

**Kyung-il GMC Co.,LTD**

**(주)경 일 지 엠 씨**

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# 1-1. General status of company



Company Name

KYUNGIL GMC CO., LTD.

CEO

Jang Myung-Su

History

Established on June 29, 2012 (Established on May 31, 1991)

Turnover

13 billion KRW in 2014

Main Business

1. Hydraulic Parts 2. Machinery Parts 3. Defense Parts

New Business

1. Pump development 2. Valve development  
3. Development of personal weapon sights for  
the Ministry of National Defense

Results

1. Hitachi Pump development  
2. R.C.V / PEDAL / DOZER VALVE development

# 1-2(1). Company History



**1991**

Founded KYUNGIL METAL (165, Gamjeon-dong, Sasang-gu, Busan).

**1992**

Produced hydraulic and automotive parts.

**1997**

Produced hydraulic cylinders and hydraulic pump parts (AR16, AR22, and AR37).

**1998**

Registered as a primary partner of Dongmyeong Heavy Industry Co., Ltd. (produced TM40VC, TM07VC, and TSR25 Relief Valves).

**2002**

Acquired ISO 9001 certification.

**2004**

Selected as a company specialized in parts and materials (Ministry of Trade, Industry, and Energy – Registration No. 1428).  
Developed swash plate cam with the Korea Institute of Machinery and Materials. (R&D) – Supervised by the Ministry of Trade, Industry and Energy (2004.09.01~2005.08.31).

# 1-2(2). Company History



**2005**

Acquired ISO 14001 certification for environmental management system (integrated operation of quality and environment).  
Awarded machine tools project from Doosan Infracore (PM240, L220M Tool Post Ass'y development and supply).

**2006**

Selected as and cited as excellent primary partner by Dongmyeong Heavy Industry Co., Ltd.  
Exported flanges to Eurobend, a primary partner of Volvo in Sweden.  
Established second plant and expanded manufacturing facilities.  
Selected as a promising SME (Woori Bank No. 2006-47).  
Selected as a management innovation-type SME (Main Biz) (Small & Medium Business Administration)

**2007**

Selected as a technological innovation-type SME (INNO-Biz) (Ministry of Trade, Industry and Energy No. 7021-1045).

**2008**

Certified to establish a team specialize R&D (Korea Industrial Technology Association No. 20087263).  
Selected as a venture company (Korea Technology Finance Corporation No. 2009201219).  
Selected as and cited as excellent primary partner by Dongmyeong Heavy Industry Co., Ltd.  
Selected as a promising export SME (Small & Medium Business Administration No. 08 Busan, Ulsan No. 39).

# 1-2(3). Company History



**2010**

Received Excellent Small & Medium Business Entrepreneur Award (Administrator of Busan, Ulsan Small & Medium Business Administration No.1093).  
Selected for the Small & Medium Enterprises (SMEs) Technology Innovation and Development Program (Small & Medium Business Administration).

**2011**

Cited as Doosan Corporation's excellent partner in celebration of Doosan Corporation's production of 1 million units.

**2012**

Obtained patent on heat treating furnace for heating (Patent No. 10-1145269).  
Selected for the Corporation-attached Research Institute Establishment Program of the Small & Medium Business Administration.  
Expanded place of business (Chunhwa Agro-industrial Complex in Miryang)

**2013**

Produced personal weapon sights for the Ministry of National Defense.  
Cited as a partner with excellent quality products by Doosan Corporation Mottrol BG.  
Obtained patent on pressure jig for heat treatment (Patent No.10-1232721).



# 1-2(4). Company History

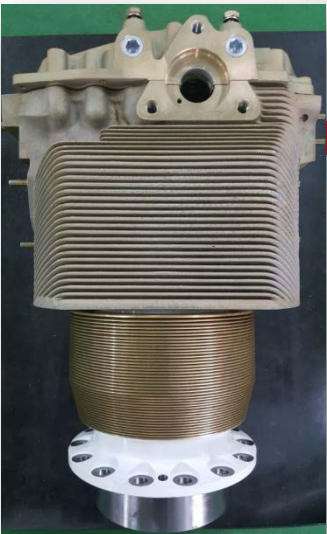
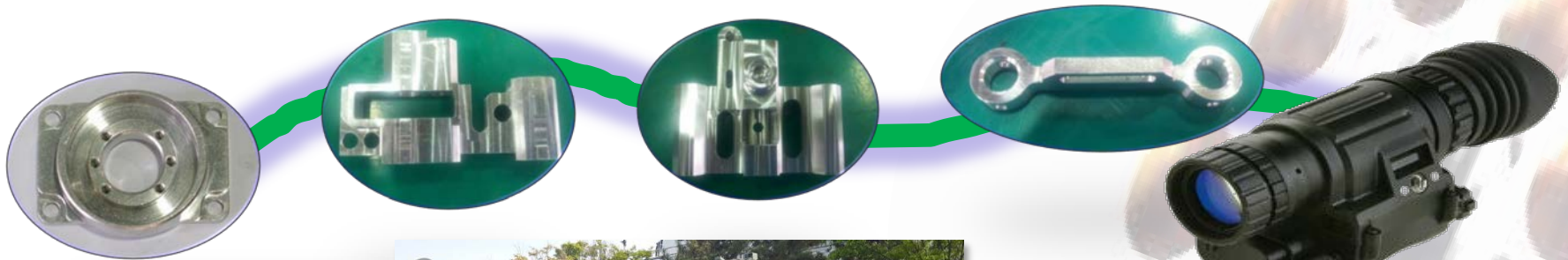


2014 ~ 2017

Produced K4, K12, and K14 defense firearm parts.  
Produced K1 and K2 defense tank parts.

2017

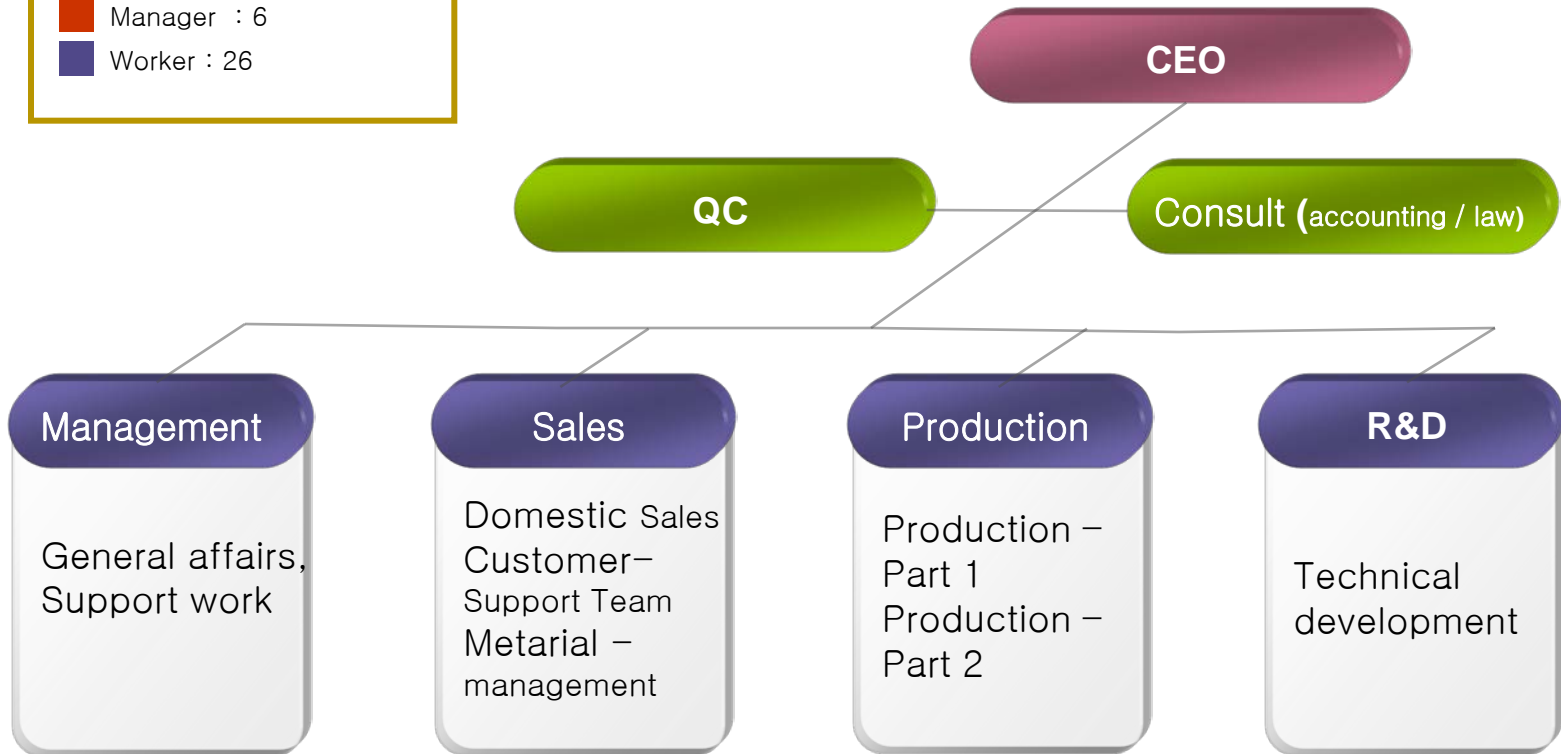
Obtain an ISO 90014001 Recertification.  
Produced M48 Cylinder head for tank diesel engine parts.



# 1-3. Organization chart



- Executive : 2
- Tech/QC : 6
- Manager : 6
- Worker : 26

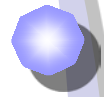




# 1-4(1). Business ideology



## Business ideology



**Trust** : Pursuing win-win relationships with our customers/suppliers while promoting close cooperation with them with integrity and sincerity.



**Creation** : Seeking both individual and corporate development with creative way of thinking and prompt response to the changing environment.



**Challenge** : We will not fear adversity, and create our future and challenge with strong challenging spirit.

# 1-4(2). Management Policy



## Management Policy



Customer Happiness, Top Quality

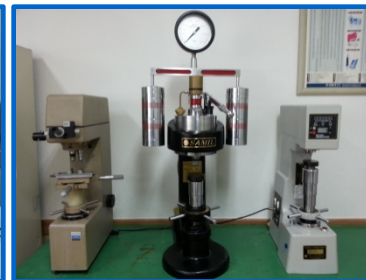
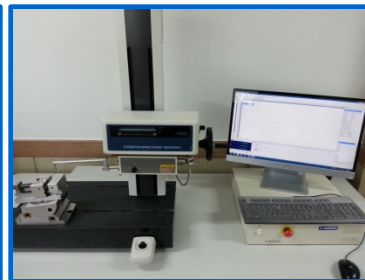
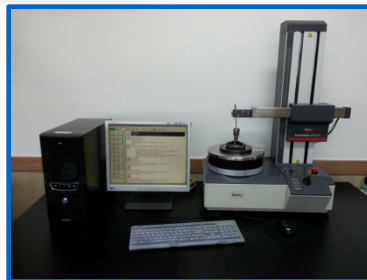
Constant creation and perpetual improvement

Prime cost reduction and compassionate progress

# 1-5(1). Company photography



## Kyung-il GMC Co.,LTD



# 1-5(2). Manufacturing Equipment



CNC Line



CNC COMPLEX



MACHINING CENTER



F.M.S



INTEGREX-200



INTEGREX -J300



MACHINING CENTER-800



MACHINING CENTER NEXUS600-II



# 1-5(3). Testing Equipment



Ultrasonic flaw detector



FORMTESTER



Valve tester



Relief tester



Round tester



3D measuring instrument



R.C.V tester



Pedal tester



# 1-6(1). Manufacturing Equipment List



Equipment Name	Standards	Qty	Manufacturer
CNC	QT15N/QT18N/30N	17	MAZAK
H-MCT	H500	5	MAZAK
H-MCT	H630	1	MAZAK
H-MCT	H800	1	MAZAK
V-MCT	AJV-25/405	1	MAZAK
H-MCT	FH-4800	1	MAZAK
F.M.S.	H500	2	MAZAK
ING40	40-ATC M/C	2	MAZAK
SUPER TURN	15MS	2	MAZAK
INTEGREX	200 III ST OPTION	3	MAZAK

# 1-6(2). Manufacturing Equipment List



Equipment Name	Standards	Qty	Manufacturer
HONING	CVH-06S	3	CLEANTECH
ULTRASONIC CLEANER	(800L)	1	SINA ENC CO., LTD.
Tool Presetter	TP-500	1	MAZAK
Air Compressor	SUP-20	1	MAZAK
Air Compressor	SSC-50A	1	KOREA
HYD' Power Unit	130KG/cm <sup>2</sup> *6,000ℓ	1	KOREA
Relief Valve Test	1000*1000*1450	1	KOREA
R.C.V Tester	1200*1000*2500	1	KOREA
Pedal Valve Tester	1500*1500*2500	1	KOREA
Dozer Valve Tester	1500*1500*2500	1	KOREA

# 1-6(3). Manufacturing Equipment List



Equipment Name	Standards	Qty	Manufacturer
CNC COMPLEX MACHINE	PUMA GT2100M	4	DOOSAN
INTEGREX	J-300	1	MAZAK
INTERNAL GRINDER	IGN25-322	2	NAGAOKA
CLEANER	ULTRASONIC WAVES	1	GYEONGAN TECH
H-MCT	FH-4800	1	MAZAK
H-MCT	NEXUS 6000- II	1	MAZAK
V-CNC	V740T	2	DOOSAN
V-CNC	ST-850VD	2	S&T
V-CNC	18i-T	1	DAEWOO

# 1-6(4). Testing Equipment List



Equipment Name	Standards	Qty	Manufacturer
3 D M E A S U R I N G MACHINE	CONTURA 122410 / 7106	2	CARL ZEISS
FORMTESTER	MMQ44 CNC	1	MAHR
PROJECTOR	CPJ-3015Z	1	WANHAO PRECISION
PERTHOMETER	PERTHOMETER M1	1	MAHR
ROCKWELL HARDNESS TESTER	RO50415	1	AKASHI
VICKERS HARDNESS TESTER	AVK-A	1	삼일정밀
M E T A L L U R G I C A L MICROSCOPE	1.5*40	1	OLYMPUS
GAUGE BLOCK SET	516-942R-10	1	MITUTOYO
U L T R A S O N I C F L A W DETECTOR	ULTRASONIC FLAW DETECTOR	1	OLYMPUS
S H A P E / C O N T O U R MEASURING MACHINE	CONTOURECORD 1600GH	1	ACCRETECH

# 1-7(1). Heavy Equipment Parts



**HPVO 91DW**



**HPV 116**



**DOZER**



**HPVO 102**



**R.C.V**



**HPV 145**



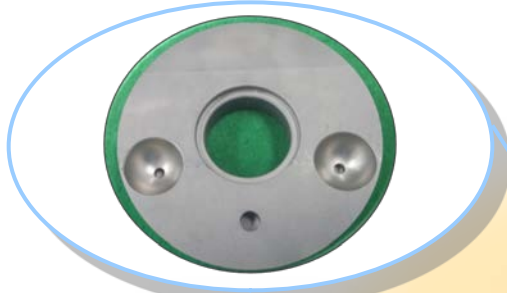
**RELIEF V/V**



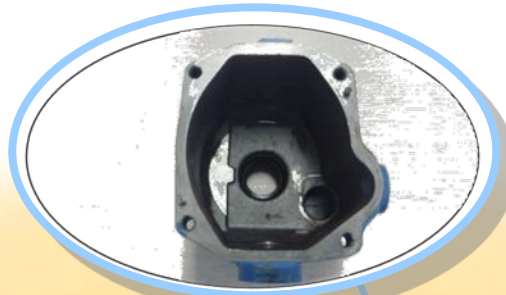
**PEDAL**



# 1-7(2). Swash plate type hydraulic pump



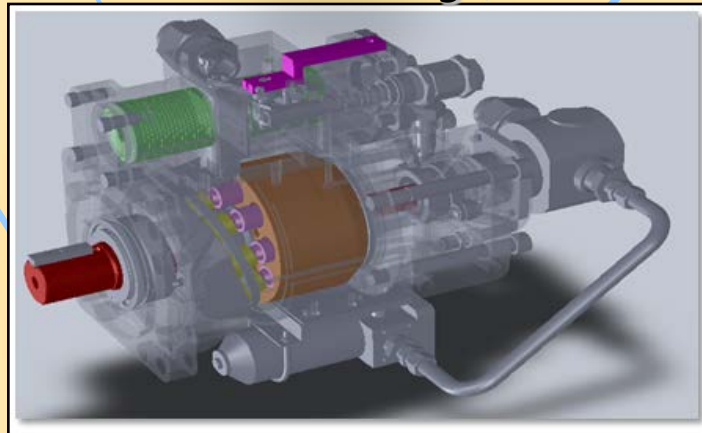
**Swash plate**



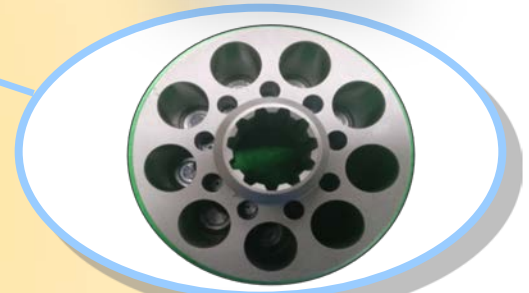
**Housing**



**York**



**Piston ASS'Y**



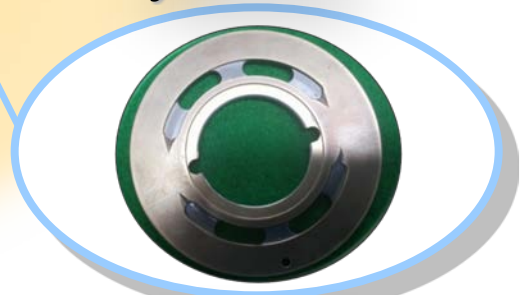
**Cylinder Block**



**Piston**

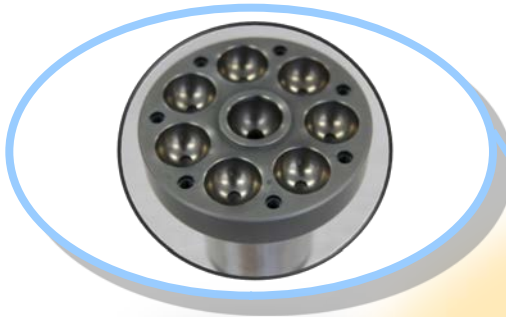


**Cover**

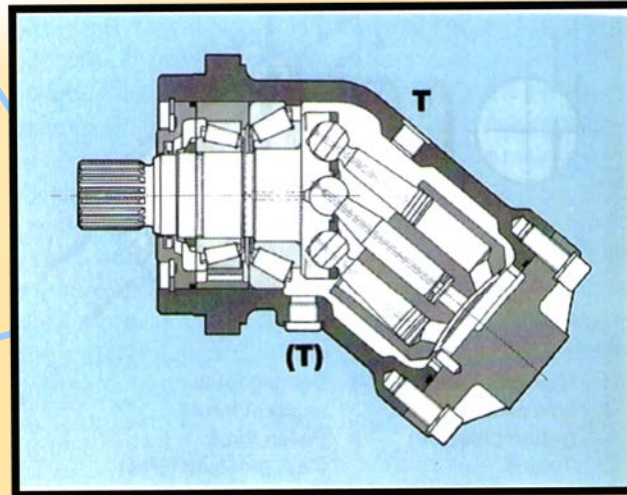


**Valve plate**

# 1-7(3). Axial piston type hydraulic pump



**Drive shaft**



**Fixed plate**



**Piston**



**Cylinder Block**

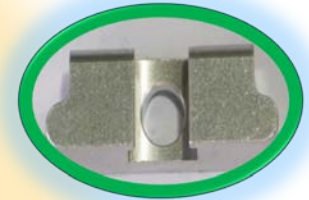


**Valve plate**



**Axial Piston**

# 1-7(4). Night Vision Goggles Parts



Mounting plate



Switch cover



Brightness control switch



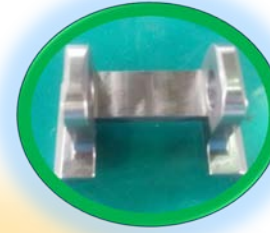
Objective lens housing



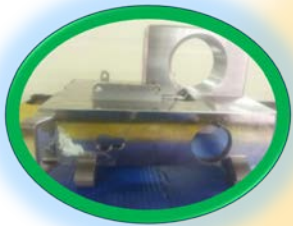
# 1-7(5). Gun parts – K4,K12,K14



**PAWL**



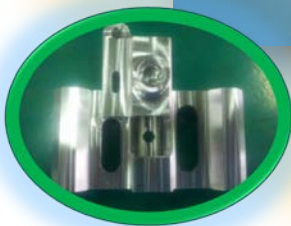
**BRACKET  
REAR**



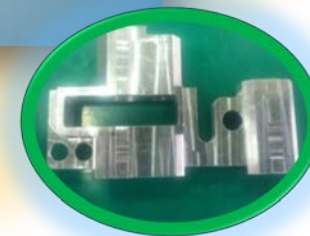
**FEED CHUTE**



**INSERT, PART**



**INSERT, BUTT  
ASSEMBLY**



**INSERT, PART-1**

# 1-7(6). Tank Parts



Hub



Housing, for mechanical electric devices



Arm, for releasing handle



Lever actuator assembly

Housing, lifting device

Axle, shoulder type

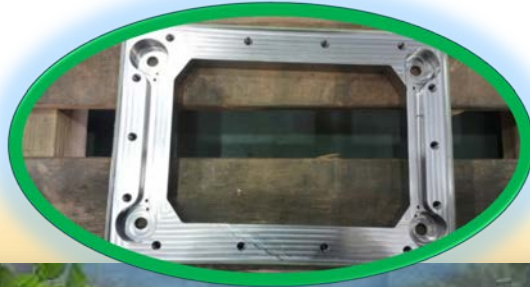




# 1-7(7). Tank Parts



**Gate**



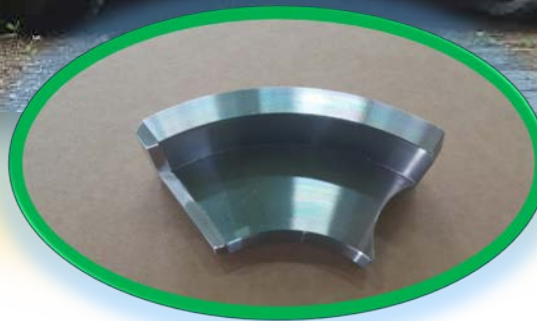
**Pad**



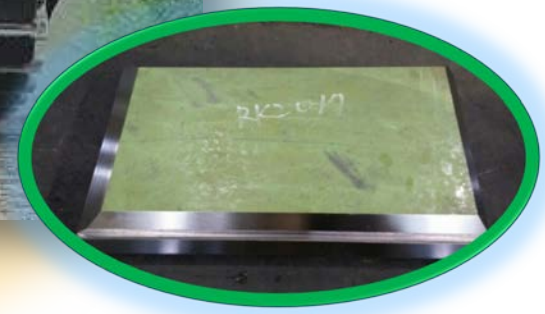
**Cover**



**Plate**



**Flange**



**Plate**



# 1-7(8). Tank Parts



M48

## Passing Performance Test



육군 제2879부대



수신 국방기술개발원장  
(공위) 기동력2팀  
제육 중앙조달소 부속 성능시험 결과 통보

1. 경원군거  
가. 청정예규 260(17. 1. 25.) 품질검사 운영예규 조달품 부착시험  
나. 계약번호 20170110579(17. 7. 18.)
2. 취 경원군거에 따라 중앙조달소에 대한 부속 성능시험 결과통보 및요청과 같이 보고하  
니다.

검교번호	제품명	수량	계약일	시험결과
201801107020	M48용 디젤엔진용 실린더 헤드	12	2017. 12. 18.	양호

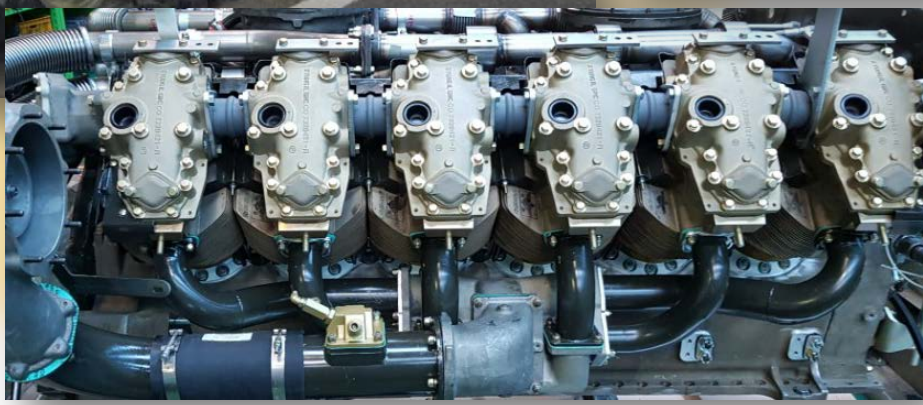
Cylinder head, for Diesel Engine **Pass**

육군제2879부대장인

조달품 부속 명칭: 디젤엔진실린더 헤드  
 검사일: 2017. 12. 18.  
 검사장소: 국방기술개발원 동부시험장  
 시험 결과: 양호 (2017. 12. 18.)  
 주: 61404 경상남도 창원시 성산구 상남동 47 명동우체국 사서함 82, www.commd.army.mil  
 연락처: 880-8602 팩스번호 066-262-4738 / nsungwoo@army.mil / 최영기(기)  
 \*참고: 본시험 부속 및 제조소, 연계 하위회사 도표명 주소입니다.\*  
 문서관리과 기동력2팀-4389 1/1



**CYLINDER HEAD,  
For ENGINE**



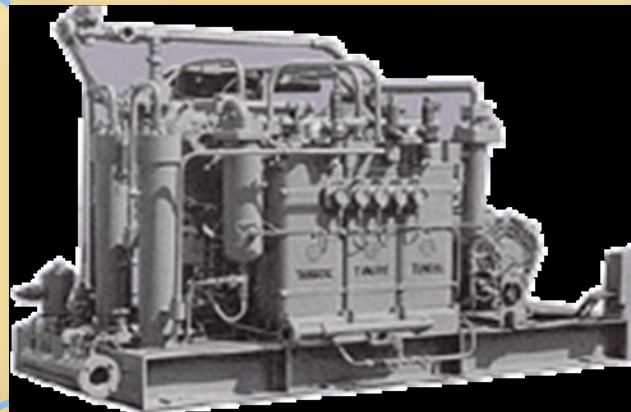
# 1-7(9). Vessel and Machining Equipment Parts



**THROTTLE CHECK V/V**



**REDUCING V/V**



**HOUSING**



**CRANK SHAFT**

## 2. Customer



(주)두산모트롤



S&T MOTIV(주)



파카 코리아(주)



세원 셀론텍(주)



(주)월드 튜브



볼보 건설기계 코리아



대성나찌



현대산기(주)

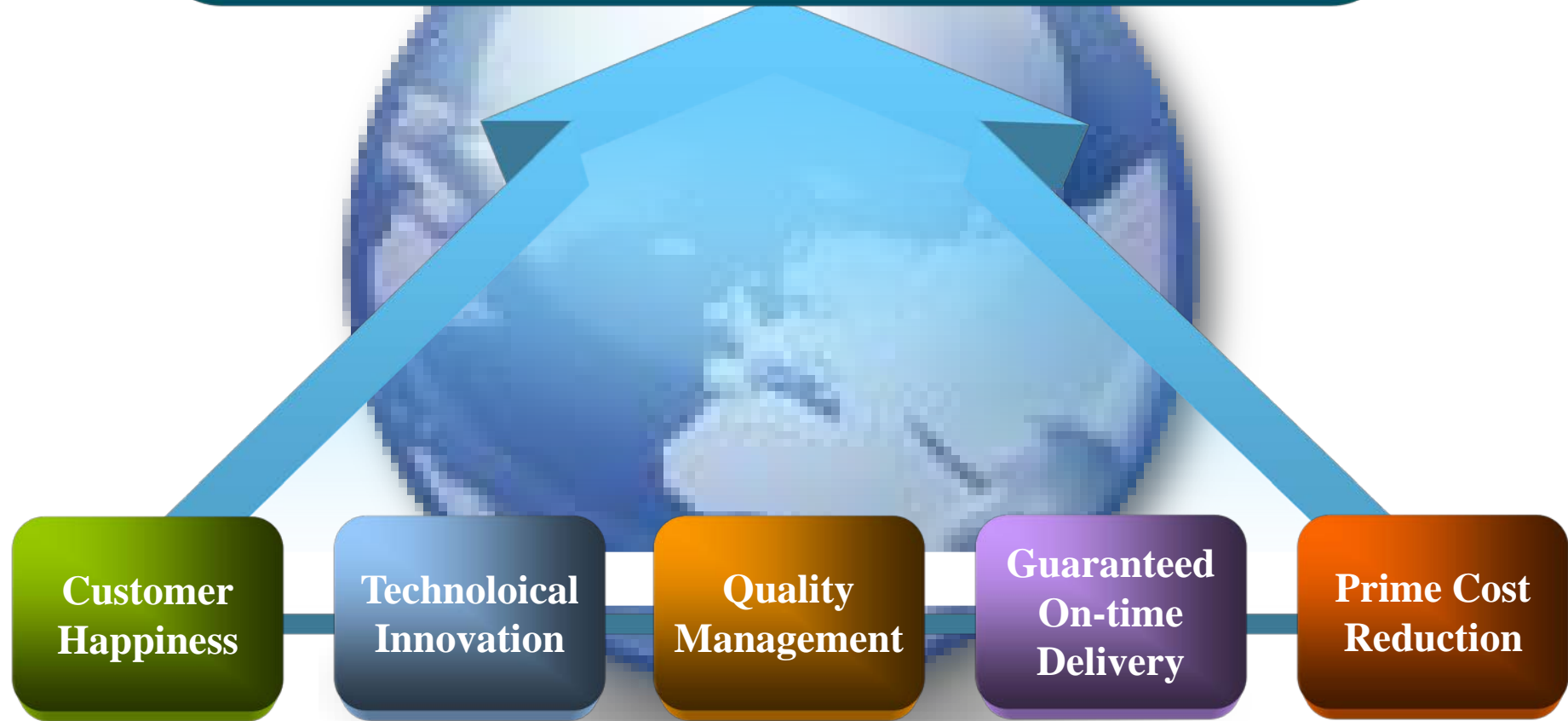


(주)동인광학





## Leading Manufacturer Specialized in Machining





# 4-1. Certifications and Quality Management



## 품질경영시스템 인증서

**(주) 경 일 지 엠 씨**  
경상남도 밀양시 부북면 춘화농공단지길 12-30

SBC 인증원은 위 회사의 품질경영시스템이  
아래의 시스템 규격과 인증범위의 요구사항에 적합함을 인증함.

결 영 시 스템 표 준  
**KS Q ISO 9001 : 2015 / ISO 9001 : 2015**

인 증 범 위  
유압부품(실린더, 밸브, 펌프, 모터) 및  
자동차부품의 설계·개발, 생산, 설치 및 부가서비스

인증일자 : 2015. 12. 11    만료일자 : 2021. 01. 01    발급일자 : 2017. 12. 21





대표이사 **정우봉**

인증번호 : QMS-3467




SBC 인증원은 한국(당시)산업자원부(현)산업통상자원부(현)로부터 품질경영시스템 인증기관으로 인정받은 기관(KAS-00-0000000000)입니다.  
 SBC 인증원 자체에 대한 국제(당시)인증기관(현)으로부터의 인증기관으로서의 인증 범위에 대한 인정하지 않습니다.

## CERTIFICATE OF REGISTRATION

**KYUNG IL GMC CO., LTD.**  
12-30, Chunhwanonggongdanji-gil, Bubuk-myeon, Miryang-si, Gyeongsangnam-do, Korea.

SBC Registrar certify that the Quality Management System of the above  
organization has been assessed and found to be in accordance  
with the requirements of the standards  
and scope of certification detailed below.

*Standards*  
**KS Q ISO 9001 : 2015 / ISO 9001 : 2015**

*Scope of Supply*  
The Design-Development, Manufacture, Installation and Servicing of  
Hydraulic(Cylinder, Valve, Pump, Moter) and Automobile Pares

Initial Registration Date : 2015. 12. 11    Expire Date : 2021. 01. 01    Issue Date : 2017. 12. 21





CEO & President

Certificate Number : QMS-3467




SBC accreditation is an indication that the certification body has been accredited by the KQI (a governing certifier in accordance with the ISO 9001) accreditation number: KAS-00-0000000000.  
 SBC is a member of the International Accredited and Approved Registrar Association for Quality Management System.

### ISO 9001 품질 인증서(경일지엠씨)


# 4-1. Certifications and Quality Management



**ISO 14001 환경 인증서(경일지엠씨)**

# 4-2. Patent cards





## 특 허 증

CERTIFICATE OF PATENT

특허 제 10-1232721 호 <small>(PATENT NUMBER)</small>	출원번호 <small>(APPLICATION NUMBER)</small> 제 2011-0008555 호 출원일 <small>(FILING DATE:YY/MM/DD)</small> 2011년 01월 28일 등록일 <small>(REGISTRATION DATE:YY/MM/DD)</small> 2012년 02월 06일	제 2011-0008555 호 2011년 01월 28일 2012년 02월 06일
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발명의명칭 (TITLE OF THE INVENTION)  
열저리용 가압저그

특허권자 (PATENTEE)  
장명수(670418-1\*\*\*\*\*)  
부산광역시 부산진구 개금3동 455 신개금엘지아파트 215-1502

발명자 (INVENTOR)  
장명수(670418-1\*\*\*\*\*)  
부산광역시 부산진구 개금3동 455 신개금엘지아파트 215-1502


위의 발명은 「특허법」에 의하여 특허등록원부에 등록되었음을 증명합니다.  
(THIS IS TO CERTIFY THAT THE PATENT IS REGISTERED ON THE REGISTER OF THE KOREAN INTELLECTUAL PROPERTY OFFICE.)

2013년 02월 06일


특 허 증


연차등록료 납부일은 신청등록일 이후 4년차부터 매년 02월 06일까지이며 등록원부도 관리관계를 확인하십시오.

특허등록증



## 특 허 증

CERTIFICATE OF PATENT

특허 제 10-1145269 호 <small>(PATENT NUMBER)</small>	출원번호 <small>(APPLICATION NUMBER)</small> 제 2010-0007913 호 출원일 <small>(FILING DATE:YY/MM/DD)</small> 2010년 01월 28일 등록일 <small>(REGISTRATION DATE:YY/MM/DD)</small> 2012년 05월 04일	제 2010-0007913 호 2010년 01월 28일 2012년 05월 04일
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발명의명칭 (TITLE OF THE INVENTION)  
가열용 열저리

특허권자 (PATENTEE)  
장명수(670418-1\*\*\*\*\*)  
부산광역시 부산진구 개금3동 455 신개금엘지아파트 215-1502

발명자 (INVENTOR)  
장명수(670418-1\*\*\*\*\*)  
부산광역시 부산진구 개금3동 455 신개금엘지아파트 215-1502

위의 발명은 「특허법」에 의하여 특허등록원부에 등록되었음을 증명합니다.  
(THIS IS TO CERTIFY THAT THE PATENT IS REGISTERED ON THE REGISTER OF THE KOREAN INTELLECTUAL PROPERTY OFFICE.)

2012년 05월 04일


특 허 증


연차등록료 납부일은 신청등록일 이후 4년차부터 매년 05월 04일까지이며 등록원부도 관리관계를 확인하십시오.

특허등록증

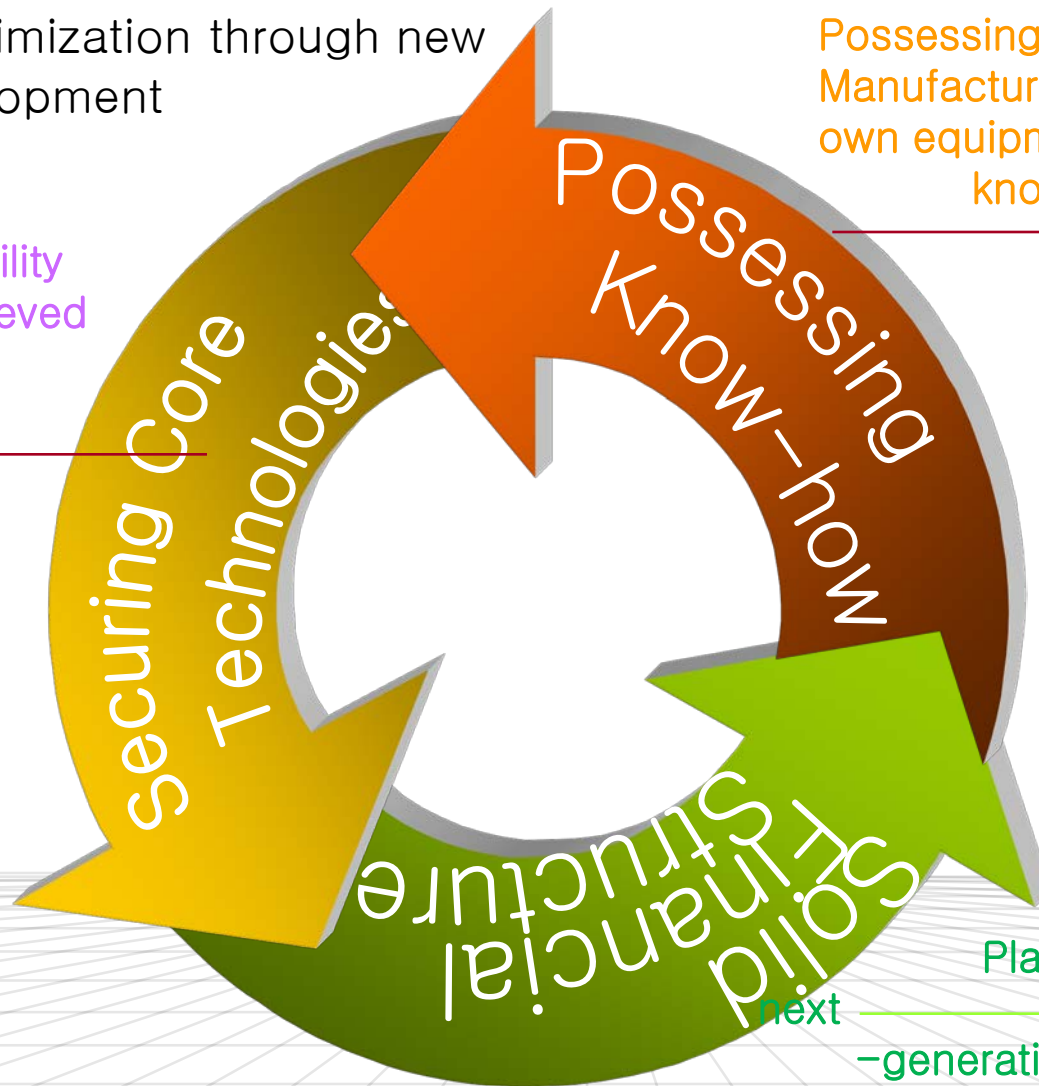
# 5-1. R&D Policy



◆ Profit maximization through new item development

Securing profitability and stability achieved through core technologies

Possessing long-established Manufacturing technology and its own equipment manufacturing know-how

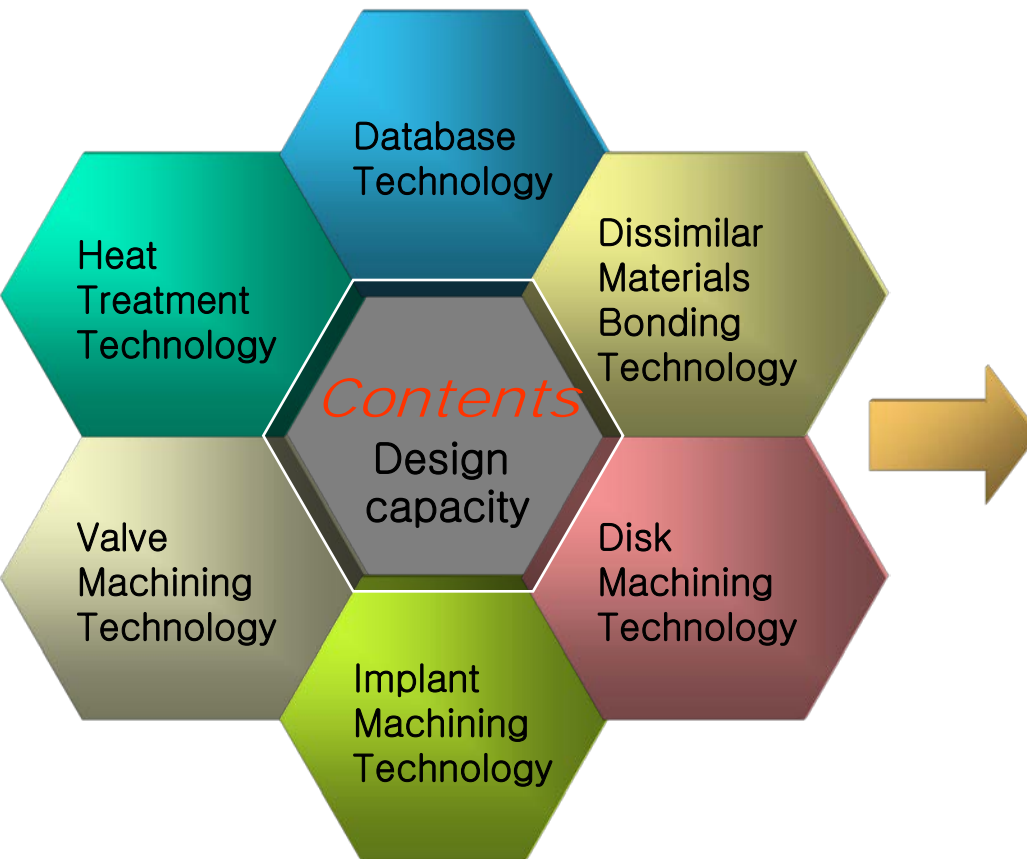


Planned development of next-generation items based on stable financial structure (defense items, implants)

## 5-2. Development Direction of R&D



- ❖ Strengthen core skills capabilities and contents development capabilities



- Pump Development
- R.C.V Development
- Pedal Valve Development
- Dozer Valve Development



## 6. Company location(address)



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