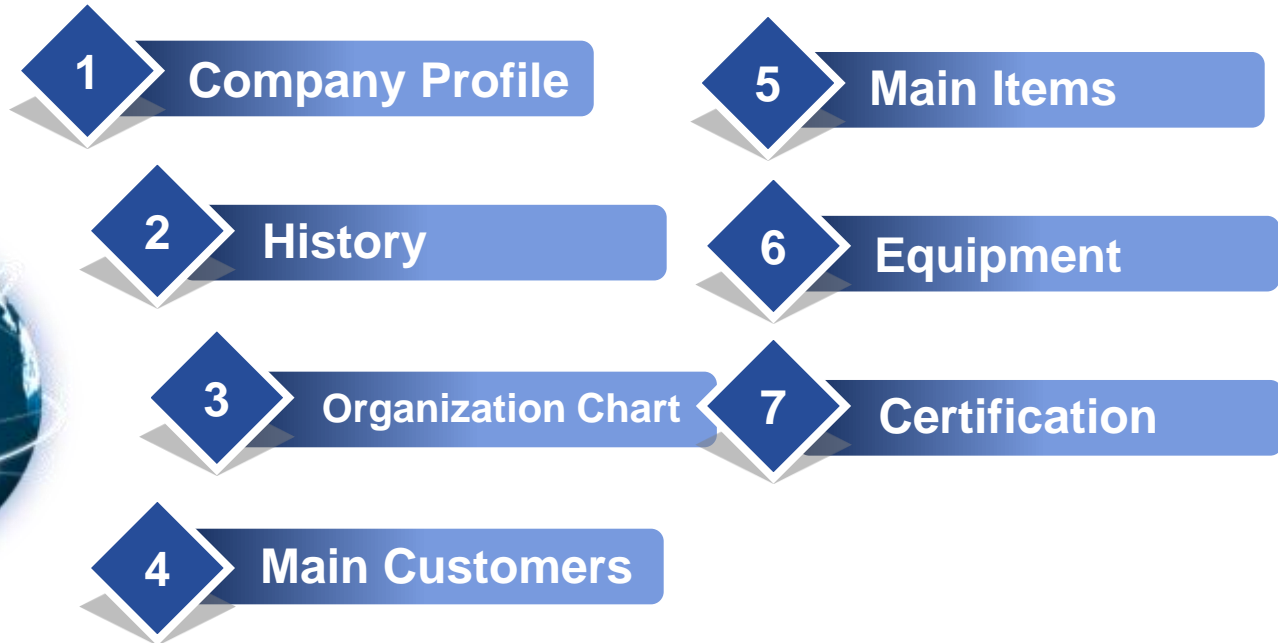




KOREA
DIGITAL
MANUFACTURING

Contents
















Company Profile

Company Profile

Your No.1 Business Partner

| | |
|---|---|
|  Name | KODIMA Co., Ltd. |
|  CEO | KIM, SUNG-TAI |
|  Found | December 1st, 2000 |
|  Turnover | \$9M(2019) |
|  Business | Die build, Simultaneous Engineering, 2d/3d Die Design, manufacturing stamping parts |
|  Address | 30-5, Cheoyong Sanup 3-gil, Onsan-eup, Uljoo-goon, Ulsan, South Korea |
|  Capital | KRW 540,000,000 |
|  Plant scale | Site: 8,822m ² (Plant: 5,302.40m ² , Office: 1,482.88m ² , Etc 876.69m ²) |
|  Main Item | Automotive parts (Press, Welding) |
|  Personnel | 27 (Office: 16/ Plant: 11) |
|  Homepage | http://www.kodima.com |



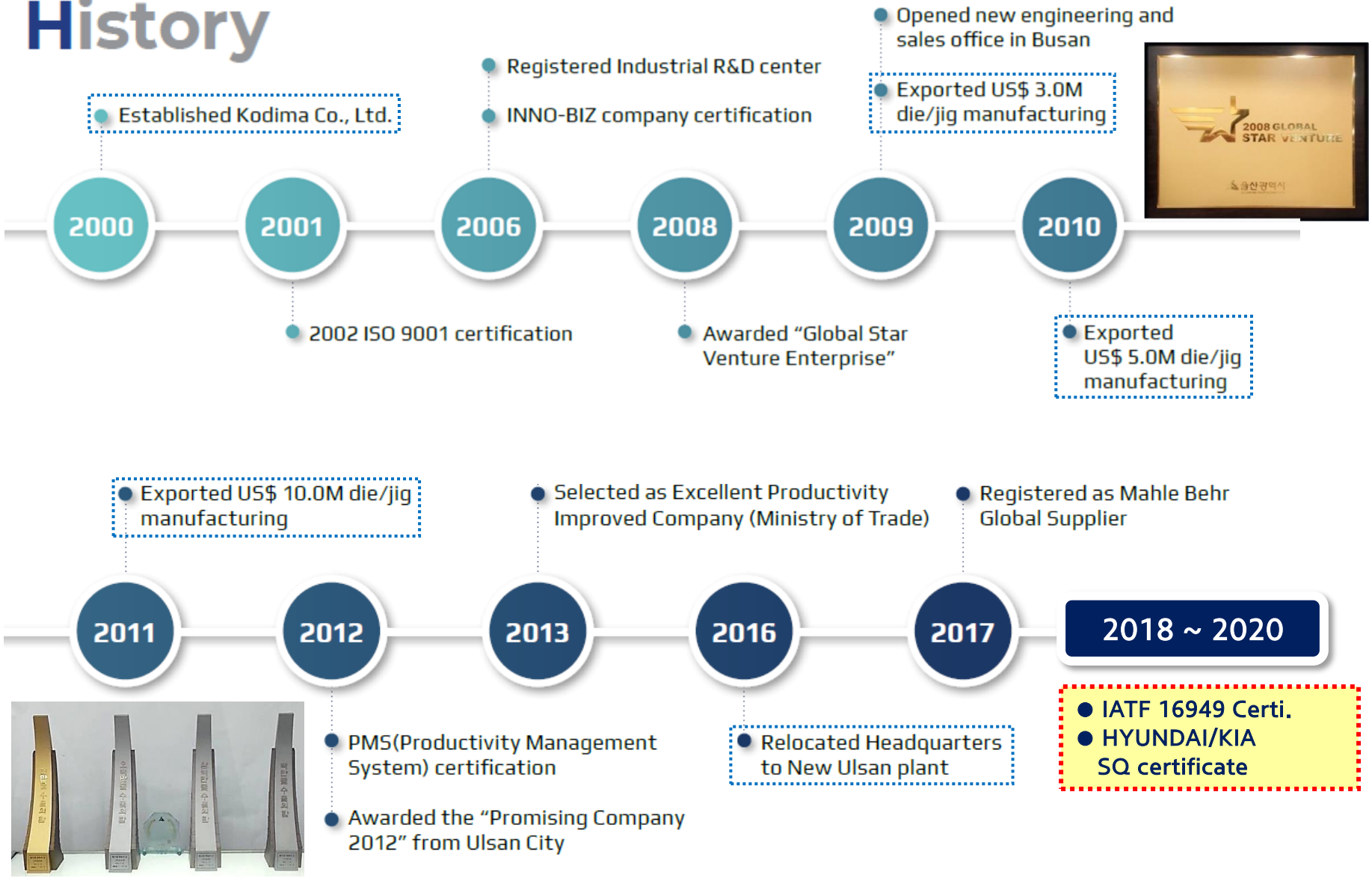
Company profile



| | |
|----------------------|---|
| Company Name | KODIMA CO., LTD. |
| Address | 30-5, Cheoyong Sanup 3-gil, Onsan-eup, Uljoo-goon, Ulsan, South Korea |
| CEO | KIM, SUNG-TAI |
| Found | December 1 st , 2000 |
| Capital | \$ 490,000 |
| Plant scale | Site: 8,822m ² (plant: 5,302.40m ² , Office: 1,482.88m ² , Etc 876.69m ²) |
| Main Item | Automotive parts (Press, Welding) |
| The personnel | 27 (Office: 16 / Plant: 11) |
| Contact | TEL : (052) 223-0987 FAX : (052) 223-0984 hzlee@kodima.com |

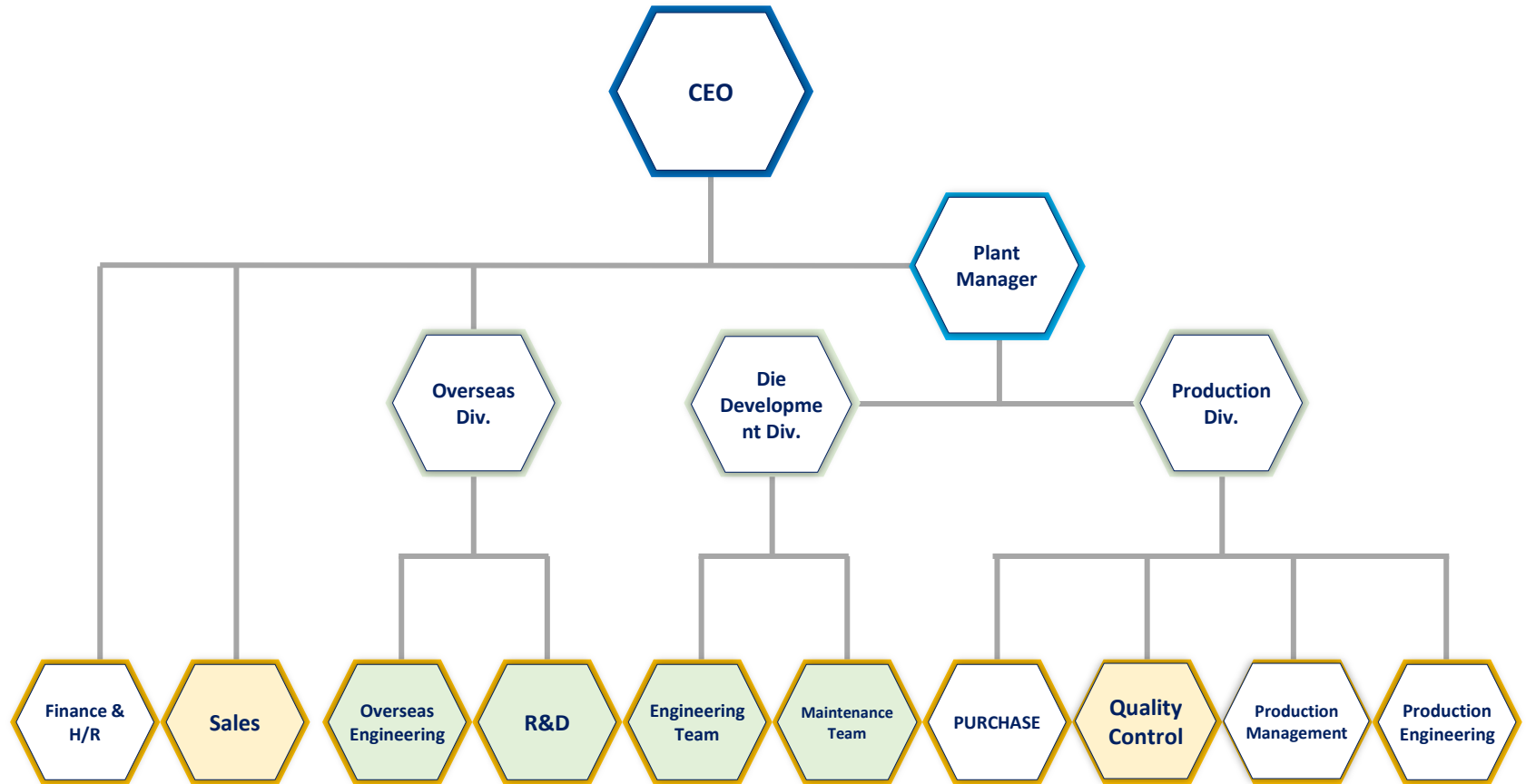
Company History

History



Organization Chart

Chart





Main Customers

Main Customers

Stamping

Korea



Japan



Die Manufacturing

N. America



S. America



Japan



ETC



Engineering

Korea



Japan



China

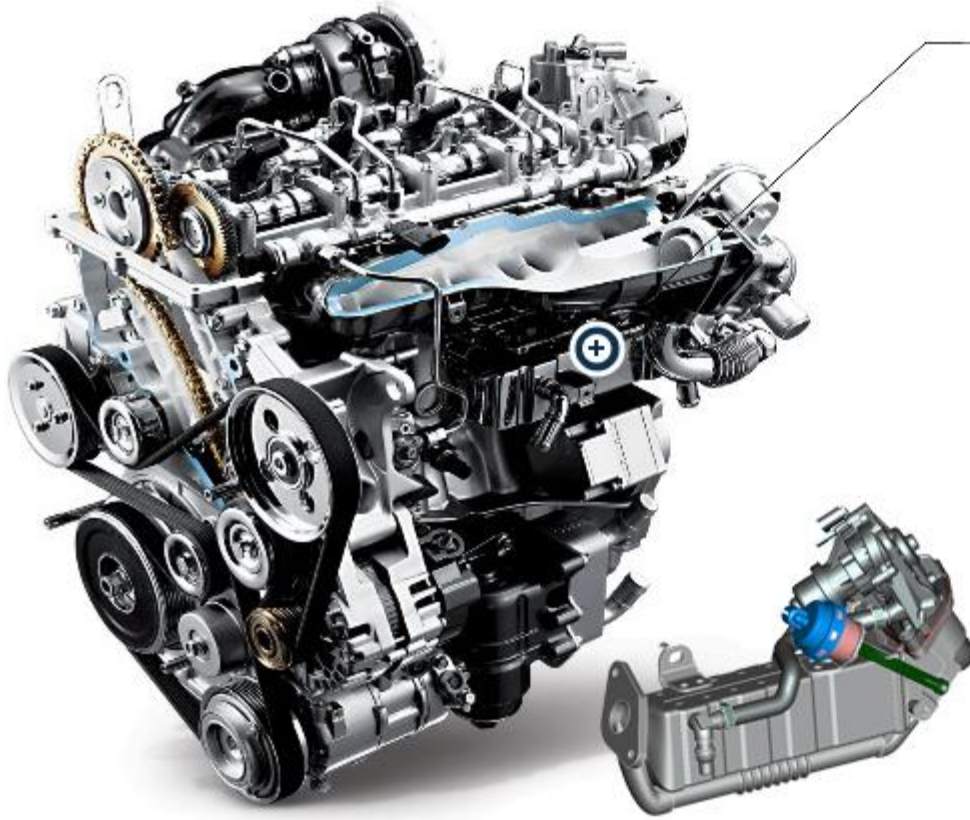


Europe



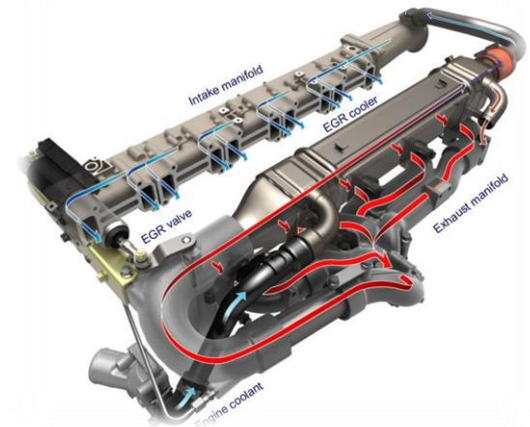
Main Items

Main Items – 1.EGR Cooler Parts



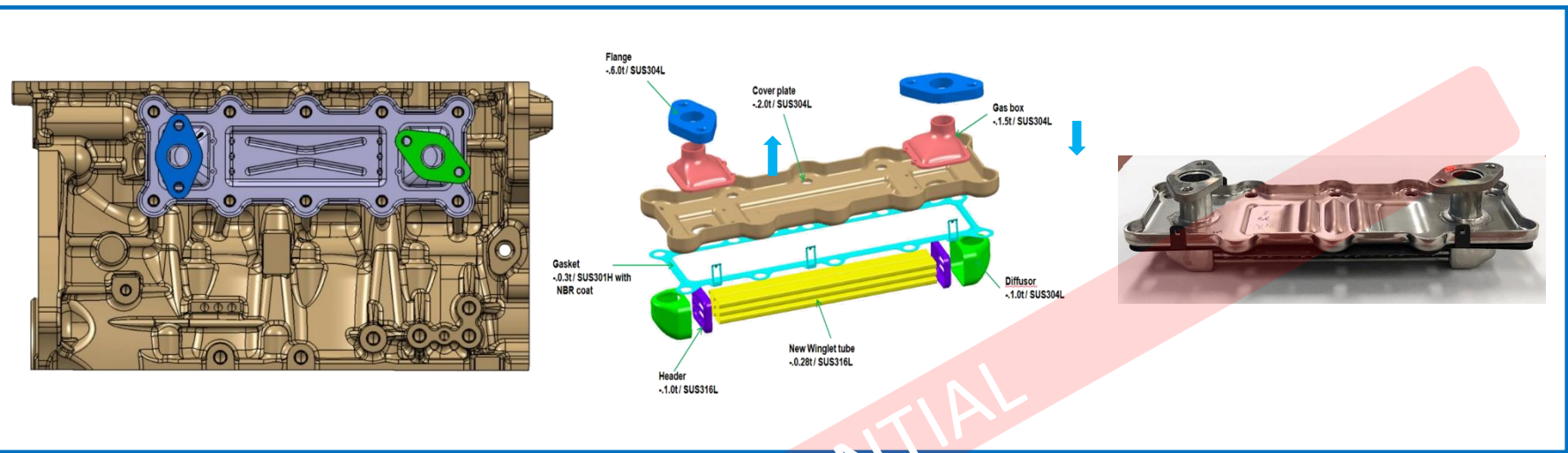
EGR Module

- Eco friendly automotive parts that reduce exhaust gas



Main Items – 1.EGR Cooler Parts

HMC, Nu-ENG EGR COOLER



COVER PLATE



DIFFUSOR



HEADER



STRAIGHT PIPE



FLANGE

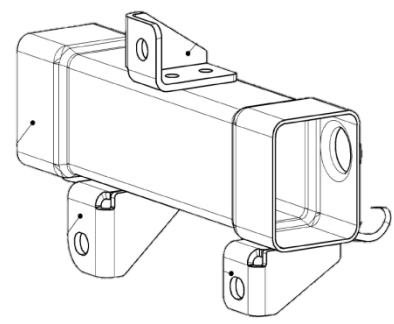


Main Items – 1.EGR Cooler Parts

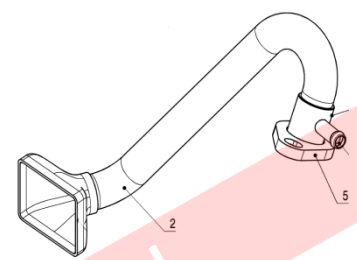
KAPPA 1.6L EGR COOLER



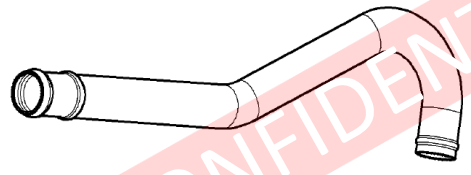
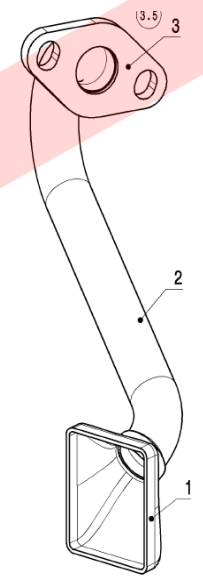
HOUSING ENT



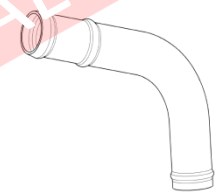
DIFFUSOR ENT(일반사양)



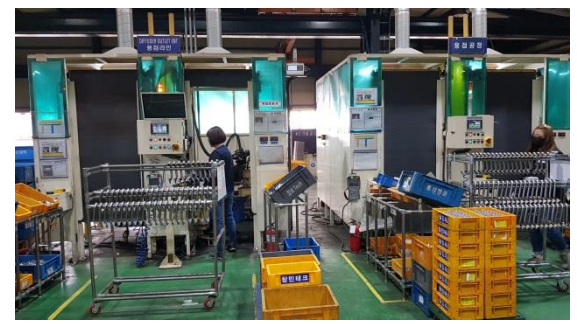
DIFFUSOR ENT(NIPPLE사양)



COOLANT OUT

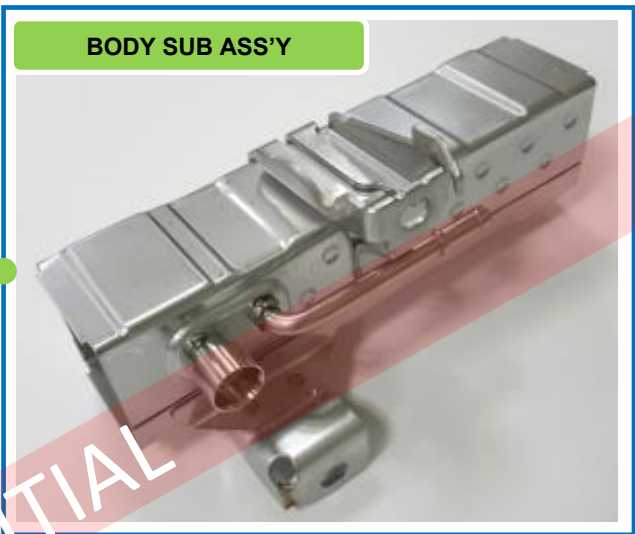


COOLANT IN



Main Items– 1.EGR Cooler Parts

B47D/NT BODY SUB ASS'Y



BODY TOP



BODY BOTTOM



UPR BRACKET



LWR BRACKET



EGR COOLANT OUT



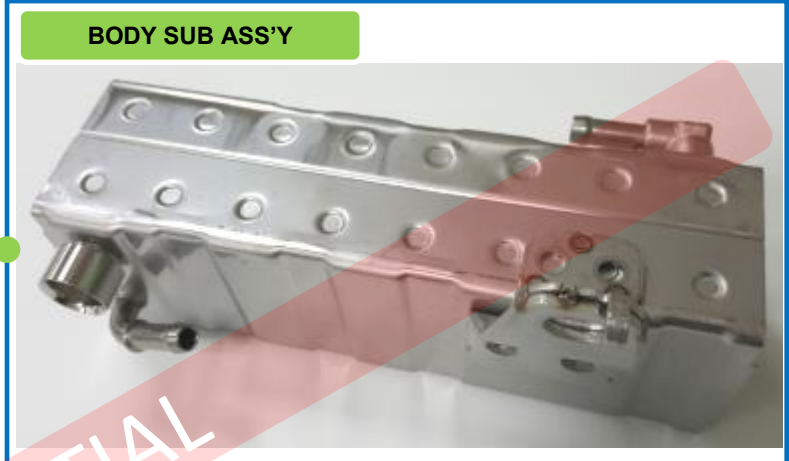
CONNECTOR



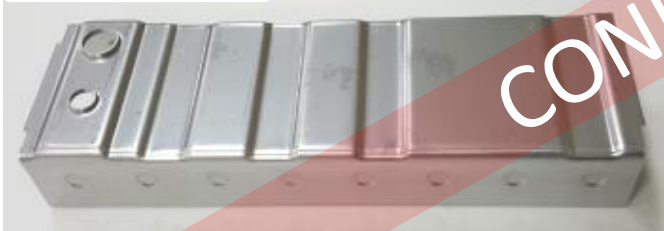
CONFIDENTIAL

Main Items– 1.EGR Cooler Parts

BX7C BODY SUB ASS'Y



BODY TOP



BODY BOTTOM



EGR COOLANT OUT



CONNECTOR



BRACKET ASS'Y



CONNECTOR ASS'Y

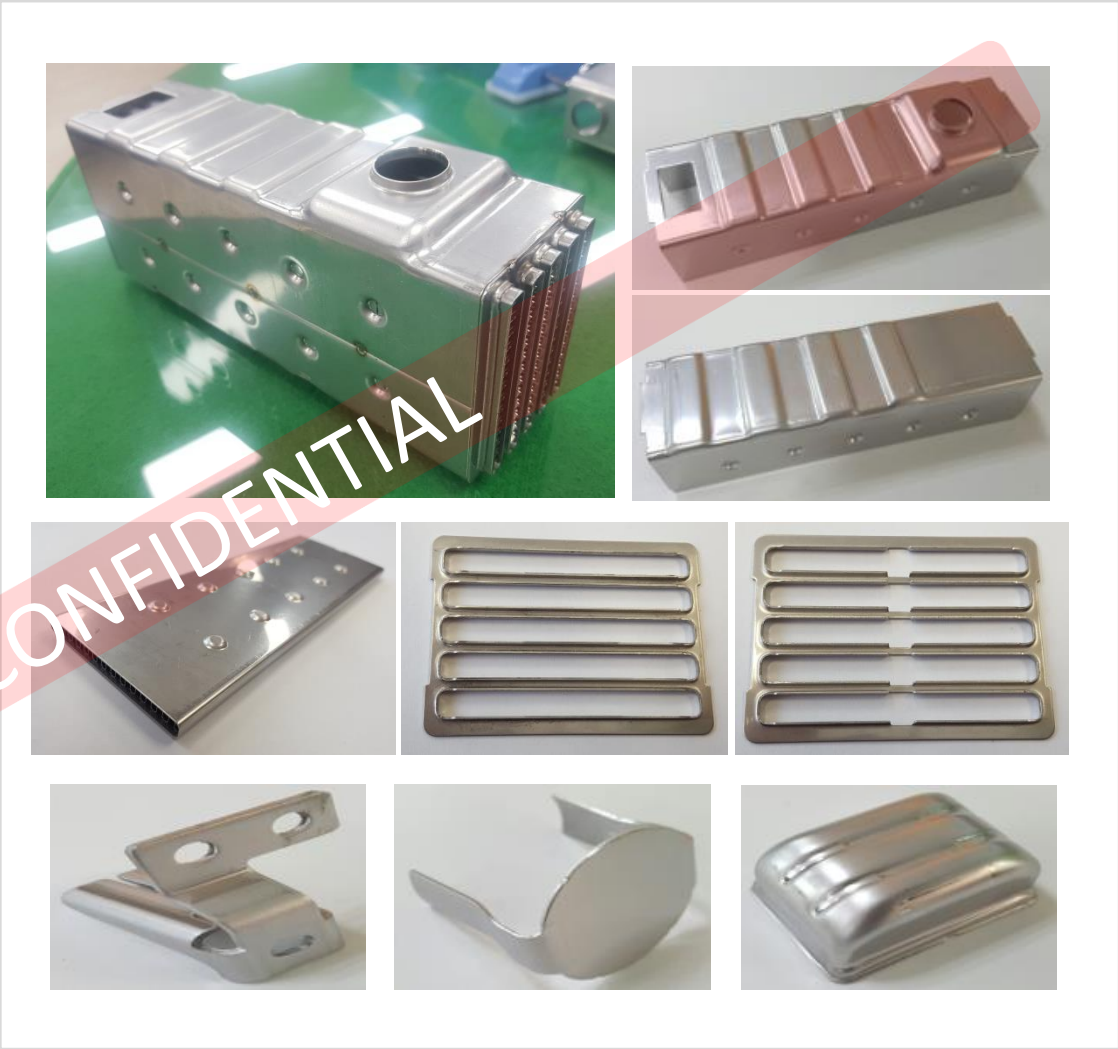


CONFIDENTIAL

Main Items– 1.EGR Cooler Parts

NANO

D16DTF (TIVOLI)



CONFIDENTIAL

Main Items– 2.Actuator Parts

MOTOR CAN

C2



- Annual Vol: 500,000/year
- USER : AAM
- SOP : 2018

MTA 556



- Annual Vol : 500,000/year
- USER : MAGNA
- SOP : 2020



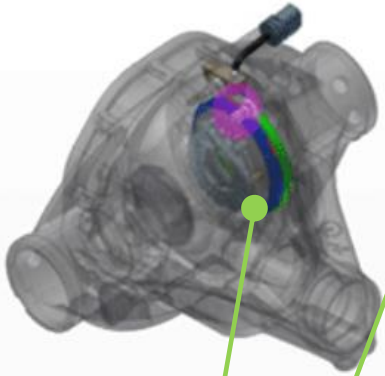
Main Items– 2.Actuator Parts

AAM, ADC925 ACTUATOR CAN SUB ASSY

⚙️ Electric Locking Differential Actuator

SUS304 Full-Hard

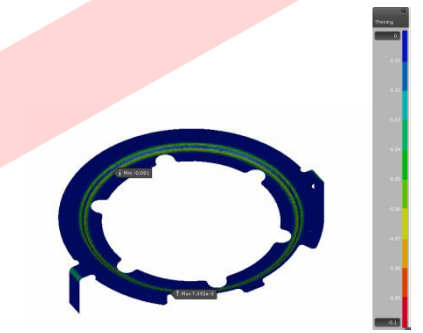
- Annual Vol : 10,000/year
- END USER : FORD
- SOP : 2018



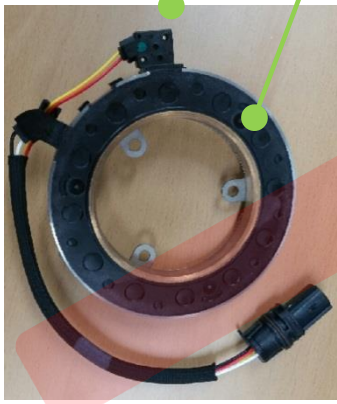
Can Ass'y(Laser Welding)



Can & Bushing



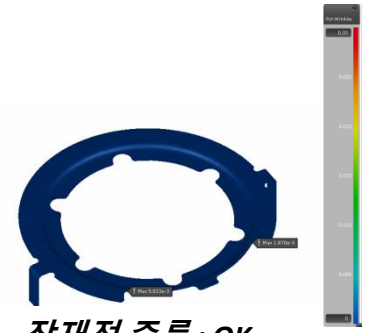
판두께 감소율 max 8% : OK
(limit:10%)



Can Ass'y



Retaining Bracket



잠재적 주름 : OK

Main Items – 3.Aluminum Parts

[R&D] AL Oil Pan Development

- 1. Material development: from SGACC 1.2t → to AL 1.6t
- 2. Size : 270 x 250 x 50



STEEL



ALUMINUM

Weight reduction and Analysis

· Weight reduction compared to steel oil pan(%) : **48.7%**
: Steel oil pan (664.76 g), Al oil pan(340.96 g)

| Sample | Steel Oil pan | Al Oil pan | Remark |
|------------|---------------|------------|--------|
| Sample – 1 | 664.77 g | 340.71 g | |
| Sample – 2 | 664.75 g | 341.06 g | |
| Sample – 3 | 664.76 g | 341.11 g | |
| Average | 664.76 g | 340.96 g | |



Steel Oil pan



Al Oil pan

Main Items – 3. Aluminum Parts

TOKYO ROKI



OIL COOLER MALE PLATE
Material: AL3003



OIL COOLER FEMALE PLATE
Material: AL3003



OIL COOLER FEMALE PLATE B
Material: AL3003

GM



BRACHET
Material: Al5182



BRACKET
Material: Al5182



BRACKET
Material: Al5182

CONFIDENTIAL

Main Items – 4.Sunshade Parts

GM C1UG



- 1. Annual Vol : 120,000대/년
- 2. Usage 1
- 3. SOP : 2019
- 4. type : progressive



SUNSHADE BRACKET



SUNSHANDE MASS



BRACKET A



BRACKET B



SANDWICH BRACKET

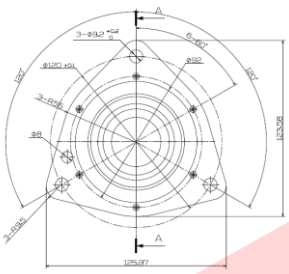
CONFIDENTIAL

Main Items – 5. Insulator Parts

FCA RU – LWR PLATE

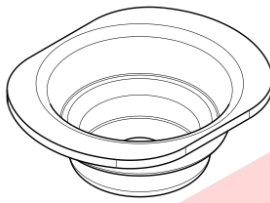


- 1. Annual Vol : 300,000/year
- 2. Usage 2
- 3. SOP : 2019
- 4. Equipment : Transfer



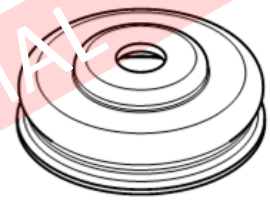
LOWER PLATE

SK3

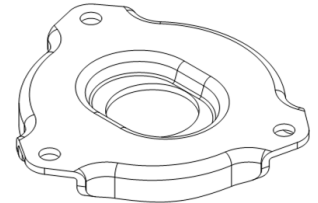


UPR CUP

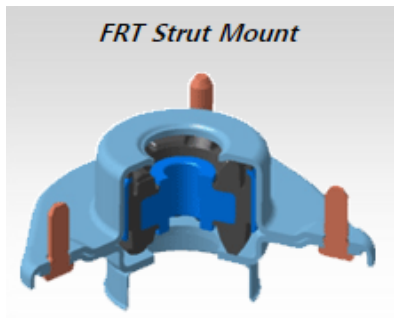
- 1. Under development
- 2. Annual Vol : 206,604/year
- 3. Usage 2
- 4. SOP : 2019
- 5. Equipment :
 - CUP : Progressive
 - PLATE : Transfer



LWR CUP



MAIN PLATE

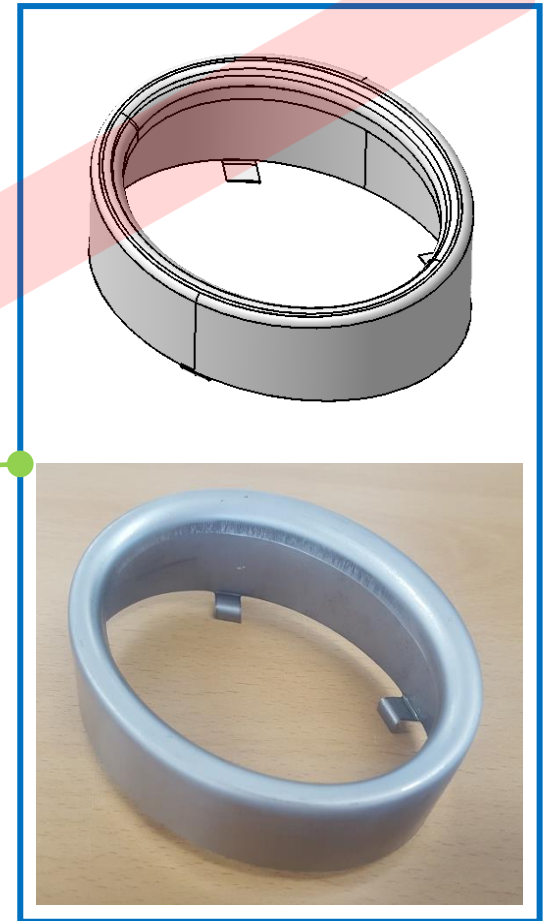


FRT Strut Mount

Automobile Insulator Parts, Engine mounting parts

EX BUMPER DIFFUSER OTR

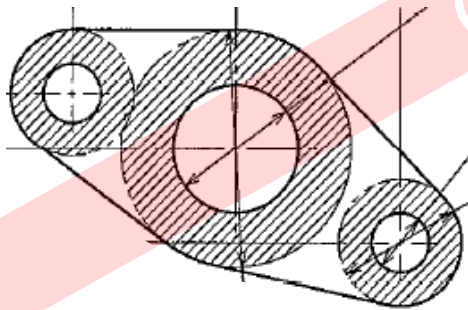
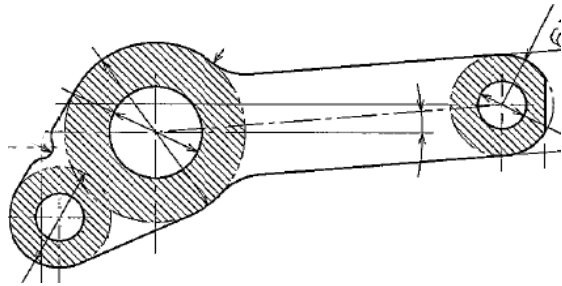
- Volume : 101,508/YR
- SOP : July 2017



** DIFFUSER, New Development by KODIMA
SUS material deep drawing part

KATAYAMA, FLANGE

- Production : 105,000/year
- SOP : Oct, 2017

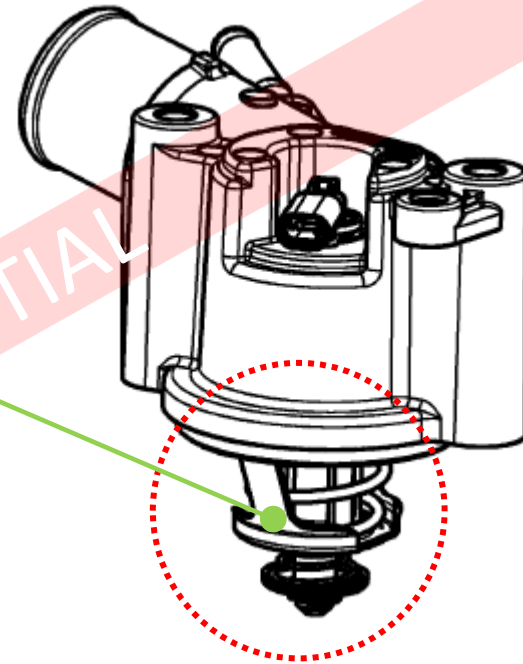


MAHLE BEHR, ISUZU THERMOSTAT

- Annual Vol : 112,000/year
- SOP : July 2019



THERMOSTAT
SUS material



Equipment

production

| NO | ITEM | STANDARDS | QUANTITY | PURPOSE | ACQUISITION | ORIGIN | MAKER |
|----|--------------------|-----------|----------|-------------|--------------|--------|---------|
| 1 | PRESS | 500TON | 1 | BLK/PROG | 2011 | KOREA | HWA I L |
| 2 | PRESS | 400TON | 1 | TRANSFER | 2011 | KOREA | HWA I L |
| 3 | PRESS | 200TON | 2 | PRODUCTION | 2016 | KOREA | KMC |
| 4 | PRESS | 150TON | 8 | PRODUCTION | 2016 | KOREA | KMC |
| 5 | PRESS | 800TON | 1 | TRANSFER | 2020(AUGUST) | KOREA | KMC |
| 6 | PRESS ROBOT | - | 6 | HANDLING | 2012 | JAPAN | YASKAWA |
| 7 | PRESS ROBOT | - | 6 | HANDLING | 2016 | JAPAN | YASKAWA |
| 8 | SPOT WELDING | 100KVA | 7 | WELDING | 2016 | KOREA | JOHUENG |
| 9 | TIG WELDING | DC TIG | 9 | TIG WELDING | 2014 | KOREA | HYOSUNG |
| 10 | HOIST | 10TON | 1 | - | 2016 | KOREA | |
| 11 | ELECTRIC FORKLIFT | 3TON/1TON | 1 / 1 | - | 2016 | KOREA | CLARK |
| 12 | Cleaning machining | | 1 | cleaning | 2016 | KOREA | |



Measuring Equipment

| NO | ITEM | STANDARDS | Q'TY | YEAR | MAKER |
|----|--------------------------|------------------|------|------|------------|
| 1 | CMM | 1,200x900x600mm | 1 | 2016 | MITUTOYO |
| 2 | SHAPE MEASURING MACHINE | C-3200 | 2 | 2015 | MITUTOYO |
| 3 | VISION MEASURING MACHINE | 0.01mm,0.8mm | 1 | 2018 | LONG -TIAN |
| 4 | HEIGHT GAUGE | 600mm | 4 | 2011 | MITUTOYO |
| 5 | VERNIER CALIPERS | 150/200mm | 5 | 2018 | MITUTOYO |
| 6 | TEST INDICATOR | 0.01mm,1.0mm | 2 | 2016 | MITUTOYO |
| 7 | DIAL INDICATOR | 0.1mm, 10mm | 1 | 2019 | MITUTOYO |
| 8 | 나사 플러그 게이지 | M8*P1.25/M6*P1.0 | 2 | 2018 | OJIYAS |
| 9 | 광조도계 | 0~200,000LUX | 1 | 2016 | BLUEBIRD |
| 10 | 자력측정기 | - | 1 | 2017 | KANETEC |
| 11 | 전기식 지시저울 | 0~210g, 0.0001g | 1 | 2017 | OHAUS |
| 12 | MICROMETER | [0~25] × 0.01 | 1 | 2015 | MITUTOYO |
| 13 | 촉점식 조도 측정기 | - | 1 | 2015 | MITUTOYO |
| 14 | 디지털 현미경 | 200X, 8 μ m | 1 | 2018 | INSIZE |
| 15 | 디지털 산도 측정기 | 0.00~14.00pH | 1 | 2019 | CAS |
| 16 | 가압력계 | SP-231N | 1 | 2019 | Spotron |
| 17 | 디지털 웰드 체커 | SP-3110 | 1 | 2019 | Spotron |
| 18 | 초음파 세정기 온도계 | 초음파/열풍/중류 | 1 | 2015 | Autonics |
| 19 | M9912 전류/저항 측정계 | 300/1000A | 1 | 2015 | MASTECH |
| 20 | 디지털 압력 게이지 | 0 ~ 100 Mpa | 1 | 2018 | TIANXIANG |
| 21 | CUTTING MACHINE | 305x1.5Tx25.4 | 1 | 2019 | (주)나노텍 |
| 22 | POLISHING MACHINE | 800x560x1000 | 1 | 2019 | (주)나노텍 |



Certifications

The word "Certifications" is centered on a white background. It is surrounded by decorative wavy lines in shades of blue and grey that curve around the text from the top, bottom, and sides.

Certifications



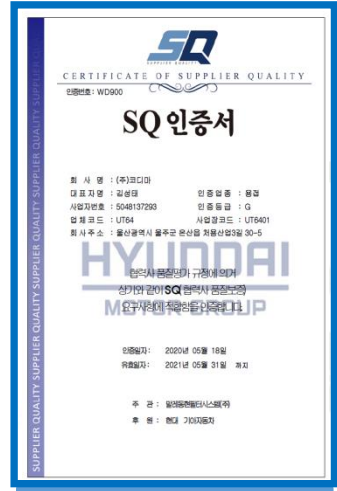
IATF 16949:2016



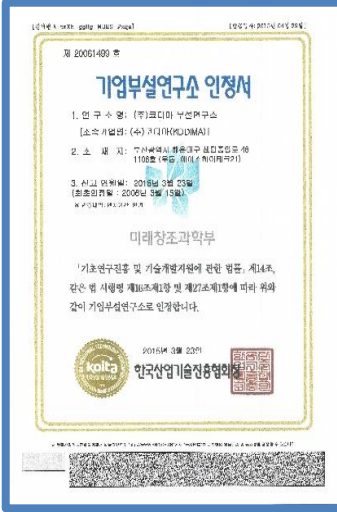
ISO-9001:2009



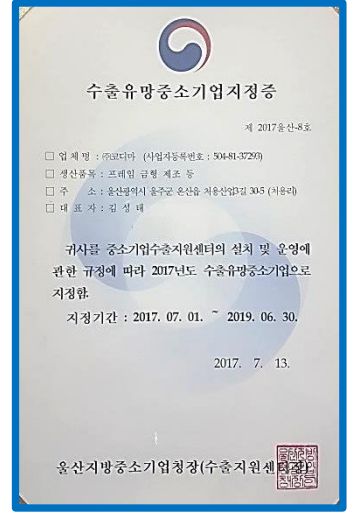
ISO-14001:2009



HyUNDAI/KIA WELDING SQ



R&D CENTER



Appointment as Prospective Export Business



MAIN-BIZ



INNO-BIZ

Tooling patent



| 구분 | 순번 | 명칭 | 출원번호 | 출원일자 | 등록번호 | 등록일자 | 특허권자 | 발명자 |
|----------|----|--------------------------------|-------------------|------------|---------------|------------|---------------------|----------|
| 특허 등록 | 1 | 오일팬 등 용기형상제품의 제작방법 | 제10-2018-0018159호 | 2018.02.14 | 제10-1855929 | 2018.05.02 | 코디마 | 김성태 |
| | 2 | 오일팬의 드레인너트 설치구조 및 그 설치방법 | 제10-2017-0112641호 | 2017.09.04 | 제10-1801855호 | 2017.11.21 | 코디마, 동일메탈 | 박성룡 |
| | 3 | 트리밍 장치 | 제10-2018-0082309호 | 2018.07.16 | 제10-1923617호 | 2018.11.23 | 코디마 | 김성태 |
| | 4 | 코일하우징의 제작방법 | 제10-2019-0005130호 | 2019.01.15 | 제10-1952668호 | 2019.02.21 | 코디마 | 김성태 외 1명 |
| | 5 | 자동차 배기가스 순환장치용 일체형 버링플레이트 제조방법 | 제10-2016-0076945호 | 2016.06.12 | 제10-2007030호 | 2019.07.29 | 코디마 | 김성태 |
| | 6 | 플레이트 버링방법 | 제10-2016-0128882호 | 2016.10.06 | 제 10-1860035호 | 2018.05.02 | 신성산업, 경북하이브리드 부품연구원 | 김성태 윤재정 |
| 특허 출원 | 7 | EGR 클러용 하우징의 성형방법 | 제10-2018-0079702호 | 2018.07.10 | - | - | 코디마 | 김성태 |
| | 8 | 자동차 액츄에이터용 아마츄어 제작방법 | 제10-2019-0081820호 | 2019.07.08 | - | - | 코디마 | 김성태 |
| | 9 | 자전거 변속기용 변속 디스크의 제조방법 | 제10-2014-0147144호 | 2014.10.28 | - | - | 신성산업, 경북하이브리드 부품연구원 | 김성태 윤재정 |

**THANK YOU FOR YOUR
ATTENTION**

