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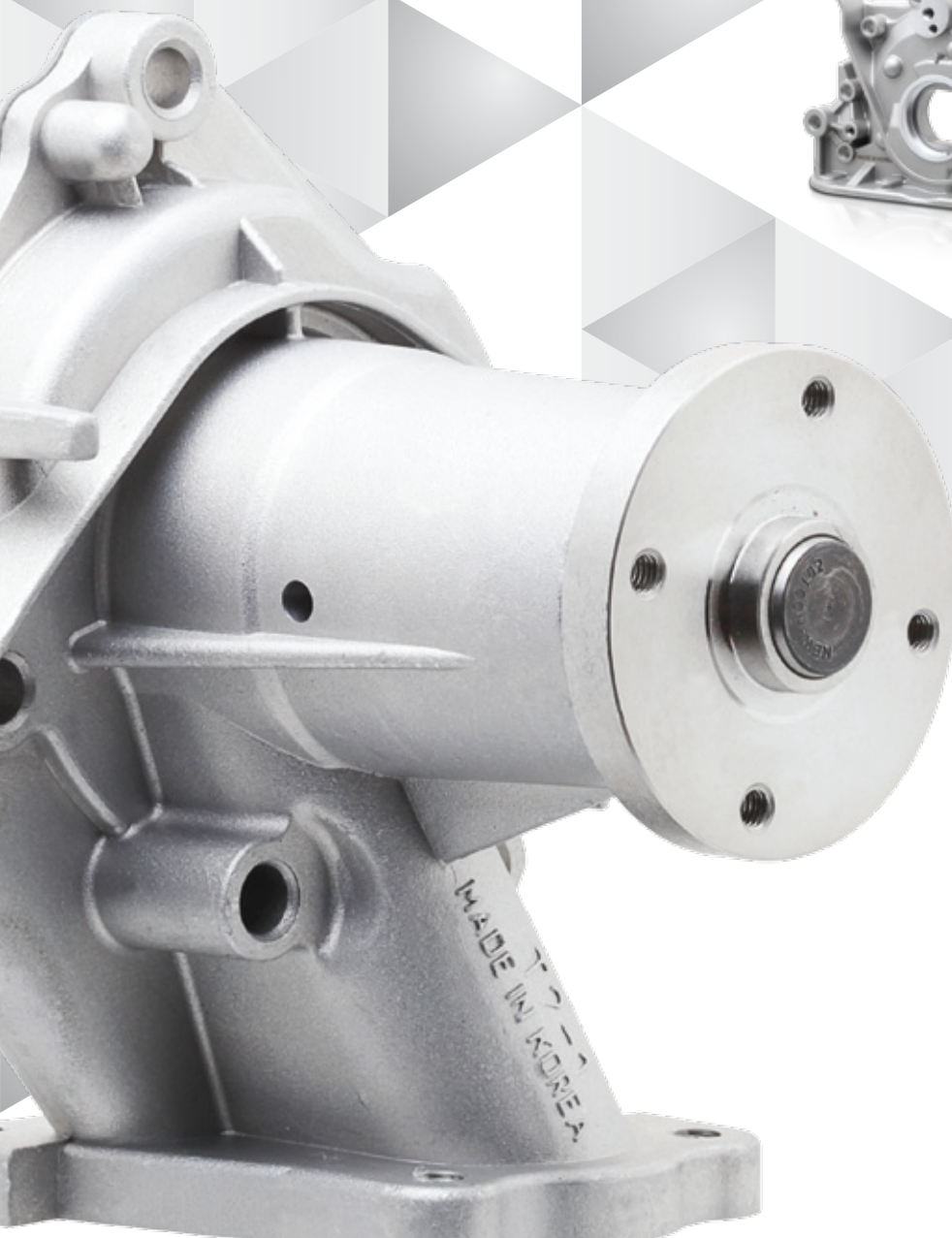
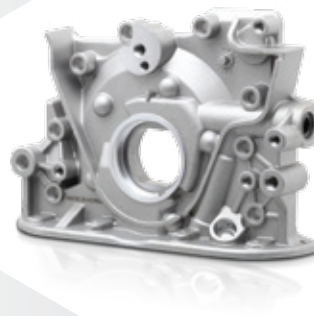


Water Pump / Tensioner / Oil Pump / OAP / Idler / Wheel Bearing

High Quality Performance

# Automobile Parts

Technology Systems



[www.newautokorea.com](http://www.newautokorea.com)



# Your True Partner, **NAP!**

## 3 STRONG POINTS OF NEWAUTO PRECISION

1. Differentiation which we operate die-casting, cutting, assembly and quality tests at the same time in Korea
2. The best quality , highly competitive price and the fastest delivery
3. Challenge spirit for being a global leader to the next generation

**We always do our best and make our efforts to be the best  
in the future auto parts market.**

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# Introduction



We are **NewAuto Precision Co., Ltd.**, an automotive component manufacturer.

We are the only company in Korea that handles all these things on our own without outsourcing-die-casting, processing, assembling, packaging, inspecting and shipping.

Therefore, we have differentiated competitiveness in quality and price.

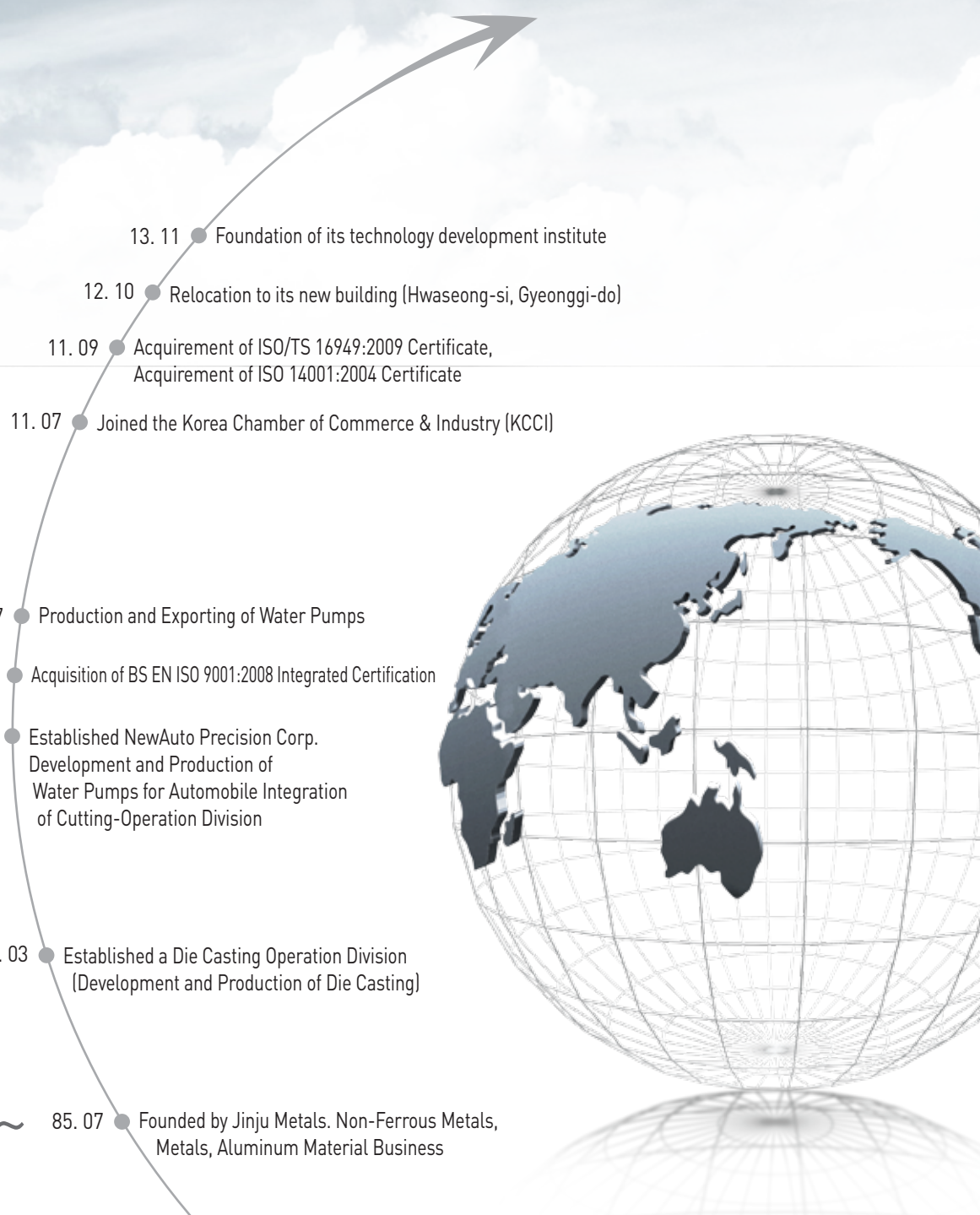
In addition, we hold technology certificates, such as ISO/TS 16949:2009, BS EN ISO 9001:2008, ISO 14001:2004, etc., and our experts manufacture high-quality water pumps, oil pumps, tensioners, idler bearings and wheel bearing.

We have exported our products to more than 50 nations such as Asia (including Korea), Europe, South America, the Middle East and Africa - based on consistent efforts and advanced technologies - since the establishment of Die-Casting Division in 1985; and the quality of our products is highly appreciated.

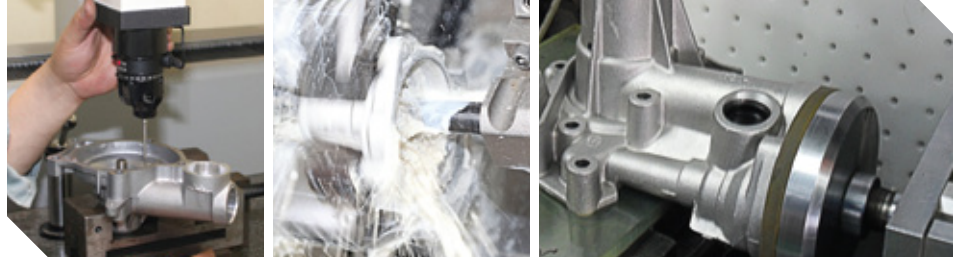
We will make a consistent effort to develop products and improve technical strength and do our best to satisfy our clients through high-quality products and competitive prices.

**"Our management philosophy is to satisfy our customers."**



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- 2010~
- 13. 11 ● Foundation of its technology development institute
  - 12. 10 ● Relocation to its new building (Hwaseong-si, Gyeonggi-do)
  - 11. 09 ● Acquirement of ISO/TS 16949:2009 Certificate,  
Acquirement of ISO 14001:2004 Certificate
  - 11. 07 ● Joined the Korea Chamber of Commerce & Industry (KCCI)
- 2000~
- 08. 07 ● Production and Exporting of Water Pumps
  - 07. 07 ● Acquisition of BS EN ISO 9001:2008 Integrated Certification
  - 07. 05 ● Established NewAuto Precision Corp.  
Development and Production of  
Water Pumps for Automobile Integration  
of Cutting-Operation Division
- 1990~
- 92. 03 ● Established a Die Casting Operation Division  
(Development and Production of Die Casting)
- 1980~
- 85. 07 ● Founded by Jinju Metals. Non-Ferrous Metals,  
Metals, Aluminum Material Business

# Certificates & Quality Management



Selected technicians of **NewAuto Precision** manufacture all the products with superb components. To satisfy the needs of various clients, our tasks are strictly performed according to the technologies and the operation standards are thoroughly observed - the technologies and standards created based on quality systems, such as ISO/TS 16949:2009, BS EN ISO 9001:2008, ISO 14001:2004. We perform quality assurance activities throughout all the stages - planning, designing, manufacturing and selling. As a result, our high quality level is recognized. Also, to realize 'Zero Defect', all our employees participate in quality improvement activities and management of facilities. By doing so, we are spurring the creation of quality management system, fundamentally preventing the possibilities of defect occurrence.



ISO/TS 16949

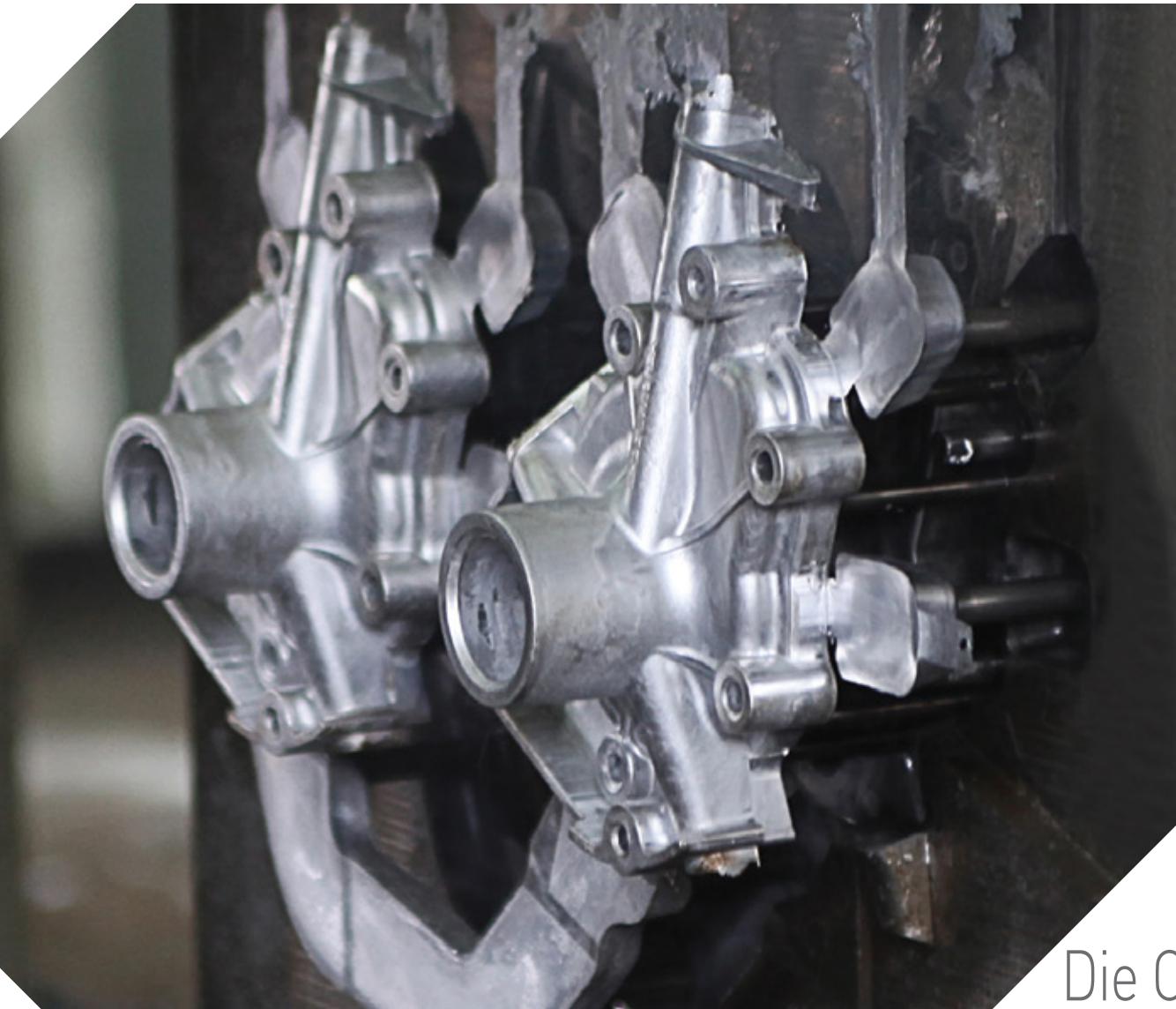


ISO 9001

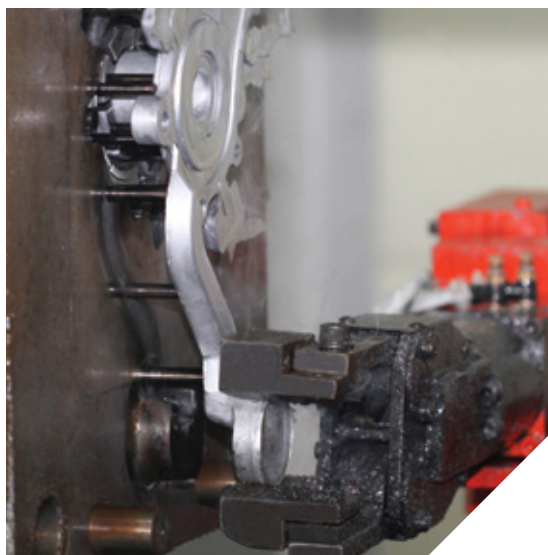


ISO 14001





## Die Casting



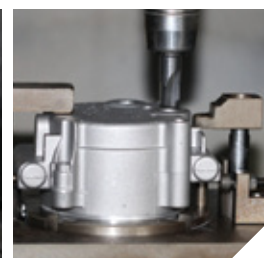
Based on the knowledge of the die casting for 30 years, we have superb technical strength (engineers specializing in die-casting), build up-to-date facilities (Toshiba) and manufacture optimal products (automobile components, electronic components, components used in household appliances, etc.).



## Process Division

Our facilities, such as high-precision machining centers, CNC automatic lathes, tapping centers, milling machines, etc., make our technical strength and productivity specialized.

With those advantages, we can rapidly cope with our clients' various orders and manufacture aluminum processed goods, precision machine components, communication device components, jigs and fixtures, etc.



# Assembly Line



With many years of accumulated and skilled human know-how and technical know-how and consistent investment in facilities, we have constructed a one-stop production system from assembling to inspecting. We manufacture the best quality products which clients want with our system.







# Products

Water Pump

Tensioner

Oil Pump

OAP(Overrunning Alternator Pulley)

Idler

Wheel Bearing

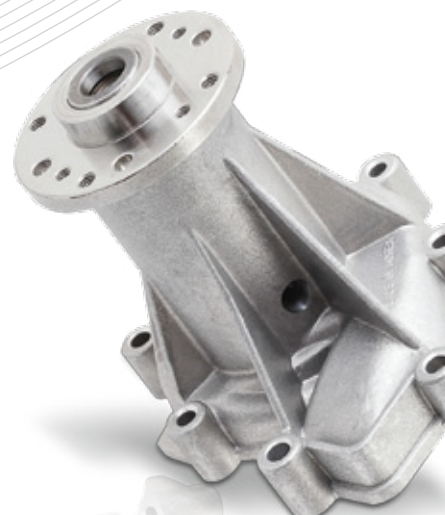
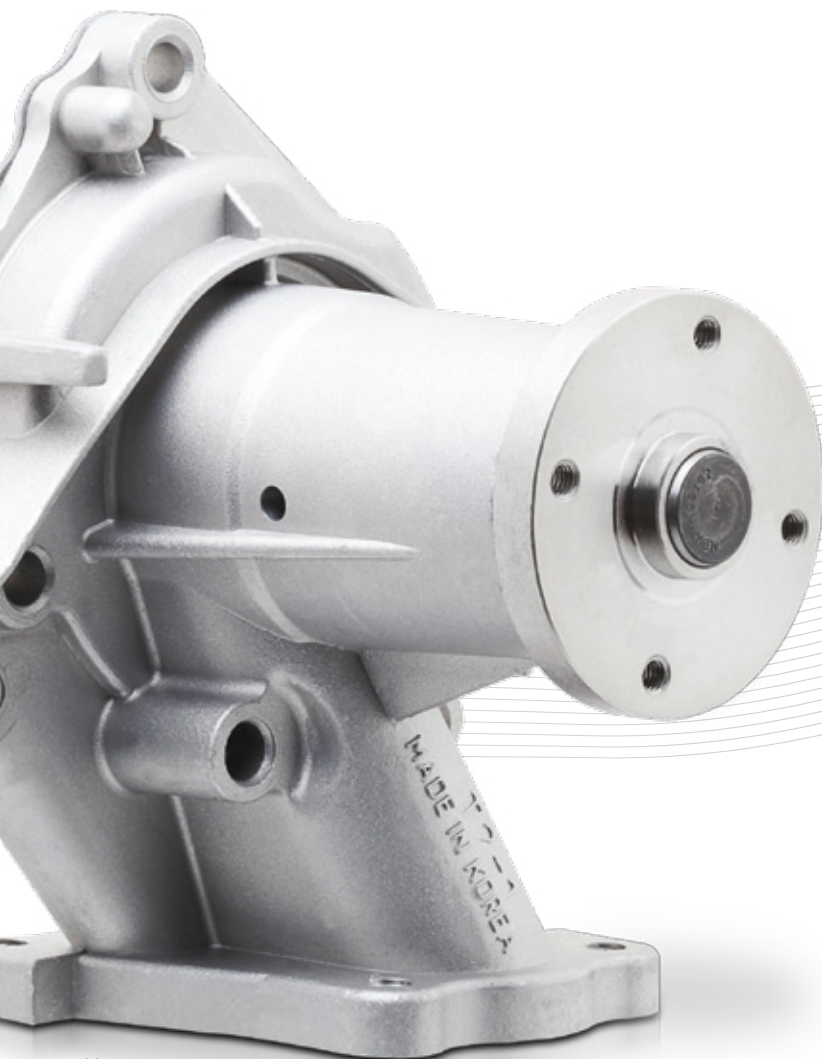
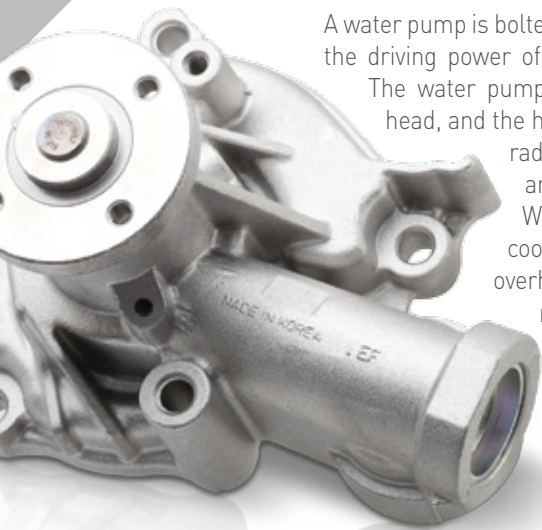
Quality is  
the Best Warranty.

# Water Pump

A water pump is bolted to the water jacket of a cylinder block. A drive belt or driving gear for water pump transmits the driving power of the crankshaft to the water pump, so the water pump can circulate the cooling water.

The water pump sends the cooling water up to the water jacket surrounding the cylinder and cylinder head, and the heated cooling water is withdrawn and sent to the radiator. And then, the cooling water in the radiator is cooled. The cooled cooling water in the radiator flows into the center of the impeller, and is extruded outwardly by centrifugal force and sent to the cylinder block or cylinder head.

When the engine, which can be called the heart of an automobile, is heated, circulation of the cooling water plays a role in reducing the heat. If the temperature of the engine rises and it is overheated (appropriate temperature or higher), the phenomenon could cause any of the components in the engine to be defective. The water pump is a crucial component in an automobile as circulation of the cooling water as well as the engine can operate the automobile heater.



# Tensioner

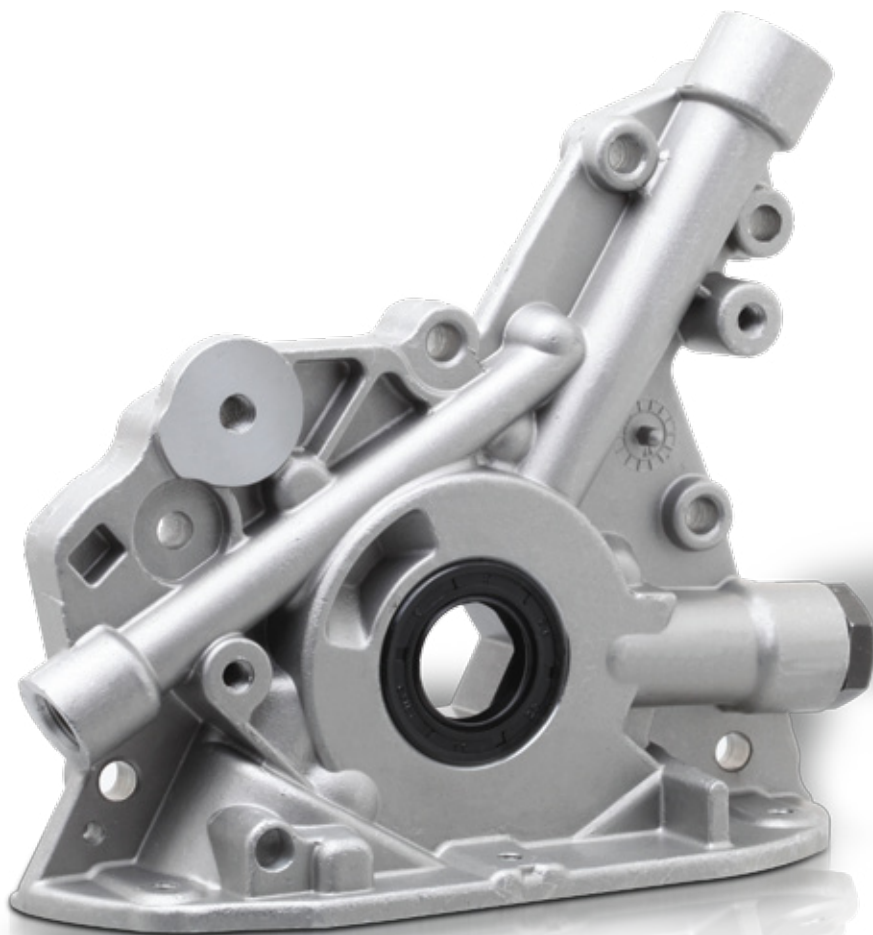
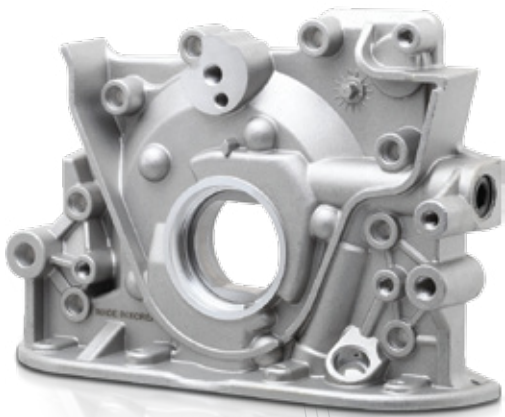
This is a device preventing the loosening of the timing chain that rotates the camshaft by connecting the timing gear of the crankshaft and the timing gear of the camshaft. It keeps the belt tension steady, so there is no engine power problem. It helps normal operation of the belt and is normally circular.



# Oil Pump

Oil plays a role in reducing friction in an engine, which is supposed to run smoothly at all times. The oil is moved by an oil pump. The oil pump is a pump conveying the oil in the oil pan to components in each engine by sucking up the oil. It is normally installed in the oil pan. As all the parts that work need to be lubricated, the oil is making every part of each engine smooth through the oil pump.

The oil pump plays a role in circulating the oil. In addition, it plays a role in making it possible to reuse the purified oil. Specifically, imperfectly combusted carbon deposit left in the engine is circulated by pressure of the oil pump and is filtered through the filter paper.



# OAP<sub>(Overrunning Alternator Pulley)</sub>

This plays a role in protecting alternator in sudden engine movement and in making engine movement natural. This type has a feature - the pulley has a clutch. It reduces irregular angular vibrations.

**Alternator:** A power generator supplying electricity to each electric device in an automobile



# Idler

This refers to an attached pulley or sprocket to adjust the tension of the engine belt or engine chain. If we press the timing belt, timing chain for driving the camshaft or the belt for driving auxiliary machinery, etc., the center of rotation is supposed to move. This is called idler.

**Sprocket:** This is fixed to a shaft and rotates with joints which mesh with the chain. By doing so, the transmission machine element transmits electric power.



# Wheel Bearing

This bearing, installed in an automobile wheel, plays a role in transmitting power. Gen.1 Wheel Bearing is assembled between automobile hub and steering knuckle and transmits rotation of the hub and the steering wheel movements.





## Research & Development



To supply superb quality products and reasonably priced products to clients, **NewAuto Precision Co., Ltd.** established R&D Division and is investing in it heavily.

We are continuously developing and investing in it, so it can perform our own unique consistent research and development in order to maintain our own unique innovative manufacturing processes and technologies.

R&D Division members' creativity and resourcefulness through continuous communication and new ideas are our best assets and growth engines.

Before commercializing, we conduct hundreds of tests and supply high-quality products. Also, consistently growing, creating values, and expanding opportunities for creating profits by developing new technologies are core competences of **NewAuto Precision Co., Ltd.**'s R&D Division.

