



**TAECHANG ENTERPRISE CO., LTD.**

**HEADQUARTERS & TECHNOLOGY RESEARCH INSTITUTE**

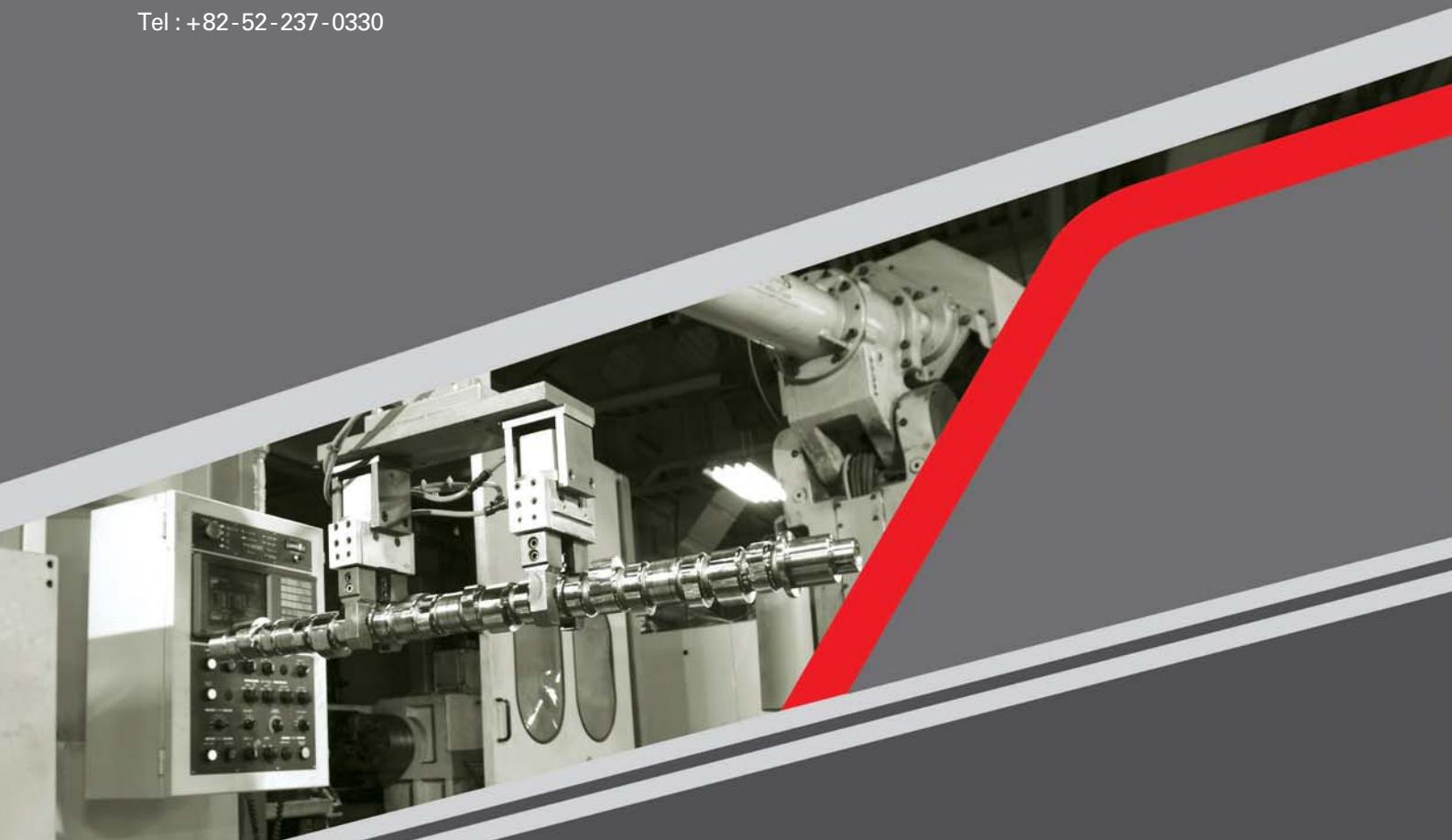
26-36, Sangdong-ro, 375beon-gil, Sangdong-myeon, Gimhae-si,  
Gyeongsangnam-do, Korea

Tel : +82-55-323-3600~5 Fax : +82-55-323-6490

**TAECHANG ALUMINIUM Co.,LTD.**

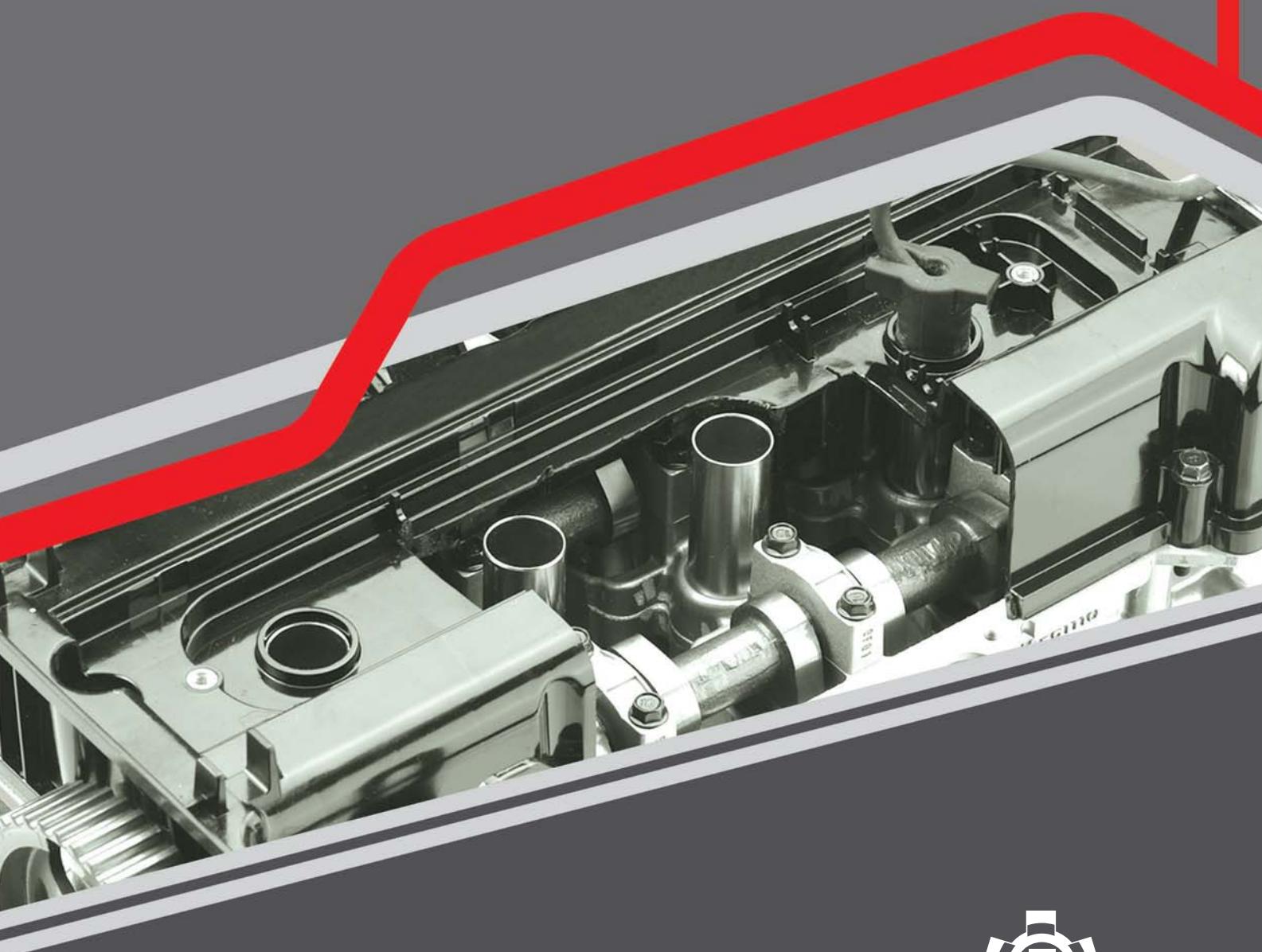
10-17, Daejeong-ro, Onsan-eup, Ulju-gun, Ulsan, Korea

Tel : +82-52-237-0330



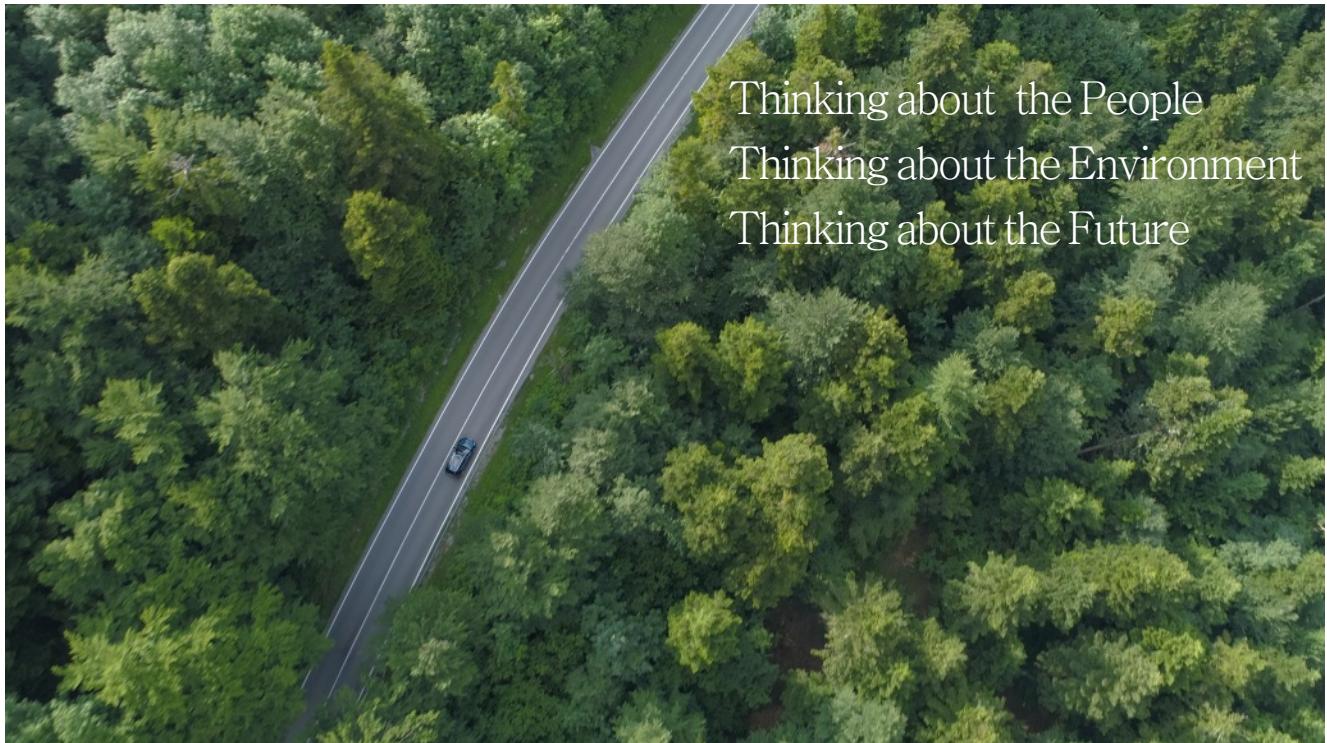
# TAECHANG

## ENTERPRISE CO., LTD.



[www.taechang-ec.co.kr](http://www.taechang-ec.co.kr)

# CEO GREETING



Thinking about the People  
Thinking about the Environment  
Thinking about the Future

Established in 1985 as Taechang Enterprise Co.,Ltd, we specialize in automobile parts and have been producing 5C parts, such as CAM-SHAFTS, CYLINDER HEADS/BLOCKS, CON-RODS and CRANK-SHAFTS, which are engine components requiring a high degree of precision and stability. We also specialize in manufacturing CHASSIS parts. Taechang is always at the cutting edge of research and development and has been investing in superior customer service and continuing its relentless efforts toward the development of product quality and the competitive pricing strategy through adopting advanced automatic robot production systems.

Through our dedication to improve the competitiveness by pursuing the best quality, technology and customer satisfaction, Taechang will become a world-class manufacturer in the auto part industry.

***CEO HONG-TAE SONG***

# CEO GREETING



태창기업 주식회사  
대표이사 송홍태

태창기업 주식회사는 자동차 부품 전문 회사로서, 1985년 창립 이래 고도의 정밀성, 안전성을 요구하는 주요 엔진부품 및 샤시부품 등의 기계 가공품들을 생산하고 있습니다. 품질 시스템 인증, 끊임없는 연구개발과 시설투자, 혁신문화의 정착 등을

통하여 저희 회사의 경영이념인 세계화, 품질혁신, 사고혁신을 실현하고자 최선을 다해 노력해 왔습니다.

4차 산업시대에 경쟁력을 갖추기 위하여 신소재를 활용한 경량화 기술, 전기모터 개발, 로보트를 이용한 유연한 생산자동화 시스템의 구축, 기계가공 분야의 전문지식과 노하우 축적으로 격변하는 세계 자동차 시장에서도 미래 기술 혁신을 선도하는 기업이 되고자 임직원 모두가 노력하고 있습니다.

태창기업 주식회사는 미래 자동차로 인류의 행복에 기여하기 위해 끊임없는 노력과 연구개발로 고객 신뢰에 보답하겠습니다. 고객여러분의 변함없는 관심과 성원을 기대합니다.

# 회사개요 COMPANY INTORUCTION



회사명 태창기업 주식회사  
Company Taechang Enterise Co,Ltd  
창업일 1985.06.20  
Establishment date of Business 1985.06.20  
대표이사 송홍태  
CEO Hong Tae Song  
사업분야 자동차부품제조  
Filed of Business Automotive Parts Manufacture



## 본사 및 기술연구소(Gimhae Plant & R&D Center)

주소 경남 김해시 상동면 상동로 375번길 26-36  
Address(50805) 26-36, Sangdong-ro, 375beon-gil,  
Sangdong-myeon, Gimhae-si, Gyeongsangnam-do, Korea  
전화(TEL) 055-323-3600  
팩스(FAX) 055-323-6490



## 울산공장(알루미늄 캐스팅)(Ulsan Plant)

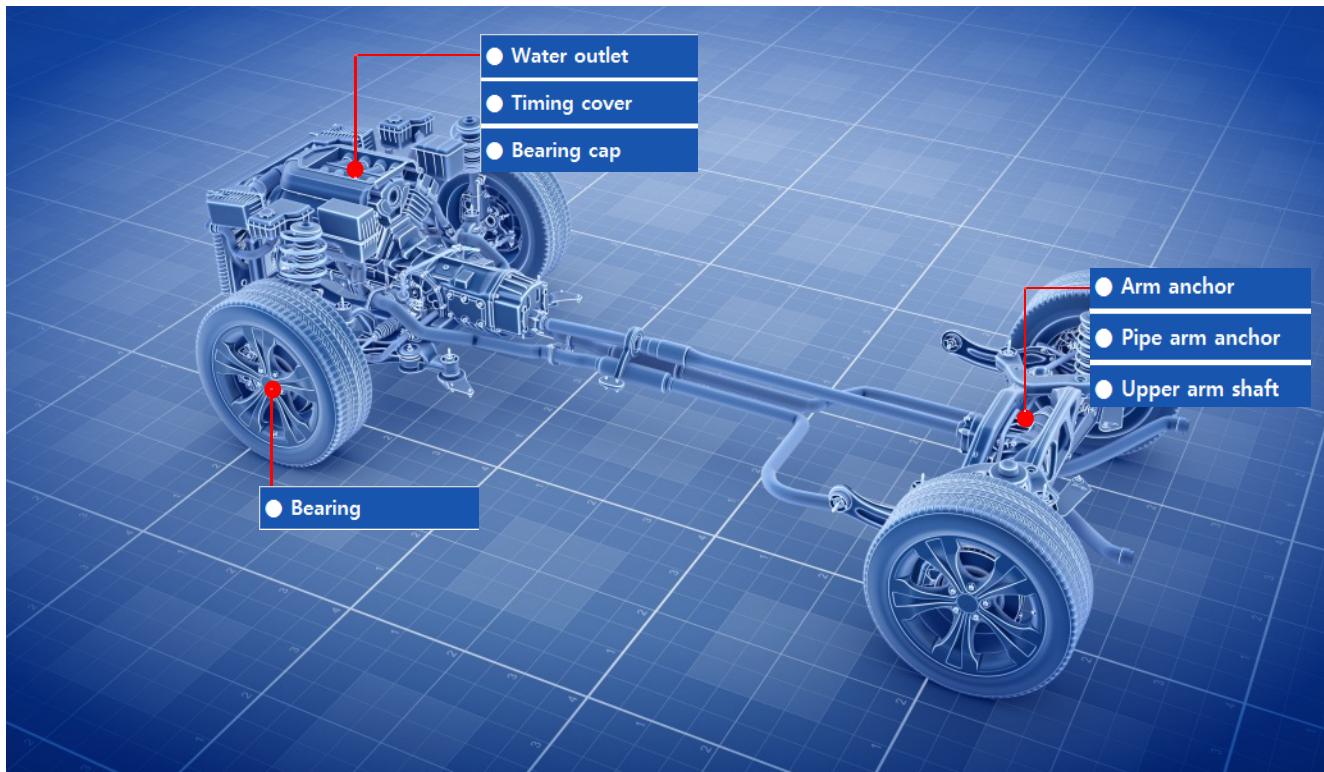
주소 울산광역시울주군온산읍대정로10-17  
Address(45009)10-17, Daejeong-ro, Onsan-eup, Ulju-gun,  
Ulsan, korea

# CREATING THE FUTURE THROUGH TECHNOLOGICAL INNOVATION



1985. 06 태창기업 창립 Established Taechang Enterprise Co., Ltd in Busan
1998. 10 신공장 이전(경남 김해시) Moved the factory to GimHae-Si from Busan
1999. 02 상용차용 Camshaft Line 신설 Opened Camshaft Line for Commercial Vehicles
2001. 02 QS 9000 인증 획득 Certified QS 9000
2002. 09 기술연구소 설립 Established the Technical Engineering Center
2004. 02 전주공장 설립(전북 완주군) Built Jeonju factory (plant #2)
2005. 12 ISO/TS 16949 인증 획득 Certified ISO / TS 16949
2006. 07 승용차용 Con-Rod Line 신설 Opened Con-Rod Line for Passenger car
2007. 07 대형트럭용 Camshaft Assy 독일 수출 개시 Export Camshaft Ass'y for A/S market to Germany
2009. 06 고급차용 Cylinder Head 부품 공급 Supplied Cylinder Head for Luxury car to Ssangyong Motor
2010. 03 Cylinder Head 말레이시아 수출 개시 Made a Supply Agreement of Cylinder Head with Proton Motor in Malaysia
2012. 05 Tractor 용 Cylinder Block/Head 부품 공급 Registered to LS Mtron Co. as a Tier-1 of Camshaft for Agricultural Tractor
2013. 08 Motorcycle 용 Cylinder Head 부품 공급 Supplied Cylinder Head for Motorcycles to S&T Motor
- 2015.03 산업공조기용 Camshaft 부품 공급 Registered to LG Electronics(Industry Conditioning Equipment(Camshaft))
- 2017.01 Tractor 용 Cylinder Block/Head 부품 공급 Established Tractor Cylinder Block/Head lines for LS Mtron
- 2018.12 IATF 16949 인증획득 Certified IATF 16949:2016
- 2020.07 무인항공기용 3KW급 AFG(Axial Flux Generator) 기술 개발  
Development of 3kW Axial Flux Generator (AFG) for unmanned air vehicles
- 2020.12 전기자전거용 0.4KW급 AFM(Axial Flux Motor)기술 개발  
Development of 0.4kW AFM (Axial Flux Motor) for electric bicycles
- 2021.04 ISO 14001 인증획득 Certified ISO 14001:2015
- 2021.05 DL Motors 협력업체 등록 Registered to DL Motors
- 2021.08 일진그룹 협력업체 등록 Registered to Ijin Group
- 2021.08 대영정공(주) 협력업체등록 Registered to Daeyoung Automotive

# 제품/PRODUCTS



## Chassis Part



임양카  
Forging arm-anchor



파이프 앙카  
Pipe arm-anchor



업퍼 암 샤프트  
Upper arm-Shaft



베어링  
Bearing



베어링 캡  
Bearing cap



워터 아울렛  
Water outlet



타이밍 커버  
Timing cover

## MAIN PRODUCTS

### Chassis parts



-Forging arm-anchor



-Pipe arm-anchor



-Upper arm-shaft

-Bearing



-Bearing cap



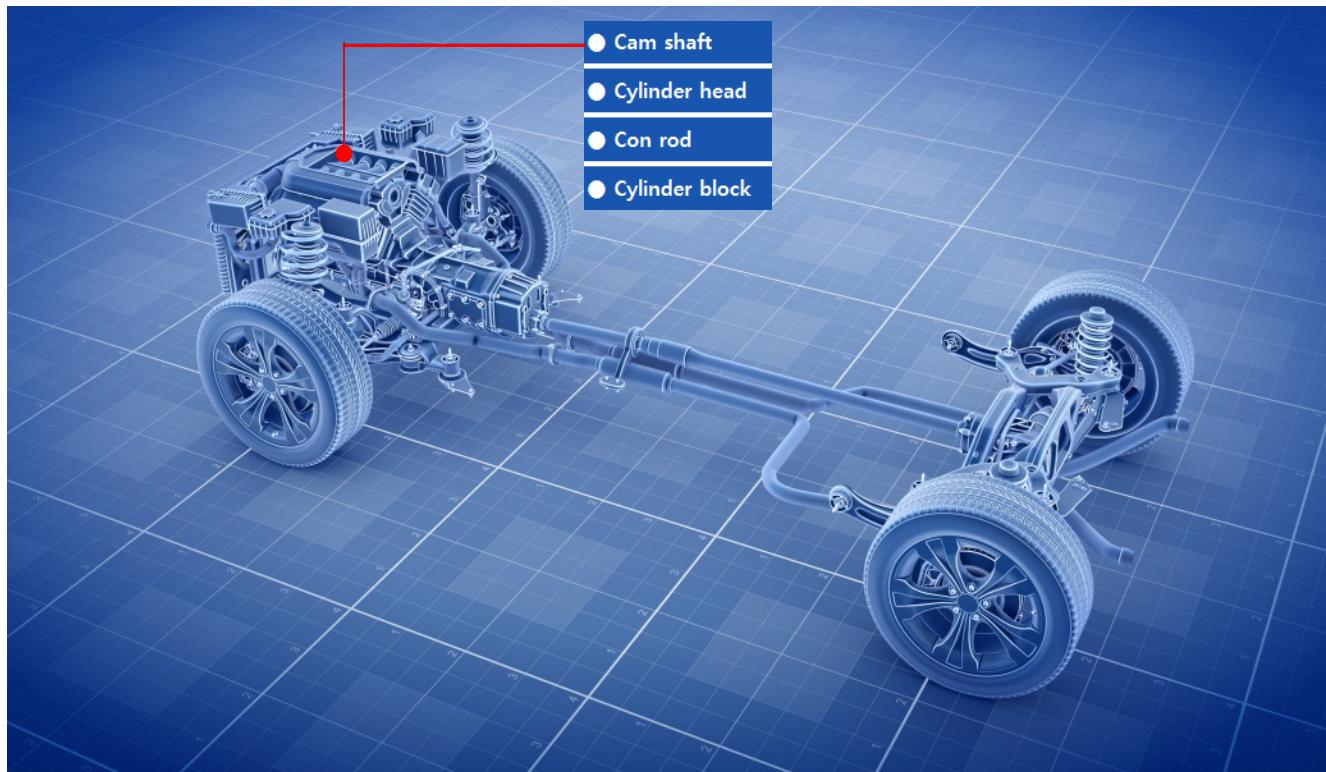
-Water Outlet



-Timing Cover



## 제품/PRODUCTS



### Engine Part



캠샤프트  
Camshaft



실린더 헤드  
Cylinder head



콘로드  
Con-rod



실린더 블록  
Cylinder block

## MAIN PRODUCTS

### Engine Parts

#### ◦ Cylinder head

Cylinder head is an engine part which is assembled to cylinders on the upper face of the cylinder block within the combustion engine.



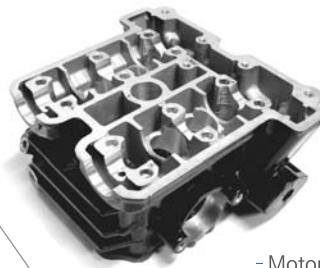
- Gasoline 3600cc



- Gasoline 1600cc



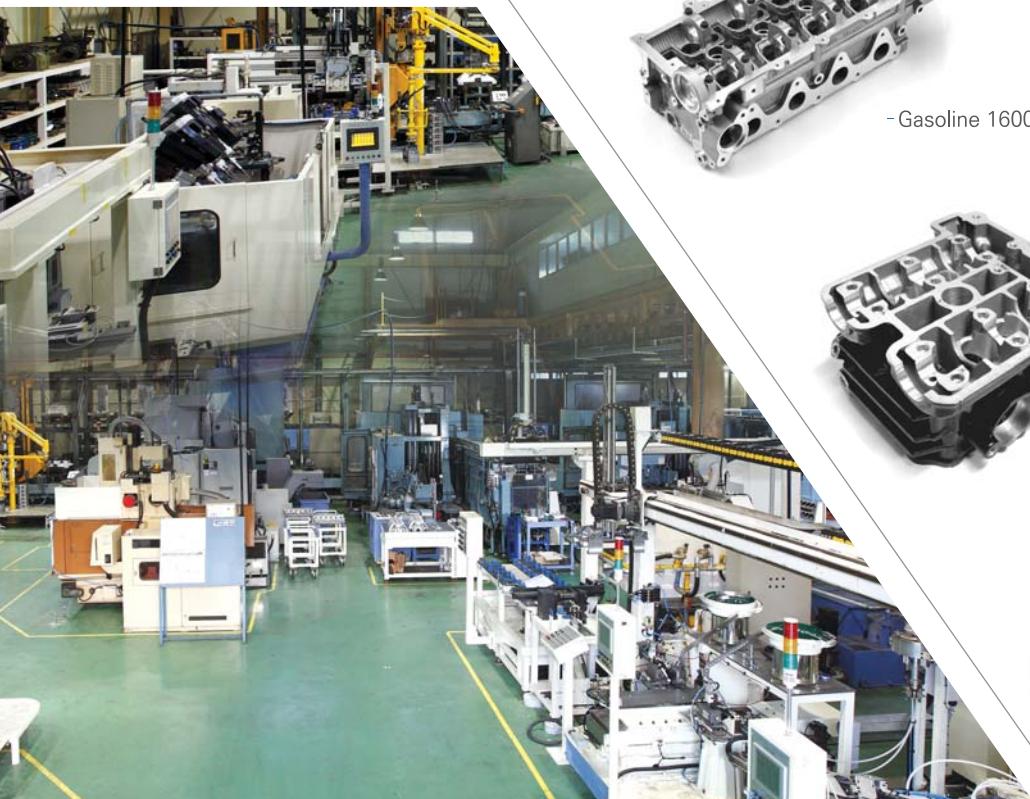
- Gasoline 1600cc



- Motorcycle 650cc



- Motorcycle 250cc



## Engine Parts

### ◦ Cam Shaft

This product is a main engine component that precisely controls the opening and closing of the intake and exhaust valves.



- Heavy duty Vehicles



- Medium duty Vehicles



- Light duty Vehicles



- Passenger Car



- Agricultural Tractor



- Camshaft Ass'y for Heavy duty Vehicles

## Engine Parts

### ◦ Con-rod

Con-rod is a main engine part of a car that connects the piston and the crank shaft of the engine and delivers the movement of the piston to the crank.



- Diesel 2600cc



- Gasoline 1600cc



### ◦ Cylinder block



-Agricultural tractor



## QUALITY EQUIPMENT

- 3D CMM (3D Coordinate Measuring Machine)
- Camshaft Measuring Systems
- UTM (Universal Testing Machine)
- Surface Roughness & Counter Tester
- Video Microscope
- Hardness Tester
- Others

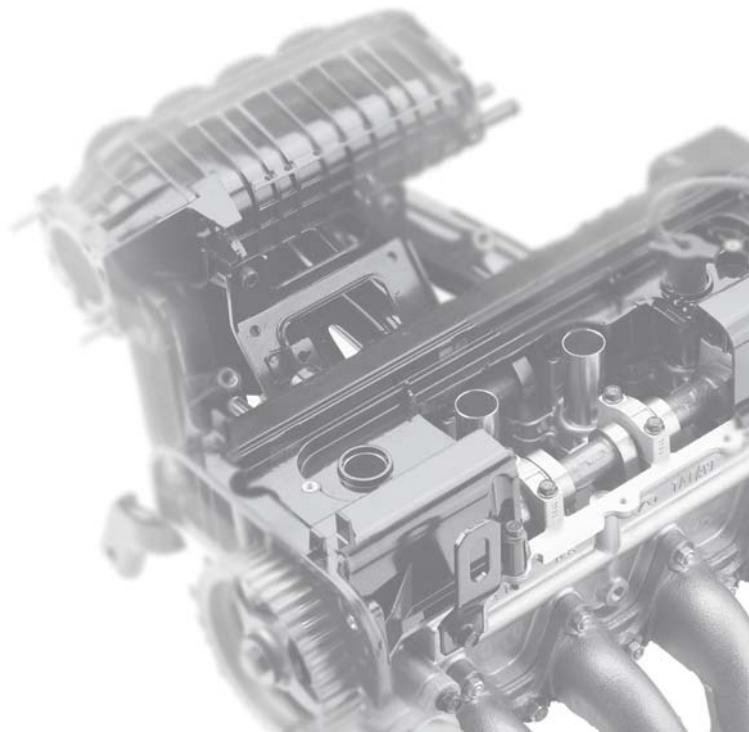


## PRODUCTION FACILITY

### ◦ Automatic Robot Production Systems



- Machining Center
- Cam/Journal Grinding Machine
- CNC Lathe & Tapping Machine
- Induction Hardening Machine
- Laser Cutting, Fracture Splitting Machine
- Others



## ■ QC Equipment

NO	Process	TEST Equip'	Unit	Spec.	Machining Center
1	MEASUREMENT SYSTEM	3D MEAS' M/C	3	Various	DUCK-IN
2		VIDEO MICROSCOPE	1	x4200	BAESTECH
3		HARDNESS TESTER	4	ROCKWELL etc.	DAESUNG
4		HARDNESS TESTER	4	SHORE	MITUTOYO
5		CAMSHAFT INSPEC. SYS.	2	Max. 1200mm	HOMMEL
6		PROFILE PROJECTOR	1	450×150mm	MITUTOYO
7		TENSILE TEST	2	10,000kgf	JIN-SEONG
8		CONTOUR TESTER	1	-	KOSAKA
9		OTHERS	5	Various	Various
10	DESIGN	3D ANALYSIS TOOL	1	ANSYS Maxwell	ANSYS
11		3D DESIGN TOOL	1	CATIA V5	DASSAULT
12		2D DESIGN TOOL	5	AUTO CAD 2020	AUTODESK
13		2D DESIGN TOOL	1	CADMAS 13	HONG SUNG

## ■ Product Facility

### CNC Lathe

NO	Machining Center	Qty'	Machining Center
1	Machining Center	65	Various
2	CNC Lathe	31	Various
3	Auto Drill M/C	10	Various
4	Tapping M/C	15	Cylinder Head / Valve
5	Assembly M/C	16	Cylinder Head / Valve
6	Leak Test	20	Cylinder Head / Valve
7	Cam Grinding M/C	12	Camshaft
8	Journal Grinding M/C	15	Camshaft
9	Induction Hardening & Tempering	5	Camshaft
10	Centering M/C	6	Camshaft
11	Lapping M/C	3	Camshaft
12	Laser Cutting, Fracture M/C	1	Con-rod
13	Auto Sawing M/C (for Con-Rod)	1	Con-rod
14	Hyd. Cyl. Honing M/C	2	Con-rod
15	Boring M/C	2	Con-rod
16	Thread Rolling M/C	2	Various
17	Complex Milling M/C	6	Various
18	Others	64	Various

# Research & Development

An innovative technology leader for the future cars

미래 자동차 문화의 혁신적인 기술 선도기업 태창기업



2002년 9월 태창기업(주) 기술연구소를 설립해 자동차 부품에 대한 기술개발 및 연구활동으로 2003년 2월 한국 산업 기술진흥협회의 기업부설연구소를 인증, 활발한 연구활동을 바탕으로 각종 산학연 공동기술개발을 성공적으로 수행하였으며, 자동차 산업의 다양한 신기술 인정 및 지적재산권을 보유하고 있습니다.

In September 2002, Taechang Enterprise established a research and development center for automotive technology development and research activities. In February 2003, the Korea industrial Technology Association certified Taechang's research and development center.

## R&D 목표/Objectives

01

성능향상

Performance  
Improvement

02

원가절감

Cost Reduction

03

최적설계

The optimal  
design

04

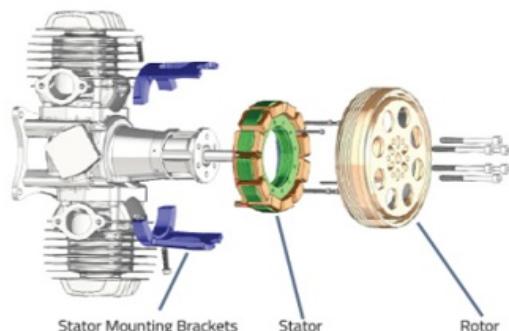
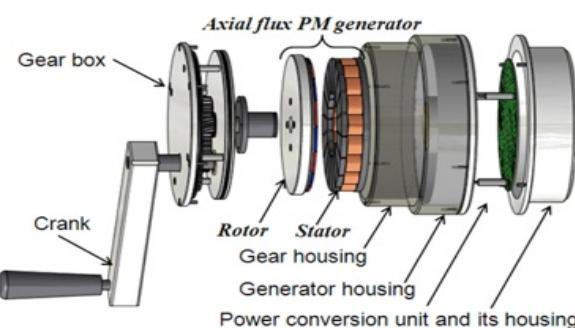
환경법규

Environmental  
Regulation

# 연구분야

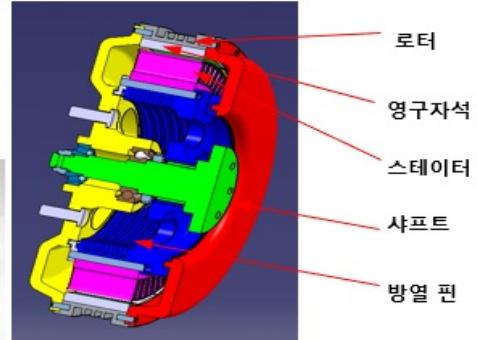
## Research & Development

### 하이브리드 전기추진시스템



### E-SCOOTER

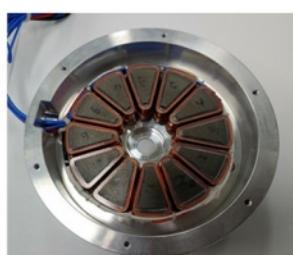
#### ◎ Features of Electric Scooter



- 외 전형(Outer-rotor), 직구동형(Direct Drive), In-wheel system
- 고 효율(>95%) – 주행거리 30% 향상
- 우수한 등판 능력 (30 %(13.5 도) 이상)
- 1.5 K watt (50 cc 급) BLDC - 개발완료
- 3.3 K watt (110 cc 급) – 개발 중

- BLDC Motor
- Outer Rotor Type
- Direct Driver
- Distribution & Parallel Winding
- In-Wheel Motor
- Air-Cooled, Water-Cooled

### MOTOR & GENERATOR



0.4kW - AFM



3kW - AFG



4.2kW - AFG



BLDC - In Wheel

# TAECHANG ALUMINUM CO., LTD.

- Casting Process : Low Pressure Die Casting  
Gravity Die Casting (Tilting Type)  
Low Pressure Precision Sand Casting  
Gravity Sand Casting

Cylinder Head



Cylinder Block



Others





## PRODUCTION FACILITY

- Molding Line
- Sand Reclamation Line
- Melting Line
- Casting Line
- Heat Treatment Line
- Finishing Line

