

GMB KOREA

Corporate Profile

Pioneering the future of motorization
Aiming for sustainable global company.

www.gmb.co.kr

Global Automotive Leader
in Eco-friendly Parts
and Green Solutions



Your success is our Future.

History

GMB Korea has been building the history of the global automobile industry together with its customers for 45 years.

1979

1943 (GMB Group)

Major Products

A total of about 21,000 products are being manufactured with green technologies by the group worldwide.

21,000

 Items

Customers

GMB Korea collaborates with major OEMs such as Hyundai Motor Group, GM, Renault, and Stellantis, as well as a variety of global top-tier companies like Hyundai Transys, Hyundai WIA, BorgWarner, Korea Movenex, Namyang Nexmo, and Mando on its journey of growth in the mobility industry.

OEM

13

 Companies

Tier 1

57

 Companies

Aftermarket

77

 Companies

GMB
Your success is our Future

GMB Korea delivering value beyond customers' expectations with the best technology and quality

A solution for the future of green mobility from internal combustion engines to hybrid and electric vehicles

Since its founding in 1979, GMB Korea has been a global company making history in the global automotive industry and exporting its products to over 35 countries today based on passion for technology and spirit of challenge for the future.

GMB Korea has contributed immensely to noise reduction, improved fuel efficiency, and durability of vehicles by developing and producing parts for vehicle powertrains that demand ultra-precision and high-level functions. Nowadays, GMB Korea strives to solidify its green vehicle technology through the development of electric parts and thermal management technology.

GMB Korea will drive the future of green mobility through the precision and innovation of its products.

To turn these dreams of the future into reality, we will achieve the best technology and products, make investments in advance, and innovate ceaselessly to become the best mobility company that provides customers with value beyond their expectations.

Corporate Profile

GMB Korea,
the No. 1 most reliable global mobility
company with the best products



Changwon Plant 1



Changwon Plant 2



Seosan Plant



GMB Agtech



GMB Elpis

Corporate Profile

We provide our customers
with **innovative technology**
and **perfect products**.

GMB Korea is leading future mobility with electrification technology and eco-friendly innovation, and is creating a sustainable future with the best technology and innovation



GMB Korea, leading the cutting-edge
technology of green mobility and designing
the **future of sustainable green mobility**

Company Data (2024)



Establishment

1979



Sales

KRW

659,817 (separate)
million



Assets

KRW

519,187 (separate)
million



Investments in R&D

KRW

17,632 million



Worksites

14 locations

HQ and Subsidiaries	5
Overseas Subsidiaries	7
R&D Center	1
Overseas Sales Office	1

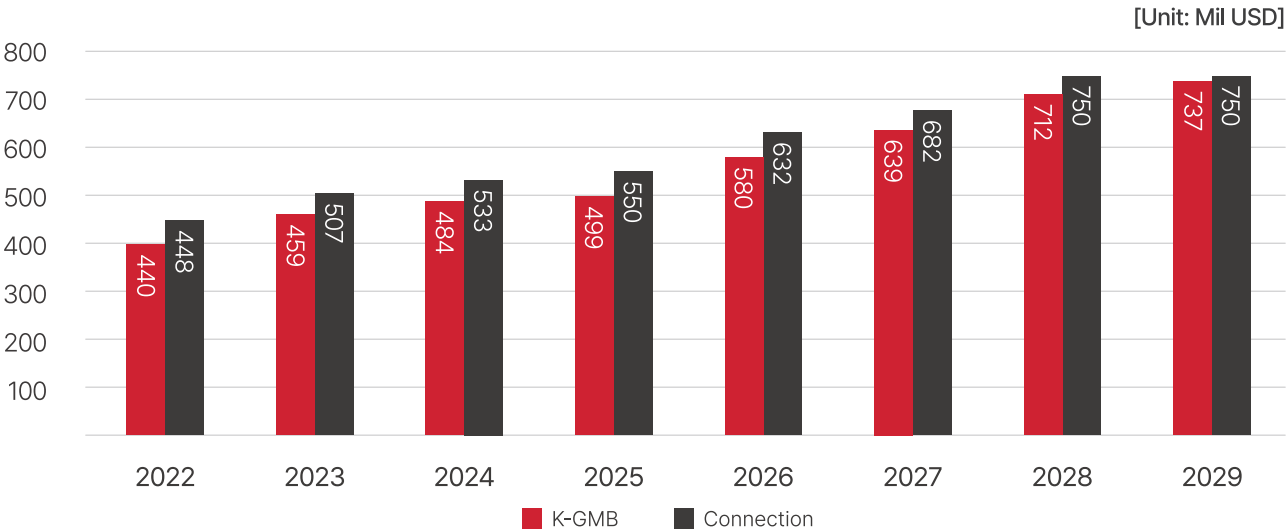


Employees

725

Business Overview

01 2022 ~ 2029



02 2024 Sales Details

[Unit: Mil USD]

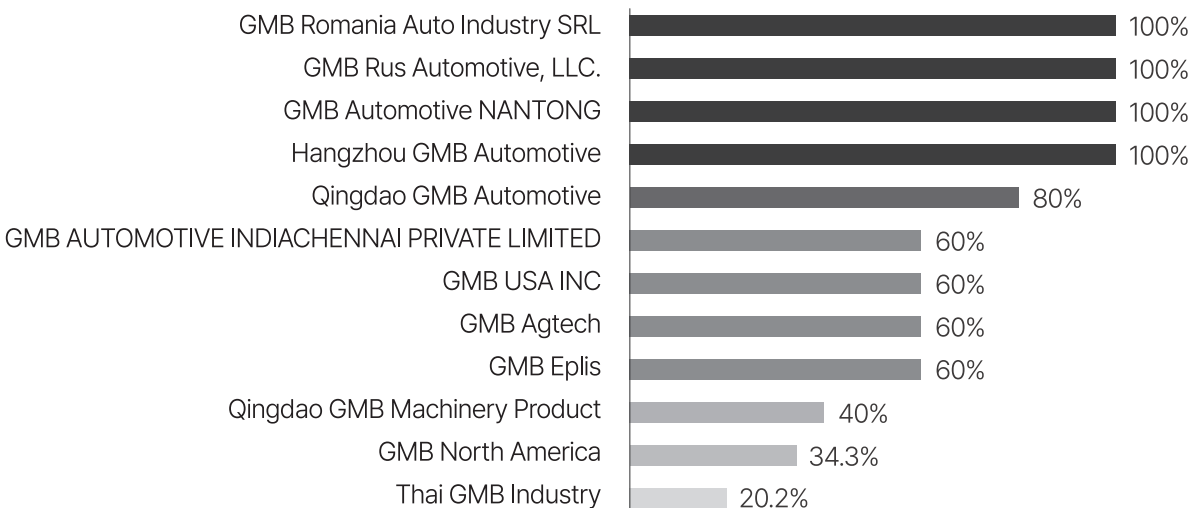
Category	Sales	Ratio
OEM	158	32.6%
Tier1	233	48.2%
Aftermarket	51	10.5%
GMB Group	33	6.9%
Others	9	1.8%
Total	484	100.0%

03 2024 Sales Portion by Product

[Unit: Mil USD]

Category	Sales
Green Energy Parts	126
Transmission Parts	123
Chassis Parts	89
Engine Parts	78
Others	68
Total	484

04 Investment



05 2024 Affiliated Companies

Country	Company	Sales [Unit: USD]
Japan	GMB Corporation	113
South Korea	GMB Agtech	45
	GMB Elpis	39
China	QINGDAO GMB Automotive	41
	HANGZHOU GMB AUTOMOTIVE CO.,LTD	20
	GMB Automotive (NANTONG) CO.,LTD	18
	Qingdao GMB Machinery Product Co.Ltd	42
Thai	Thai GMB Industry Co.Ltd	31
Romania	GMB ROMANIA AUTO INDUSTRY SR	21
Russia	GMB Rus Automotive, LLC.	3
USA	GMB USA INC	2
	GMB North America Inc	47
India	GMB AUTOMOTIVE INDIACHENNAI PRIVATE LIMITED	0

06 Stock Holders

[Unit: Percentage]

Country	Ratio
GMB Corporation	54.37%
Individual Stockholders	45.63%
Total	100%

07 2024 Sales Portion by Industry

[Unit: Mil USD]

Country	Sales	Ratio
Domestic	190	2.9%
Export	294	4.5%
Total	484	7.3%

08 Plants & Employee

Plant	Land	Building	Employee
Plant 1 in Changwon	32,015m ²	41,780m ²	317
Plant 2 in Changwon	35,605m ²	32,649m ²	384
Seosan Plant	17,167m ²	23,108m ²	24
Total	84,786m ²	97,536m ²	725

History

Foundation and Joint Venture with GMB Japan

Will Make the Way

1979

Continuous R&D and Expansion of Sales Network

Pioneering the World

1984

- | | | |
|-------------|-----------|--|
| 1979 | 02 | Founded Korea GMB Industrial Co., Ltd |
| 1980 | 01 | Made joint investments with GMB Japan |
| | 12 | Introduced capital goods for universal joint machines |
| 1984 | 06 | Designated as a promising Small and Medium Enterprise (SME) by the Industrial Bank of Korea |
| 1987 | 06 | Introduced capital goods for water pump and fan clutch manufacturing machines |
| | 09 | Introduced the ball bearing manufacturing technology (technical agreement with Koyo Seiko of Japan) |
| 1990 | 05 | Built Changwon Plant 2 |
| 1992 | 03 | Received a presidential citation for fulfilling tax obligations on "Taxpayer's Day" |
| | 06 | Received the silver prize in the Industrial Peace Awards (labor-management harmony, productivity improvement, from the Governor of Gyeongsangnam-do) |
| 1994 | 02 | Celebrated the 15th anniversary of Korea GMB Industrial Co., Ltd ., received a plaque of appreciation from Hyundai Motor Company |
| 1995 | 10 | Established the R&D Center |
| 1996 | 11 | Made capital investments in Qingdao GMB Machinery Product Co., Ltd. in China |
| 1998 | 11 | Received the bronze prize at the Korea Industrial-Tech Show (from the Ministry of Commerce Industry and Energy) |
| 2000 | 05 | Received the presidential citation for contributions to the promotion of labor-management cooperation on Workers' Day |
| | 11 | Won the \$30 Million Export Tower Award on "Trade Day" |
| 2003 | 11 | Won the \$50 Million Export Tower Award on "Trade Day" |
| 2005 | 01 | Changed the name of the company to GMB Korea Corp. |
| | | Made capital investments in Thai GMB Industry Co., Ltd |
| | 09 | Received the prize of merit for productivity innovation and the Gold Tower Order of Industrial Service Merit at the National Productivity Awards (from the Ministry of Employment and Labor) |
| | 11 | Won the \$70 Million Export Tower Award on "Trade Day" |

Expansion of Network and Global Production

Running Toward a Dream

1998

Global Expansion and Production of Green Energy Parts

Rising Toward a New Way

2008

- | | | |
|-------------|----|--|
| 2006 | 08 | Founded Qingdao GMB Automotive Co., Ltd. in China |
| 2008 | 12 | Won the \$100 Million Export Tower Award on "Trade Day" |
| 2009 | 01 | Built Seosan Plant |
| 2010 | 08 | Selected as a company with outstanding labor-management culture |
| 2012 | 11 | Listed on the stock market |
| 2013 | 02 | Established Hangzhou GMB Sales Office in China |
| | 04 | Founded GMB Agtech |
| | 09 | Selected as an Excellent quality partner of GM Korea |
| | 12 | Founded Nantong GMB in China |
| 2014 | 02 | Established Anyang R&D Center |
| | 05 | Founded GMB Russia |
| | | Founded GMB Romania |
| 2015 | 00 | Selected as an Excellent partner of PSA (Peugeot Citroën Group) |
| | 01 | Obtained the Quality 5 Star grade from Hyundai Motor Group and Kia |
| 2016 | 04 | Established the China Sales Office |
| 2017 | 03 | Received the Gold Tower Order of Industrial Service Merit |
| | 09 | Founded GMB Elpis |
| | 12 | Won the \$200 Million Export Tower Award on "Trade Day" |
| 2019 | 02 | Celebrated the 40th anniversary |
| 2020 | 00 | Built a new GMB plant in Romania |
| | 07 | Established the after-sales business |
| 2021 | 03 | Named Supplier of the Year 2021 by Hyundai Transys |
| 2023 | 01 | Established GMB-USA |
| 2024 | 04 | Established GMB India |
| | 08 | Newly built the R&D Center |

Global Network

GMB Korea's global influence is expanding steadily, embracing new frontiers

GMB Korea's global influence expands steadily, embracing new frontiers.

Production Sites **R&D Centers** **Sales Offices**

15

1

6



📍 GMB Korea
(Changwon Plant 1)



📍 GMB Korea
(Changwon Plant 2)



📍 GMB Korea
(Seosan Plant)



📍 R&D Center
(Changwon)



📍 R&D Center
(Anyang)



📍 GMB Elpis



📍 GMB Agtech



📍 GMB Corporation(Yao)



📍 GMB Corporation(Nara)



📍 Japan Office(Sales & Marketing)



📍 GMB USA INC



📍 U.S. Office



📍 GMB NORTH AMERICA INC



GMB Korea, an Energetic Movement Leading the Future of Green Mobility

**GMB Korea, Energetic movement
for Green Mobility Era.**

Product Line-up

Green Energy Parts

- HEV**
- EV**
- FCEV**

Transmission Parts

Chassis Parts

Engine Parts

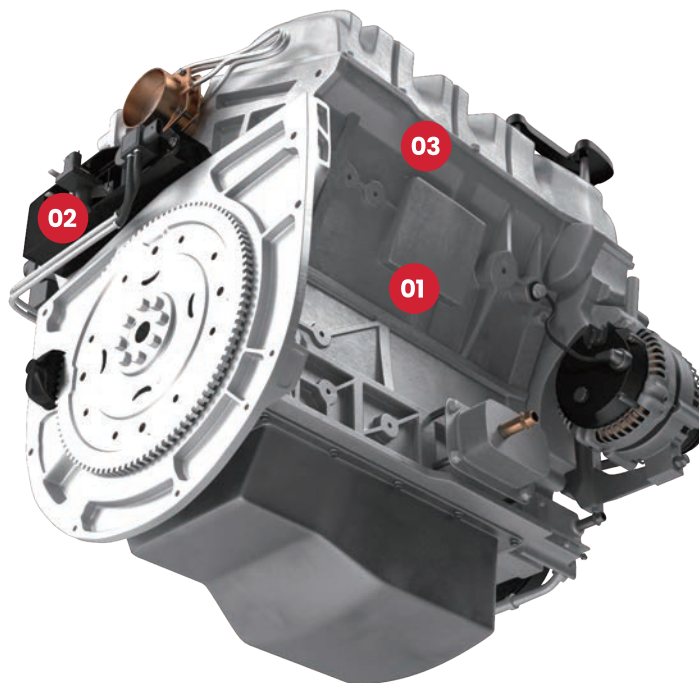
Aftermarket

Your success is our Future.



Product

GREEN ENERGY PARTS **HEV**

**Line-up**

- 01** Electric Water Pump
- 02** Integrated Thermal Management Module
- 03** Active Purge Pump



**ELECTRIC
WATER PUMP**



**INTEGRATED THERMAL
MANAGEMENT MODULE**



**ACTIVE
PURGE PUMP**



Key Product



ELECTRIC WATER PUMP

HEV

EV

FCEV

Integrated Thermal Management Module

Controller Integral Pump

Lightweight Structure

Characteristics Circulates coolant to cool down electrical parts, batteries, fuel cell stacks, etc. of green vehicles that use batteries as power source

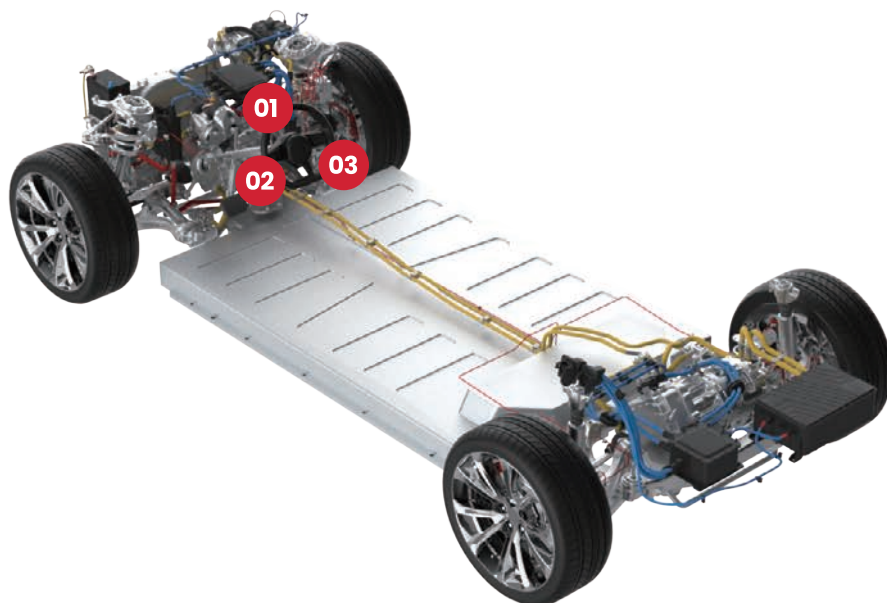
Major features An electric water pump is an essential part in thermal management systems of HEVs, EVs, and FCEVs, circulating coolant to maintain a specific temperature in countless parts of a vehicle for them to function correctly and to enable use for a long time.

In particular, an electric water pump for FCEVs circulates coolant to deal with the heat generated during a chemical reaction of hydrogen and oxygen in fuel cell stacks; thus preventing excessive temperature of the system.

In addition, our stack-cooling electric water pumps (CSP) for FCEVs are the world's first-ever mass-produced products embedded with a high-voltage controller as a core technology of a fuel cell thermal management system.

Product

GREEN ENERGY PARTS **EV**

**Line-up**

01 Electric Water Pump

02 Electric Oil Pump

03 Coolant Hub



**ELECTRIC
WATER PUMP**



**ELECTRIC
OIL PUMP**



**COOLANT
HUB**



Key Product



ELECTRIC OIL PUMP

EV

ICE

Motor Cooling System

Cryogenic Driving

Low-noise Structure

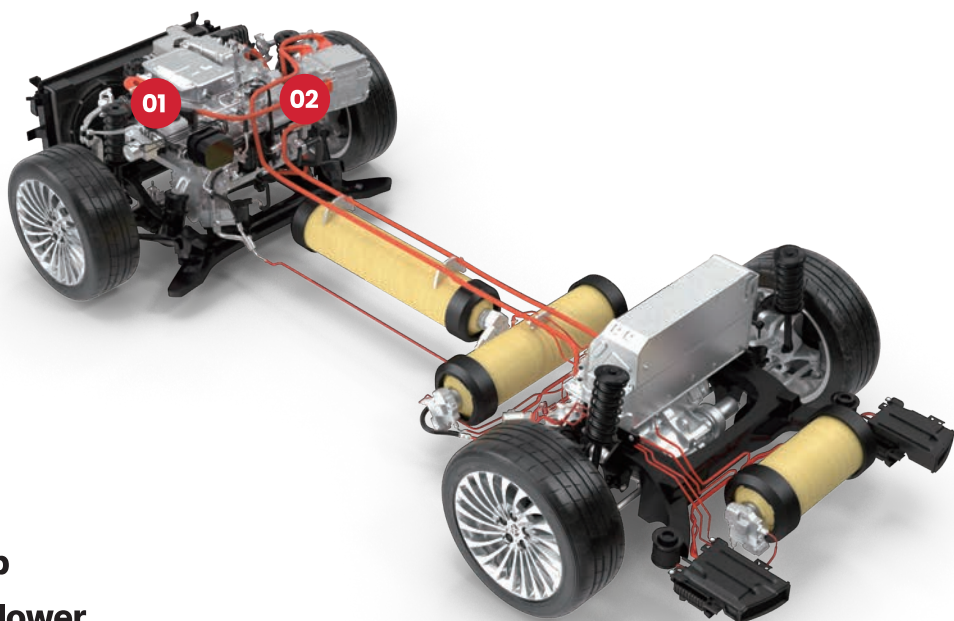
Characteristics Improves the efficiency of EVs through electronic control and prevents the performance degradation of vehicles even in high-temperature situations

Major features The following are the methods by which electric oil pumps for lubrication, thermal control, enhancement of power efficiency, and smooth transmission and driving are applied for each vehicle type (EV, ICE):

- ICE: Internal combustion engine vehicles currently employ ISG (Idle Stop & Go) to meet environmental regulations as the technology to reduce fuel consumption and exhaust gas emission by automatically stopping the engine when a car comes to a stop.
During this process, the electric oil pump gets supplied with power from batteries to activate and maintains the minimum pressure needed for transmission. This helps in smooth driving when the car restarts after the completion of ISG.
- EV: For EVs where energy efficiency (ratio of distance moved per power consumed) is critical for eco-friendliness, the electric oil pump maintains suitable levels of oil supply and driving motor temperature for cooling the driving motor in EVs to improve energy efficiency.
It is also necessary to reduce the power consumption of the oil pump itself to enhance energy efficiency, for which the pump, motor, and control technology serve key roles.

Product

GREEN ENERGY PARTS **FCEV**

**Line-up**

- 01** Electric Water Pump
- 02** Fuel Recirculation Blower



**ELECTRIC
WATER PUMP**



**FUEL RECIRCULATION
BLOWER**



Key Product



FUEL RECIRCULATION BLOWER

FCEV

Hydrogen Fuel Supply System

Integral Heater

Channel Type Impeller

Characteristics Recirculates hydrogen—which is not electrolyzed in fuel stacks in a fuel cell system—and then supplies it to fuel stacks; thus maximizing fuel efficiency

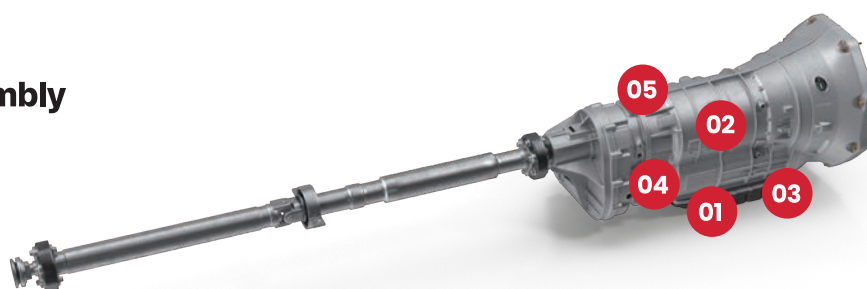
Major features A fuel recirculation blower increases the rate of use of hydrogen in a fuel cell system to maximize fuel efficiency and maintains the hydrogen concentration in fuel cell stacks at a uniform level to enable the discharge of vapor and nitrogen generated during the reaction process.

Product

TRANSMISSION PARTS

Line-up

- 01** Valve Spool
- 02** Pinion Shaft
- 03** Valve Body Assembly
- 04** Piston
- 05** Sleeve



**VALVE
SPOOL**



**PINION
SHAFT**



**VALVE
BODY ASSEMBLY**



PISTON



SLEEVE



Key Product



VALVE SPOOL

HEV

ICE

Automatic Transmission

Precision Processing

Characteristics Changes the flow path of oil in a vehicle's transmission to control the pressure

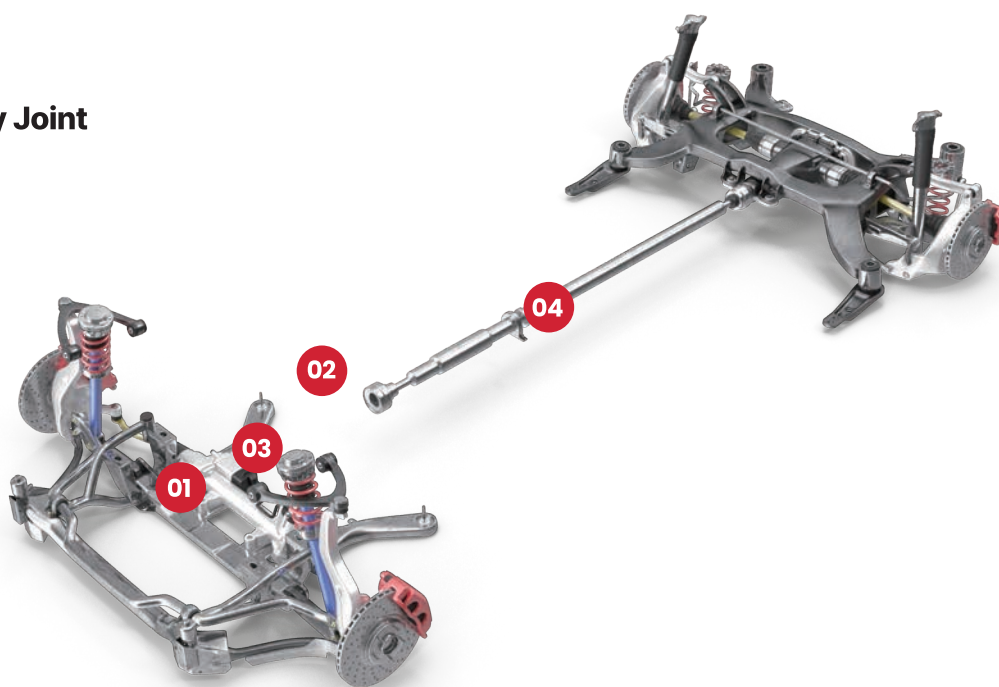
Major features A valve spool is a part assembled in the valve body inside an auto transmission and applied to hydraulic control mechanisms. An oil pump is activated to change the flow path of oil from an oil fan to control its pressure.

Product

CHASSIS PARTS

Line-up

- 01** Constant Velocity Joint
- 02** Cage
- 03** Steering Joint
- 04** Universal Joint



**CONSTANT
VELOCITY JOINT**



CAGE



**STEERING
JOINT**



**UNIVERSAL
JOINT**



Key Product



CONSTANT VELOCITY JOINT

HEV

ICE

EV

Power Transfer Unit

Characteristics Delivers power all the way to the wheels and absorbs the changes in angle by steering and changes in vibrations of the suspension

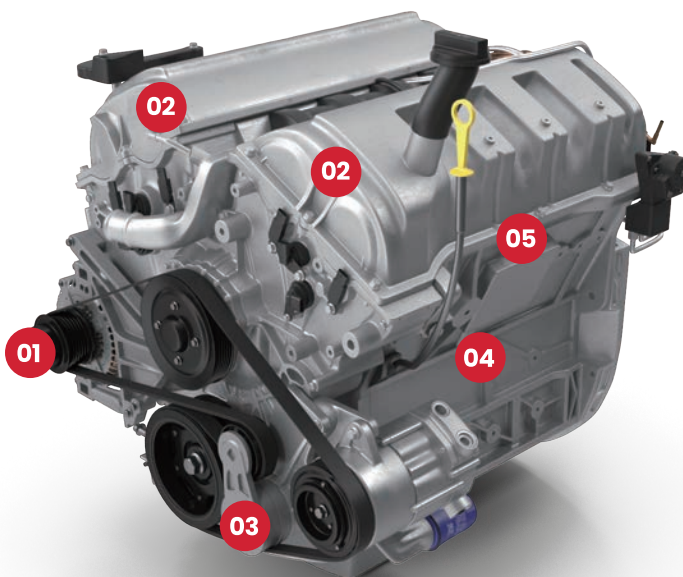
Major features A constant velocity joint is assembled on a drive shaft to deliver engine power from the transmission to wheels and performs angular and axial movements in specific domains during driving.

Product

ENGINE PARTS

Line-up

- 01** Water Pump
- 02** Variable Cam Timing
- 03** Auto Tensioner
- 04** Oil Pump
- 05** Turbo Charge Parts
- 06** Tensioner Idler Bearing
- 07** Fan Cluth



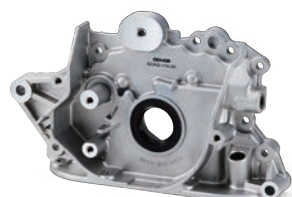
**WATER
PUMP**



**VARIABLE
CAM TIMING**



**AUTO
TENSIONER**



**OIL
PUMP**



**TURBO
CHARGER PARTS**



**TENSIONER
IDLER BEARING**



**FAN
CLUTH**



Key Product



WATER PUMP

ICE

Engine Cooling System

Volute Shape

Characteristics Installed in the engine room, rotates the bearing through a pulley to circulate the coolant with an impeller

Major features A water pump sends coolant refrigerated in a radiator to inside the engine to keep it at a specific temperature.



VARIABLE CAM TIMING

HEV

ICE

Valve Timing System

Precision Processing

Characteristics Variably adjusts the timing of intake and exhaust valves for the improvement of engine performance and fuel efficiency

Major features As a core precision part applied to a continuous variable camshaft timing, a variable cam timing variably adjusts the timing intake and exhaust valves.

Product

AFTERMARKET

More Info



ENGINE PARTS

Overrunning Alternator Pulley
ENGINE DRIVE SYSTEM



Timing Belt Kit
ENGINE DRIVE SYSTEM



Timing Chain Kit
ENGINE DRIVE SYSTEM



Belt (Timing Belt, Accessory Belt)
ENGINE DRIVE SYSTEM



Thermostat
COOLING SYSTEM



CHASSIS & AXLE PARTS

Wheel Bearing



CHASSIS & AXLE PARTS

Wheel Bearing Kit



Suspension



FUEL DELIVER SYSTEM

Fuel Pump



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GMB Korea, Leading future Mobility with Electrification Technology and Eco-friendly Innovation

**Powering the Future of Eco-Friendly Mobility
with Green and Electric Innovations.**

Sustainability & Innovation

Sustainability

R&D

Quality Management

Awards

Your success is our Future.



Sustainability

Activities and Action Plans

GMB Korea takes part in accomplishing the UN SDGs (Sustainable Development Goals).

SUSTAINABLE DEVELOPMENT GOALS



01



GMB Korea is actively pursuing eco-friendly management based on ISO 14001 certification, striving to develop eco-friendly products and establish eco-friendly production processes for net zero carbon emission. Aside from establishing solar power generation facilities, it introduces electric vehicles throughout the company in pursuit of a greener tomorrow in various areas.

02



GMB Korea strives to establish a safe working environment through continuous risk assessments and safety training as well as the introduction of safety equipment in production processes. In addition, through donations to communities and areas hit by disasters worldwide, recruitment of talents, and local community service activities, it is creating a world where everyone can live happily together.

03



GMB Korea upholds its code of ethics and policies in leading the growth of the precision automotive parts industry. By practicing ethical policies through transparent management, win-win cooperation, environmental management, quality management, information security, and social responsibilities, it performs tasks in a transparent, fair, and logical manner thus executing sustainable management.

Sustainability

Sustainable Management Goals

We will grow and paint a sustainable future together.



Environment

Today's Eco friendly management for a greener tomorrow

Core Assignments

01. Expansion of eco-friendly products
02. Pursuing Net Zero through production process efficiency
03. Strengthening management of environmental pollutants



Social

Humanistic management putting people first

Core Assignments

01. Establishment of disaster-free workplaces
02. Expansion of win-win growth among partners
03. Supply chain monitoring
04. Sharing with communities



Governance

Transparent and reliable management

Core Assignments

01. Transparent, ethical management
02. Enhanced communication among stakeholders

Sustainability

ESG – Environment

GMB Korea established an environment and energy management system based on the environment management process in accordance with the relevant laws such as Clean Air Conservation Act and Water Environment Conservation Act.



Point.01

Air Quality Improvement

- ▶ Installing air pollution prevention facilities
- ▶ Preventing air pollution by regularly measuring air pollutants



Point.02

Use of Renewable Energy

- ▶ Using renewable energy by installing solar power generation facilities



Point.03

Regular Environmental Impact Assessment

- ▶ Understanding the impact on the environment through regular environmental impact assessments



Point.04

Use of Smart Energy

- ▶ Using smart energy through IoT management



Point.03

3rd-party Verification of Greenhouse Gas Emissions

- ▶ Conducting feasibility assessment and verification via a 3rd-party agency regarding greenhouse gas emissions (Lloyd's Register Quality Assurance)

Sustainability

ESG – Society

GMB Korea strives for a better tomorrow based on its social responsibility together with all stakeholders.

We prioritize the value of diversity and tolerance and fulfills ethical management through activities aimed at the growth of local communities and social contribution thus creating social value.

GMB Korea will achieve people-oriented sustainable growth and establish a society where all prosper together.



Local Community Service Activities



Donations



River Purification Activities



Türkiye Earthquake Relief Activities

R&D

Technology that moves the future begins at **GMB Korea R&D.**



A Journey that Began with Ultra-precision Parts

During the early stage, GMB Korea R&D Center focused on precision processing technology primarily for vehicle engines and suspension parts and developed test methods and processing techniques for the stable supply of essential parts such as bearings.

We also improved the quality of products through precise tolerance control and process tests thus securing unparalleled technology and know-how in the field of vehicle precision processing parts.

SINCE 1979

Expansion into Electrified Parts

We concentrated on the development of electrified parts including water pumps and thermal management modules and adopted green technology and electronic control test methods. Since the 2010s, we have secured patents and invested in the facilities needed for the electrification to expand markets.

Setting our sights on the green vehicle parts market, we newly constructed an R&D Center in 2024, strengthening R&D in the aspects of testing equipment and infrastructure.

- | | |
|--------------------------------------|---|
| Test Methods | <ul style="list-style-type: none"> ✓ Durability tests: Evaluating performances of parts in a high-temperature, high-pressure environment ✓ Electronic control performance tests |
| Patents | <ul style="list-style-type: none"> ✓ Thermal management module ✓ Electric water pump: Secured superior technology in the field of EV thermal management |
| Facilities and Infrastructure | Introducing the latest manufacturing processes through the establishment of advanced R&D Center and production facilities |
| Technology | Reinforcing competitiveness in the electrified parts market with focus on electronic control and eco-friendly thermal management module |





GMB

Leap as an Integrated Module Company

We currently conduct technical research for systems and expand to large-scale facilities for the development of integrated modules for vehicles. We also invest in a variety of areas including system integration technology and introduction of high-efficiency designs.

GMB Korea R&D Center is testing designs that integrate multiple sensors to maximize efficiency, and it has developed a thermal management module and an integrated control system to meet the demands of car makers; thus shaping the future of the mobility industry.

Test Methods ✓ Environment tests: Evaluating module stability and performances under various real-use conditions
✓ Durability tests

Patents Protecting core parts technology for green vehicles and autonomous driving vehicles through designs related to high-efficiency integrated modules

Facilities and Infrastructure Establishing equipment specializing in module assembly and quality inspections

R&D

GMB Korea pursues improvement of trust in the performance and quality of green vehicle parts through testing with complete vehicles.

GMB Korea R&D Center owns machines capable of testing environmental durability, performance, fatigue, and NVH (Noise, Vibration, Harshness) to ensure highly reliable evaluations. We have also developed the thermal management module—an essential part in green vehicles—and established testing devices and environments that suit the actual environmental conditions to perform a variety of reliability verifications.

01

Performance Tests

- ▶ Active purge pump environment performance tester
- ▶ Hydrogen recirculation blower tester
- ▶ Water pump performance tester
- ▶ Electric water pump performance tester
- ▶ Electric oil pump performance tester
- ▶ Integrated thermal management module tester
- ▶ Actuator performance tester

02

Environment Durability Tests

- ▶ Active purge pump environment durability tester
- ▶ Hydrogen recirculation blower durability tester
- ▶ Water pump durability tester
- ▶ Electric water pump durability tester
- ▶ Electric oil pump durability tester
- ▶ Valve body wear-resistance tester
- ▶ Fan clutch durability tester
- ▶ Bearing multi-function tester

03

Performance Tests

- ▶ Bearing fatigue durability tester
- ▶ Wheel bearing stiffness measuring machine
- ▶ Nipple robustness tester

04

Environment /NVH tests

- ▶ Thermal impact tester
- ▶ Salt spray tester
- ▶ Perfusion tester
- ▶ Shatter waterproofing tester
- ▶ Dust tester
- ▶ Vibration tester
- ▶ Anechoic chamber

R&D

Production Facilities



Active purge pump durability tester



Electric oil pump performance tester



Electric water pump
high-temperature durability tester



Electric water pump
performance tester



Water pump durability tester



Hydrogen recirculation
blower performance tester



Thermal impact tester



Vibration tester



Environment durability testers

Quality Management

Quality is the most important value in satisfying customers and the pride of **GMB Korea**.

To become the No. 1 leader of the future mobility industry, GMB Korea established a company-wide quality management system, and it carries out continuous improvement activities. It focuses all of our capabilities on satisfying our customers with the world's best quality and services.



The Greatest Quality Accomplished

Achieving Quality 5 Star for customers

Field Claim Zero

Zero defects on customers' lines

Producing impeccable products



Strengthened Quality Capabilities

Developing Six Sigma experts

Reinforcing company-wide quality training

Strengthening the quality academy at partners

Establishing a sense of unity with partners



Global Quality Assurance System Established

Standardizing process quality control

Error-proofing in processes

Securing and verifying quality in each stage for new cars

Enhancing the level of quality at overseas plants

Quality Management Certification



IOS 45001:2018



IOS 16949:2016



IOS 14001:2005

Awards

GM

Supplier Quality Excellence Awards (2013~2023)



HMG

GENESIS Official
supplier (2024)



HMG

Quality 5star
(2015)



Ecovadis

Sustainability
Rating (2021)



NISSAN

Quality Excellence
(2024)



NEXTEER

Perfect Quality
Supplier Award (2017)



PSA

Supplier Awards
(BEST PLANT)
(2015)



HYUNDAI TRANSYS

Supplier of the year
(2021)



HYUNDAI MOBIS

Award of Appreciation
(2020)

