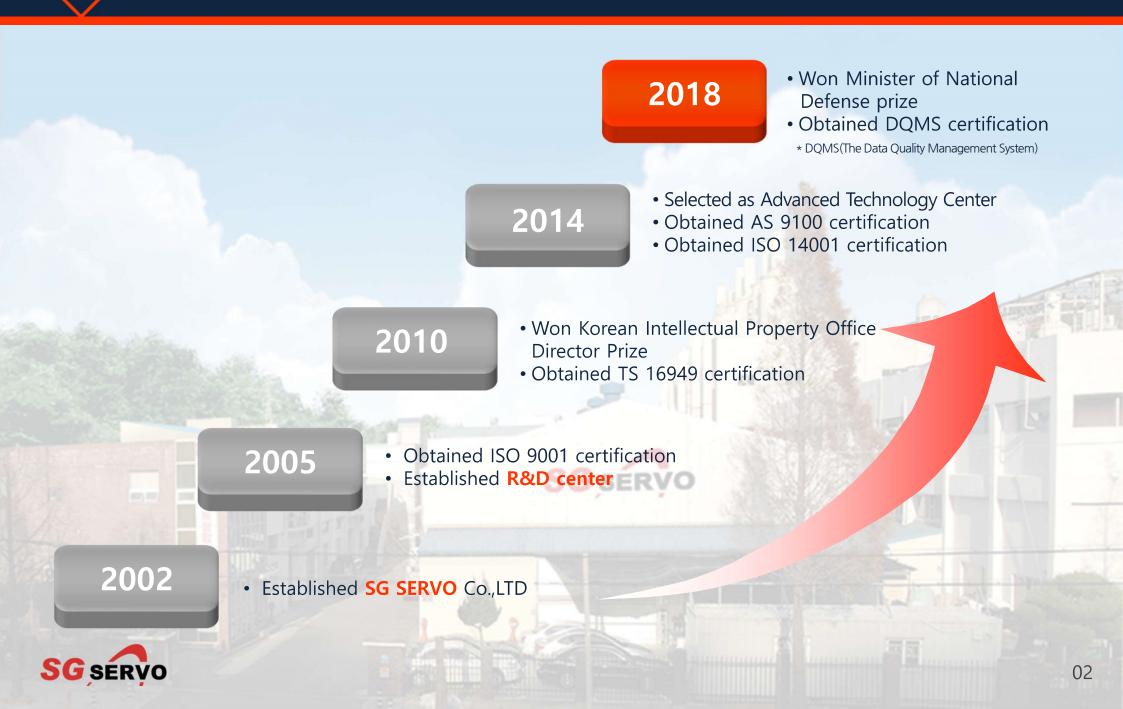
Company Overview | Business Overview



Company Name	SG SERVO Co., Ltd.	CEO	Kim Go-do, Lee Hyeon-Cheol
Location	135, Charyongdanji-ro, Uichang-gu, Changwon-si,	Date of Foundation	January 19, 2002
LOCATION	Gyeongsangnam-do, South Korea	Employee	56
Size	Land : 3,089 m ² (33,250 ft ²) Floor space : 2,737 m ² (29,460 ft ²) Total Sales(\$)		7.25 million
Business Areas	 Defense Application Military Vehicle, Submarine, Unmanned Aerial Vehicle Hydraulic Pumps, Hydraulic Servo and Proportional valves, Hydraulic Cylinders Decelerators, Manifold Assy', Hydraulic and Electric Actuator 		
URL	Homepage: http://www.sgservo.co.kr		
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Company Overview | Company History



Company Overview | Major Accounts



Company Overview | Organization Chart





SG SERVO

SG

Short for 'SO GOOD', it exemplifies our will to make products with functions and quality that satisfy customers.

SERVO

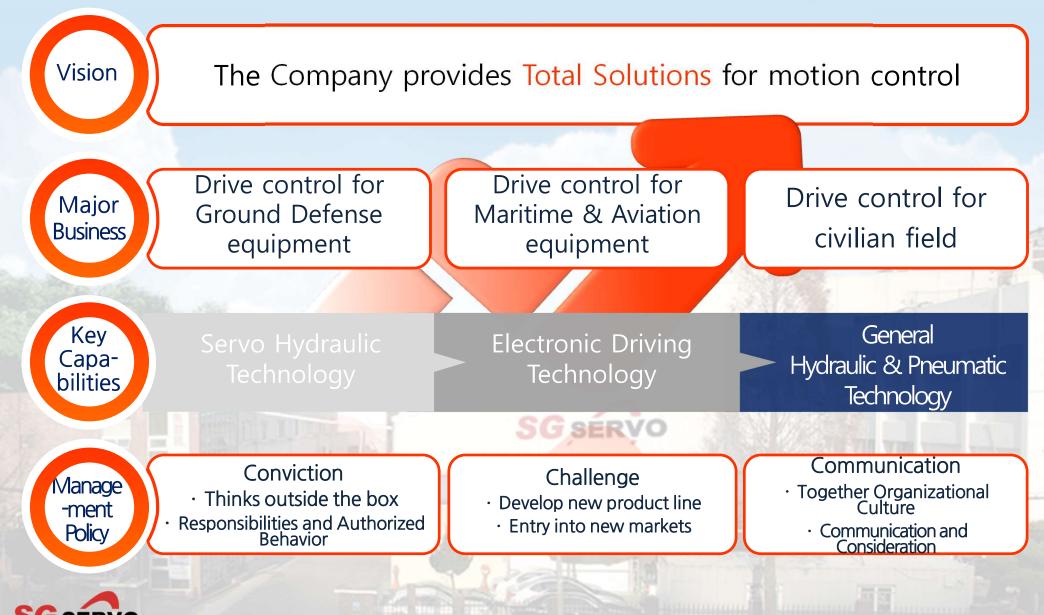
SERVO shows our promise to serve customers and employees with spirit of Servant and our aim to become the world's best servo technology company.

Red Circle

Expresses the fluttering feeling of movement with the passion of youth, stirring the blood and a progressive spirit









General hydraulic & pneumatic



02

Gear pump

Products

 Application: Transmission of military trucks
 Feature & Function : Gerotor gear type, Mission oil circulation



Control valve

 Application: Transmissions of military vehicle
 Feature & Function : Hyd' power control by lever operation





Gear pump

 Application : Transmission of military vehicle
 Feature & Function : Internal / External gear type pump



Module valve assembly

Application: Military vehicle, Industry hydraulic power pack
Feature & Function : Sandwich type module Directional, Flow and pressure control valve



Manifold / wheel valve

 Application : Military vehicle
 Feature & Function : Central Tire Inflation System



Relay valve

 Application: Transmissions of military vehicle
 Feature & Function : Built-in multi Spool valves, Hyd' power deliver to steering, Regulating & control valve

Regulating valve

 Application: Transmissions of military vehicle
 Feature & Function: Built-in multi Spool valves, Pressure control in speed change

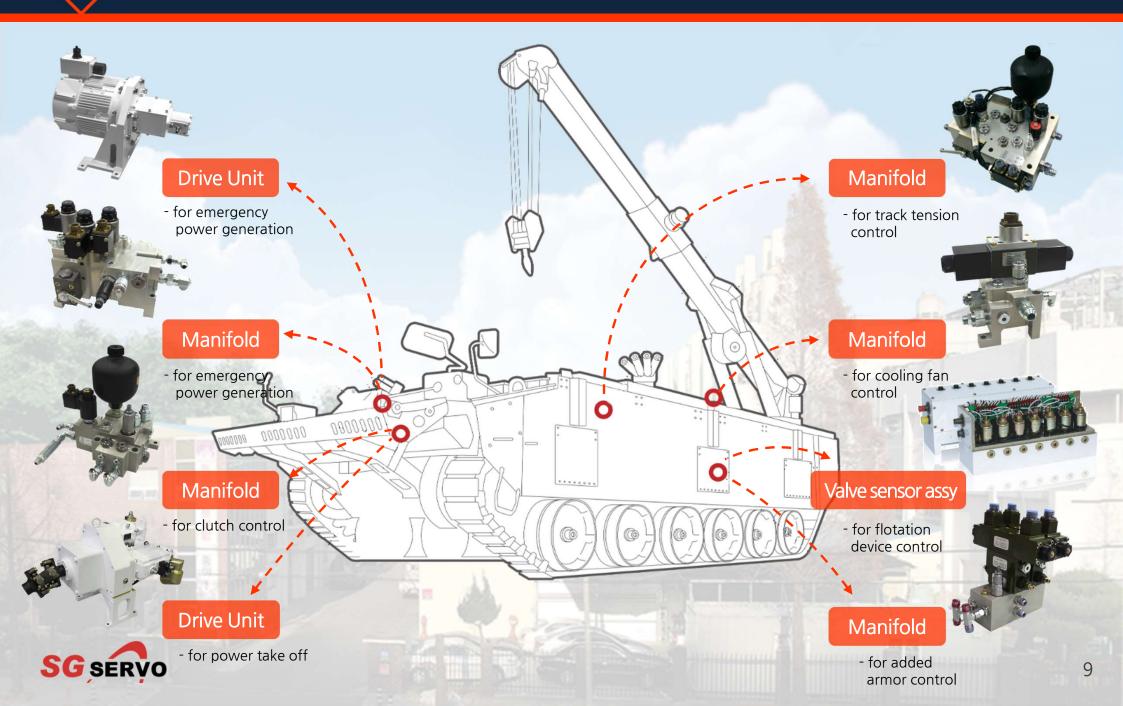
Steering valve

 Application: Transmissions of military vehicle
 Feature & Function: Built-in multi Spool valves, Track direction control

General hydraulic & pneumatic

02

Products





Products





General hydraulic & pneumatic







02

Proportional valve

Application: Ship gun
Feature & Function: Spring balance type, Position control of ship gun



Servo valve's body

Application : Military vehicle, Self propelled howitzer
Feature & Function : Traverse/ elevation/ suspension control







Pitch control valves

- Application: Propeller pitch control device of ship
- Feature & Function: Spool valve type, Mechanical servo, Propeller pitch control



Servo valve's Spool

- Application : Military vehicle, Self propelled howitzer
 Feature & Function : Traverse/
- elevation/ suspension control

Servo actuator

Application : Military Fighter

Servo valve's Sleeve

Application : Military vehicle, Self propelled howitzer

 Feature & Function : Traverse/ elevation/ suspension control



Servo hydraulic





SG SERVO

Products

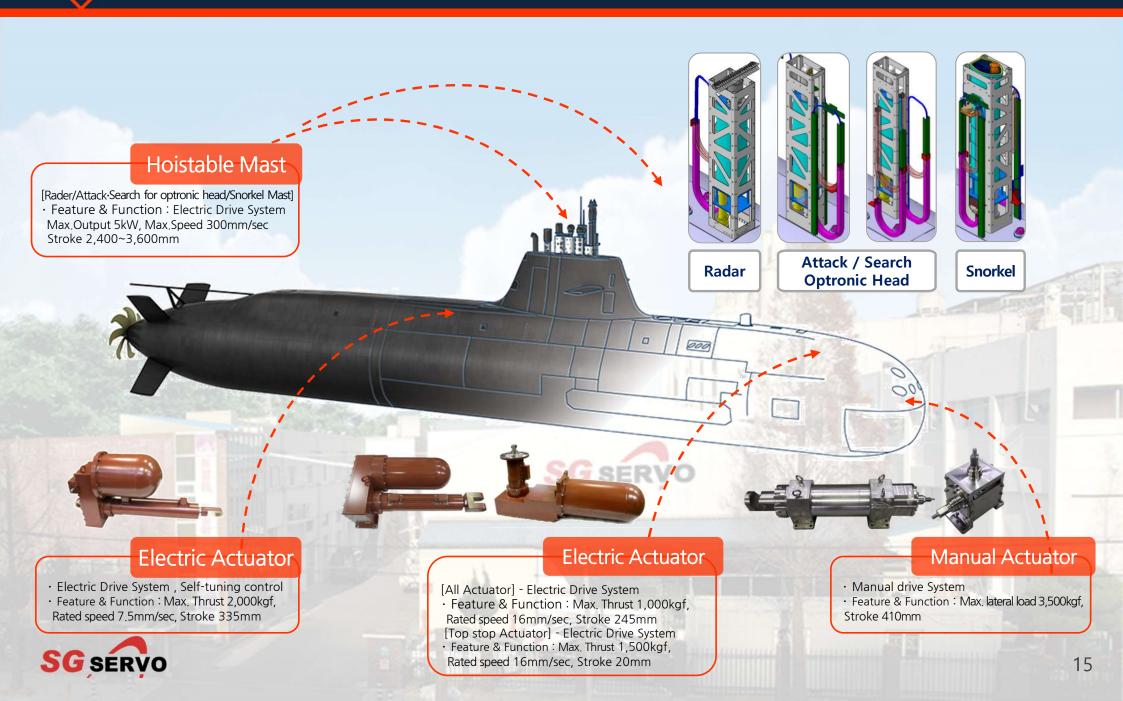
Electric driving





02

Products





02

Submarine



02

	Year	Product	Remark		
	2002	Ball Valve 28Sets(40A ~ 200A)	Park Wi-ham		
	2003	Ball Valve 53Sets (32A ~ 200A) Flap Valve 46Sets (50A ~ 125A)	Choi Wireless		
	2004	Ball Valve 53Sets (32A ~ 200A)	Jeong Woonham		
	2006	Ball Valve 53Sets (32A ~ 200A) Flap Valve 46Sets (50A ~ 125A)	Yi Sun-Shin		
	2016~2020	Ball Valve 390Sets (32A ~ 200A) Flap Valve 130Sets (50A ~ 250A)	Class 214 (Work Son Won, Stopped, Jung Geun Ahn)		
	2017	DIN Valve Sounding Ball Cock, Auto Vent Valve Sight Glass valve, Globe valve, globe check valve angle valve, angle check valve, ball valve	Hyundai Heavy Industries Special Ship Division 500-ton class P141/P142		
	2020	Delivered 18 kinds of submarine valves to Taiwan			
S	SG SERVO 17				

Production Facilities



Facilities

Facility name	Model / Maker	EA
		ĽA
H-MCT	KH-63G / WIA, Etc.	4
V-MCT	VX500,50 / WIA, Etc.	4
CNC	PUMA-280 / Doosaninfracore, Etc.	5
Universal milling Machine	TK-VS5N / TAKEDA	1.
Honing machine	CVH-035 / Cleantec, Etc.	2
Wrapping machine	KE-610 / Ibche corporation, Etc.	2
Vertical boring turning lathe	OKUMA 3VR / OKUMA	1
Air compressor	GSS11 / Airplus, Etc.	4
Ultrasonic washer	UIL-40040H / UIL Ultrasonic	1
Laser marking machine	F9020 / MACSA	1
	V-MCT CNC Universal milling Machine Honing machine Wrapping machine Vertical boring turning lathe Air compressor Ultrasonic washer Laser marking	V-MCTVX500,50 / WIA, Etc.CNCPUMA-280 / Doosaninfracore, Etc.Universal milling MachineTK-VS5N / TAKEDAHoning machineCVH-03S / Cleantec, Etc.Wrapping machineKE-610 / Ibche corporation, Etc.Vertical boring turning latheOKUMA 3VR / OKUMAAir compressorGSS11 / Airplus, Etc.Ultrasonic washerUIL-40040H / UIL UltrasonicLaser markingE9020 / MACSA



Test Facilities



Facilities

No.	Facility name	Spec. / Maker	EA
1	Valve Test equipment	315bar, 130 l/min / Perfect	1
2	Valve Test equipment	210bar, 12Lpm / Perfect	1
3	Valve Test equipment	5000psi, 80Lpm / Perfect	1
4	Servo valve Test equipment	350bar,120Lpm / STI	1
5	Pump/Valve Test equipment	3~200kg/cm², 10~400Lpm 4600rpm / Perfect	1
6	PUMP Test equipment	JMP Test equipment Max.400bar, Max.250Lpm / STI	
7	PUMP Test equipment	450LT, 2450rpm / Perfect	1
8	Decelerator Test equipment	1300N/m, 600rpm / Estech	1
9	PTO Test equipment	1180rpm, 360rpm / Perfect	1
10	Sensor Test equipment	0~0.4Mpa / Perfect	1
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03 Facilities



No.	Facility name	Spec. / Maker	EA
11	Freewheel Test equipment	1.1kg/cm , 180~300rpm / SG SERVO	1
12	Quick Coupling Test equipment	70bar, 70Lpm 15bar, 800Lpm / Perfect	1
13	* HSU valve Test equipment	210bar, 60Lpm 50bar, 100Lpm 700bar, 111Lpm / Perfect	
14	Manifold / wheel valve Test equipment	10kg/cm [*] / COMO	1
15	Constant climatic testing chambers	-50℃~150℃, 30~98%RH / NewZone Tech, Etc.	2

SG SERVO

* Hydrostatic Steering Unit



Inspection Facilities



Facilities

Roundness measuring machine



No.	Facility name	Spec. / Maker	EA
1	3D measuring machine	500x600x400 / ZEISS	1
2	2D measuring machine	Vertical 3, 0~600mm / TRIMOS	2
3	Surface Tester	CD 120 / Mahr	1
4	Fluid Control Unit	FCU2110-4 V3.31 / HYDAC	
5	Illuminometer	SJ301 / MITUTOYO	1
6	Hardness meter	DTR-200N, 150kg / Daekyung tech, Etc.	2
7	Roundness measuring machine	0.01µm/kosaka	1
8	Micro MeterSERVO	0~25 / MITUTOYO	29
9	Gage	0~600 / MITUTOYO, Etc.	133
10	Vernier Caliper	0~300, 0~1000 / MITUTOYO	7
11	Tension and compression tester	SY10800-50 / SHIN YOUNG	1
			2



SG SÉR

Certificates and Patents





Hydraulic Rotary Actuator Hydraulic Rotary Actuator

Piston Pump

Piston Pump







Certificates and Patents

Quick Coupling Breakaway Coupling Conveyor Ball Bearings Servo Actuator 특허증 특허증 CERTIFICATE OF PATENT CERTIFICATE OF PATENT 증 허 증 **Ö** 제 10-1757575 호 특허 특허 제 10-1264905 호 FICATE OF PATEN 특 허 제 10-0660773 호 휴량분km materier 제 2000-0002126 # 제 10-2016-0003262 호 제 10-2011-0022981 호 IPATENT NUMBER (PATENT NUMBER) 유분·현 (1991) 2001년 01월 69년 2016년 01월 11일 출원일 Filme Date 들위일 2011년 03월 15일 <u>동 북 명</u> 2000년 12년 18년 2007 Billion Date responses 200674 1149 2028 2017년 07월 06일 등록일 2013년 05월 09일 -발명의명철(ITILE OF THE AMENTICN) 서보믹주에이터의 오버슈트 발지구로 반생의명칭 crinie OF THE INVENTIO 볼트랜스피 잠치 발명의 위칭 TH 발명의 명칭 Title of the Inventio 브레이크어웨이 커플링 퀵 커플링장치 특히퀸자 awarantes 예스지셔보(주)(194211-0******) 하여편자 pwrentee) 에스지시보(주)(194211-0******) EAGIN AND 등록사항란에 기재 -정난 광원시 관용동 57-6 정납 창원시 관용동 57-6 등록사항란에 기재 응룩사항란에 기재 발명자 Inventi 반명자 swearces 등록사람만에 기계 방명자 investore 등록사항란에 기계 등록사항란에 기재 위의 발명은 「특허법」에 따라 특허등록원부에 등록되었음을 증명합니다. 위의 발명은 「특허법」에 따라 특허등록원부에 등록되었음을 증명합니다. This is to certify that, in accordance with the Patent Act, a patent for the invention 위의 발명은「특허법」에 의하여 특허등록원부에 등록 위의 발명은 「특허법」에 의하여 특허등록원부에 등록 has been registered at the Korean Intellectual Property Office. This is to certify that, in accordance with the Patent Act, a patent for the invention 되었음을 증명합니다. 되었음을 증명합니다. has been registered at the Korean Intellectual Property Office. (THS IS TO CERTIFY THAT THE PATENT IS REGISTERED ON THE REGISTER OF THE KOREAN (THIS IS TO CERTIFY THAT THE PATENT IS REGISTERED ON THE REGISTER OF THE KOREAN INTELECTUAL PROPERTY OFFICE.) INTELLECTUAL PROPERTY OFFICE 1 2006년 12월 18일 2017년 07월 06일 2006\4 114 289 2017년 05월 16일 특허청장 특허청장 KOREAN INTELLECTUAL PROPERTY O 틐 허 청 G 특허청 특 허 청 KOREAN INTELLECTUAL PROPERTY OFFICE 특허청 Korean Intellectu Property Office Korean Intellectual Property Office





"Innovation of Motion Control, SG SERVO"



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Thank you

