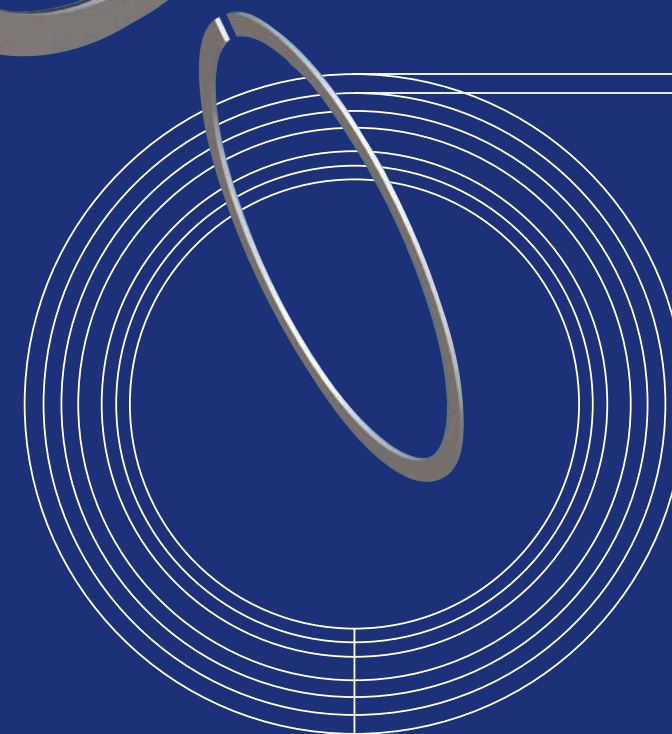
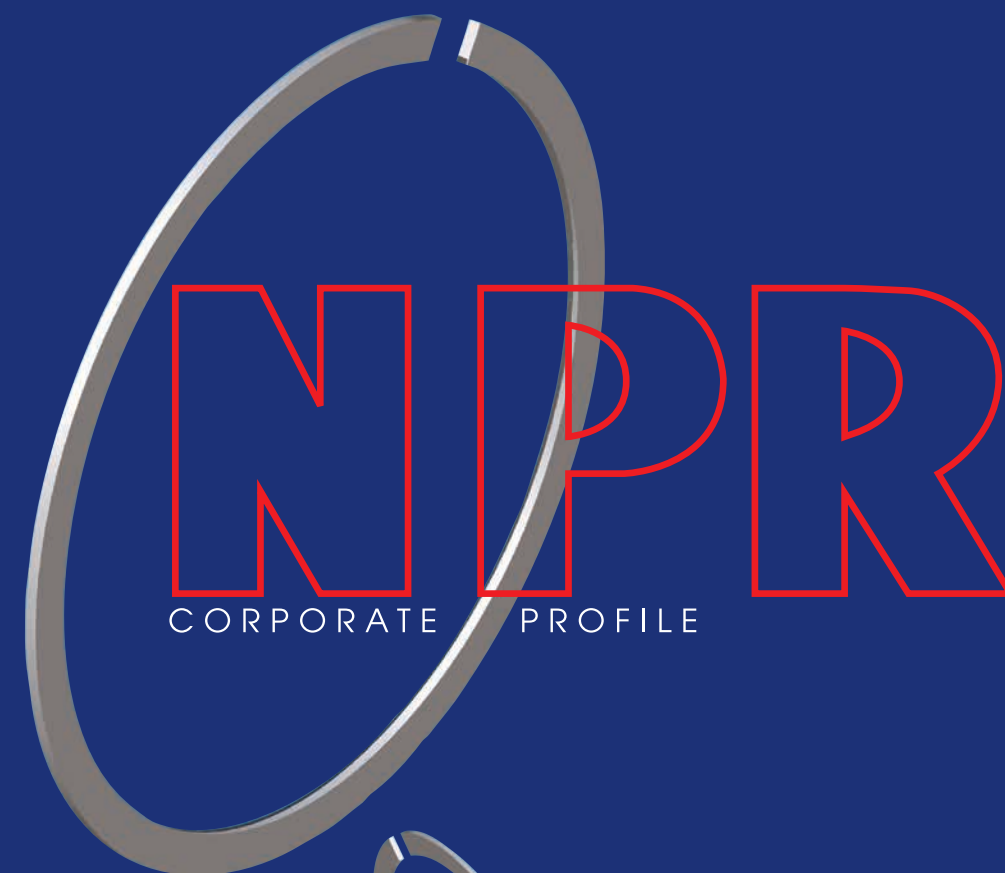




**NIPPON PISTON RING CO.,LTD.**



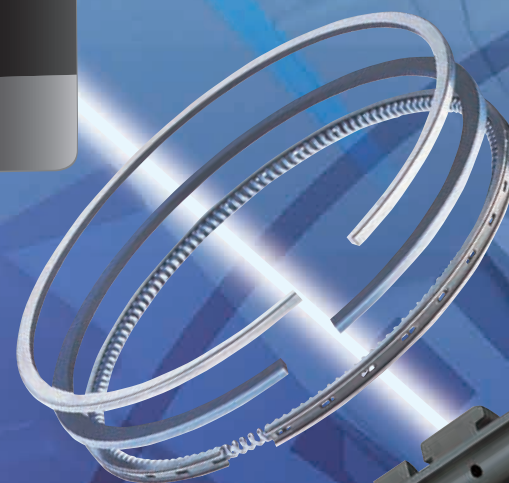
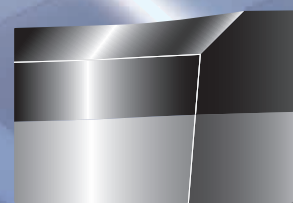
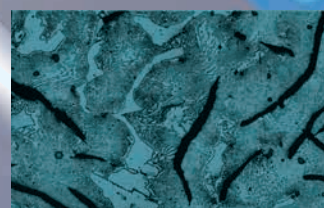
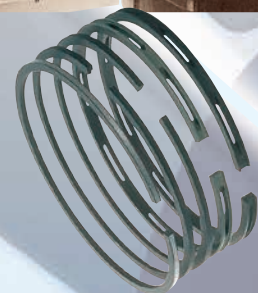




# GLOBAL Standard

**NPR pursuing unlimited possibilities to achieve  
high quality of the world benchmark.**

NPR, which has been supporting and contributing  
to the development of the Japanese motorization  
as a specialized manufacturer of internal combustion engine parts,  
has now grown to a global corporation,  
playing an active role as a major partner of automakers both in Japan and abroad.  
With the aim of achieving the highest level of quality and reliability in the world,  
NPR is continuing to aggressively pursue unlimited possibilities.  
By polishing advanced technologies it has so far nurtured,  
the supplier of engine parts is addressing such challenging issues  
as the environmental protection on the global level,  
and a new concept of system sourcing designed for higher efficiency of parts purchasing.

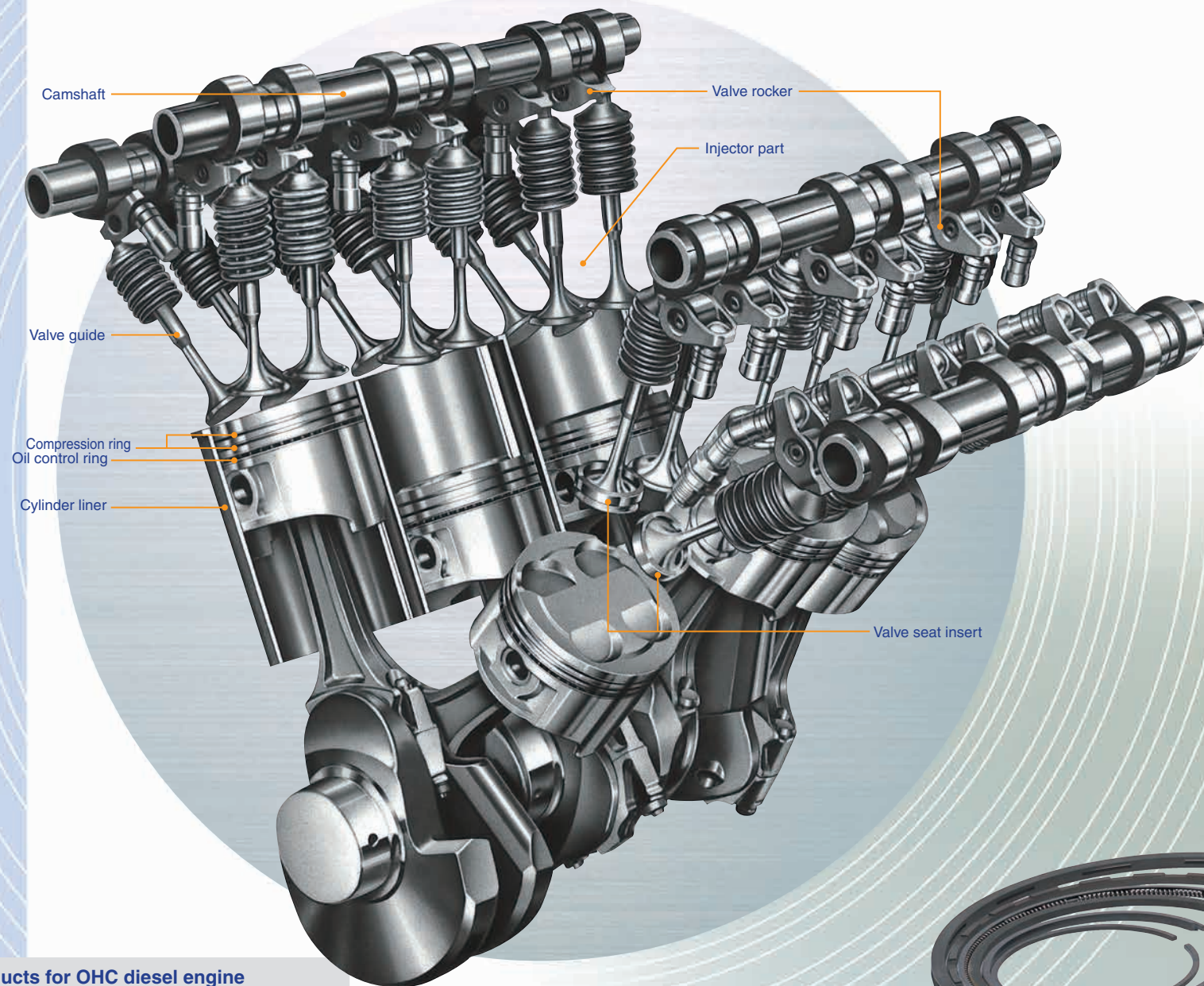




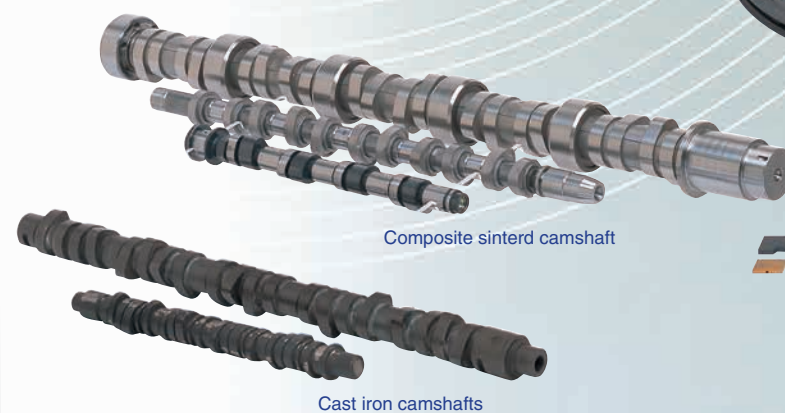
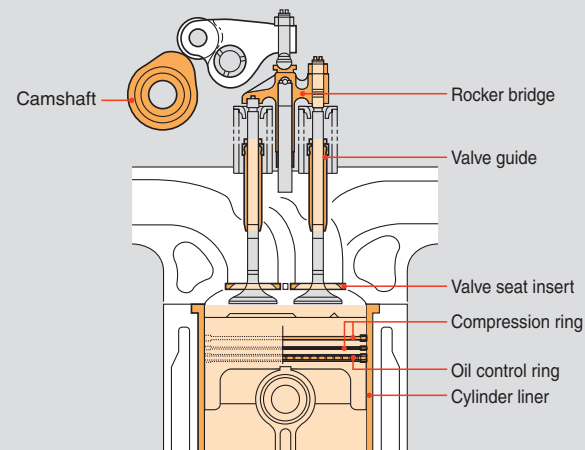
# “NPR Brand” chosen by high performance engines in the world.

In the core of an engine, which is the heart of a vehicle, there are NPR’s main products: piston rings, cylinder liners and valve train parts. Tribology and related wide-range technologies provide these products with high performance and superb quality. NPR’s history is a history of the struggle with “friction and wear”. Through this struggle a variety of innovations and improvements including weight and size reduction, energy saving and environment protection have been made in the field of NPR products for developing engines to provide safety and comfort of driving.

Aiming to Only1  
and No.1 products.

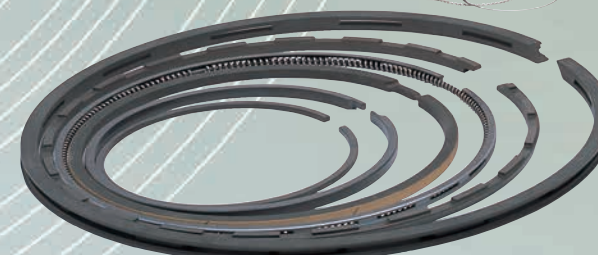


## ●NPR products for OHC diesel engine



Cast iron camshafts

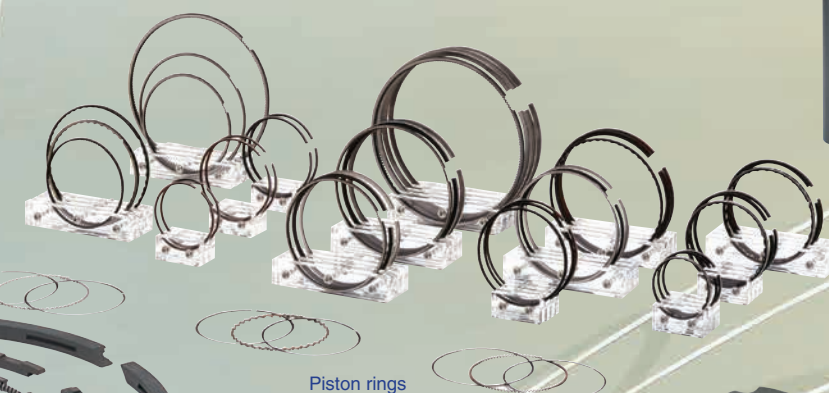
Composite sinterd camshaft



Piston rings for land and marine engine



Compressor parts



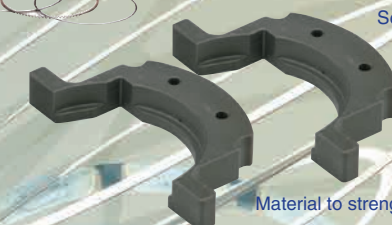
Piston rings



Cylinder liners



Seals for rotary engines



Material to strengthen bearing



Synchronizer rings



Valve seat inserts

Valve train parts



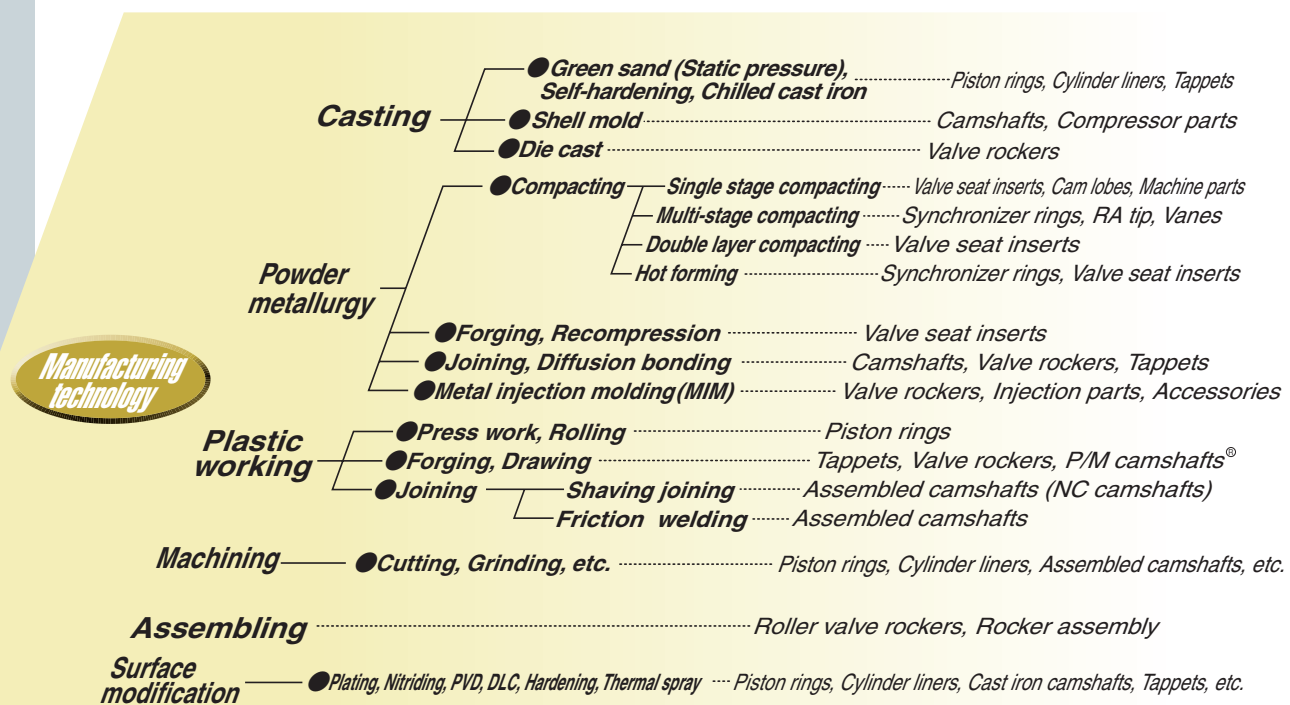
Metal injection molding products

High Quality



# A variety of technologies are combined to create high-performance parts.

As technology of an automobile has advanced, high quality and high performance have been required also of its components. NPR has painstakingly developed and produced each of its parts, overcoming difficulties in precision, durability and cost performance. Various technologies used for new products and materials are integrated in these products. NPR's development technologies, both basic and applied, as well as its flexible concept will continue to make contribution to the development of an automobile. Technologies nurtured in NPR will present new business opportunities.



Production line of Piston Ring



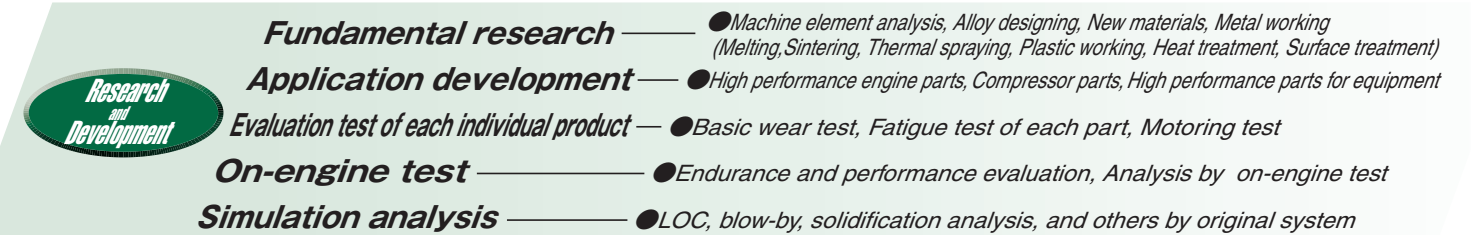
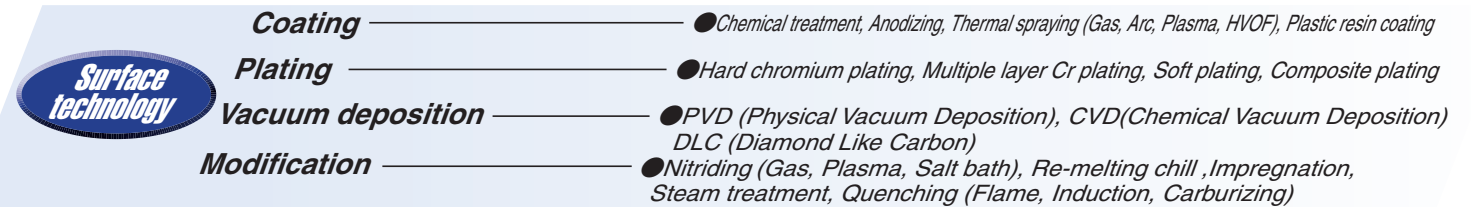
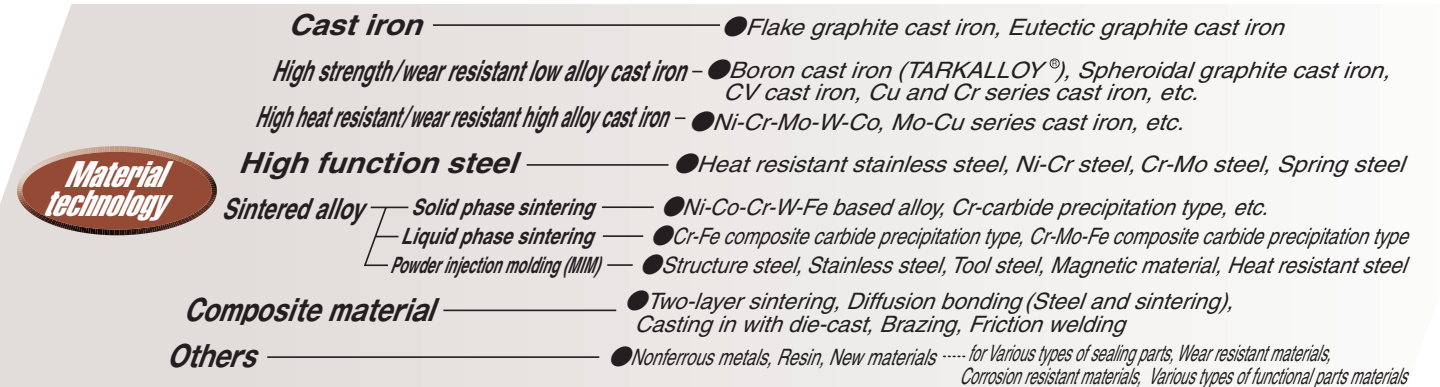
Production line of Valve Seat Insert



Sintering line of P/M camshafts®



Production line of PVD treatment



TOCHIGI Plant



NPR IWATE Co., Ltd.

Production



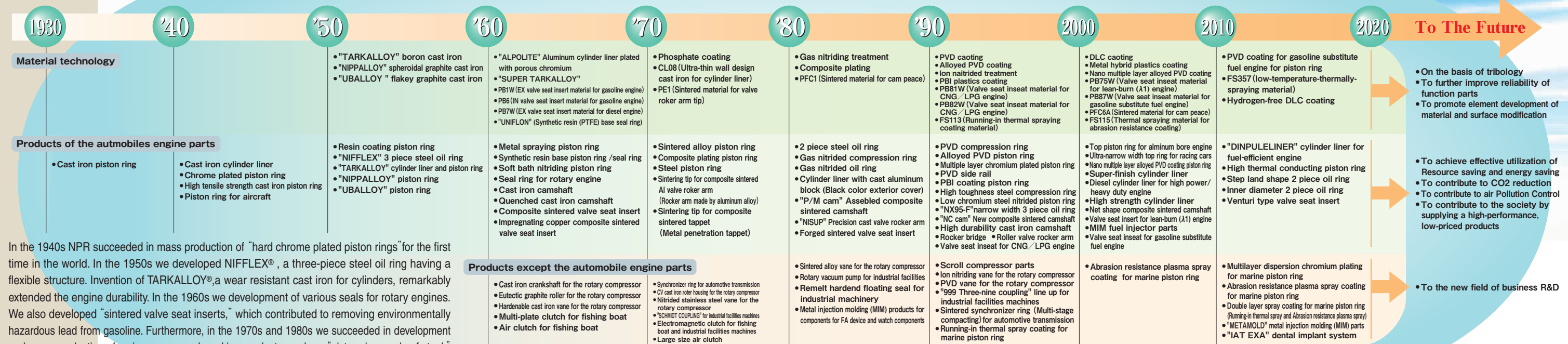
NPR FUKUSHIMA WORKS Co., Ltd.

Technology Product Line-up



# High-level technological capabilities achieve the development of eco-friendly products.

In the technical development areas of engine parts including material technology represented by sintering, surface treatment like PVD, and manufacturing engineering, NPR has introduced a lot of innovations for the first time in the world and in the industry. Research and development of NPR is based on tribology. This unique core technology for the analysis of materials and mechanism has been cultivated by NPR for over a half century. The research and development of the company is conducted by an organized network of various departments. Each of them is responsible for its respective function like basic research, product development, product engineering and conformance evaluation. By such coordinated activities NPR is capable of developing products to meet market requirements that are becoming increasingly higher. In response to problems of the environment and energy that are expected to become severer in the future, NPR is willing to create its own original technologies.



In the 1940s NPR succeeded in mass production of "hard chrome plated piston rings" for the first time in the world. In the 1950s we developed NIFFLEX®, a three-piece steel oil ring having a flexible structure. Invention of TARKALLOY®, a wear resistant cast iron for cylinders, remarkably extended the engine durability. In the 1960s we developed various seals for rotary engines. We also developed "sintered valve seat inserts," which contributed to removing environmentally hazardous lead from gasoline. Furthermore, in the 1970s and 1980s we succeeded in development and mass production of various new epoch-making products, such as "piston ring made of steel," "composite-sintered P/M Camshaft," "composite-sintered rocker arm/tappet" and "sintered vane." In the 1990s we succeeded in development and mass production of various products corresponding to emission control such as "PVD coated piston ring," "Metal injection molding (MIM) parts," and "Sintered synchronizer ring by multi-forming". Since 2000 we have continued to introduce such superior products friendly to global environment as "Valve seat inserts for lean-burn engine," "DLC coating" and "Component parts to strengthen aluminum body". 2010s we developed "High thermal conducting piston ring," "Venturi type valve seat insert" and "DINPULELINER" which contributed to a high efficiency engine. In except the automobile engine parts field, we established a new business of "METAMOLD" metal injection molding parts and "IAT EXA" dental implant system. For the future, NPR challenge to advanced research & development and the business of the new field, using our technology that we acquired under the severe environment of the inside of the engine.



## Research and development for more attractive products



## Research and development for the next generation



# R e s e a r c h & D e v e l o p m e n t



NPR Fukushima Works Co., Ltd.



**<Company profile>**  
Location : 1 Iizaka aza Maenakai, Kawamata-machi, Date-gun, Fukushima Prefecture 960-1401  
Phone : 024-565-5111 Fax : 024-566-5583  
Date of establishment : April 9, 1974  
Land : 130,788 square meters Building : 30,895 square meters  
Line of business : Production and sales of valve seat inserts, cylinder liners, cast iron camshafts, compressor parts, piston ring materials for land and marine engine and other products.

NPR Iwate Co., Ltd. / Ichinoseki Plant (Head Office and Plant)



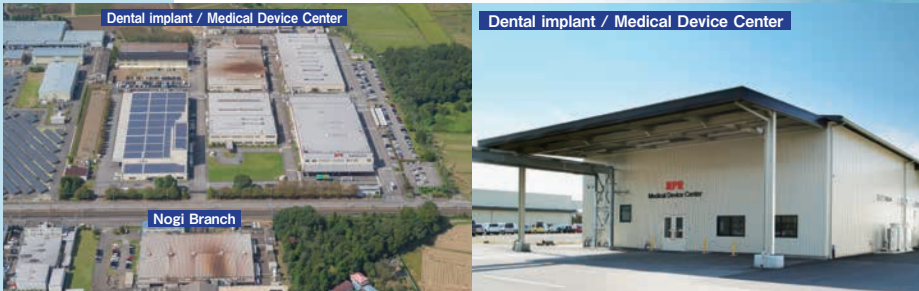
**<Company profile>**  
Location : 14-42 Higashidai, Ichinoseki City, Iwate Prefecture 021-0822  
Phone : 0191-31-2111 Fax : 0191-31-2123  
Date of establishment : September 12, 2002  
Land : 77,313 square meters Building : 37,280 square meters  
Line of business : Production and sales of piston rings for vehicles and land and marine engine, rotary engine parts and other products.

NPR Iwate Co., Ltd. / Senmaya Plant



**<Plant profile>**  
Location : 300-5 Senmaya aza  
Nishikoda, Senmaya-cho, Ichinoseki City, Iwate Prefecture 029-0803  
Phone : 0191-53-2011 Fax : 0191-53-2821  
Date of establishment : April 10, 1990  
Land : 84,491 square meters Building : 10,597 square meters  
Products : Casting and prefabrication of materials of cast iron piston rings for vehicles and land and marine engine.

Tochigi Plant



**<Plant profile>**  
Location : 1111 Nogi, Nogi-machi, Shimotsuga-gun, Tochigi Prefecture 329-0114  
Phone : 0280-57-1111 Fax : 0280-57-2622  
Date of establishment : October 1984  
Land : 91,488 square meters Building : 33,463 square meters  
Products : Piston rings for land and marine engine, composite comshafts, component made of sintered metal, metal injection molding parts (MIM), dental implant parts and other engine parts.



**<Head Office>**(Saitama City)  
● Engineering and Sales Department I  
● Engineering and Sales Department II  
● International Sales Department  
● NRS Sales Department  
● Normeca Asia Co.,Ltd.



**<R&D Center 1>**



# Aspiring to be a member of the world class suppliers with the state of the art technology.

The network of NPR is now expanding globally with operating bases located not only in the United States and Europe, but also in Asia. NPR is aspiring to become one of the world class suppliers as a specialized maker of internal combustion engine parts through making aggressive sales and technical collaborations as well as a positive exchange of human resources.

# GLOBAL Network

## ● NPR Auto Parts Manufacturing(Yizheng) Co.,Ltd. (NAMY)



### <Company profile>

Location : 6#Lianzhong Road, Yizheng Automobile Industrial Park, Yizheng, Jiangsu 211400, China  
Phone : +86-514-8342-9700 Fax : +86-514-8342-9711  
Date of establishment : February 5, 2005  
Land : 75,000 square meters Building : 16,400 square meters  
Line of business : Production and sales of piston rings.  
Sales of valve seat inserts, cylinder liners and other products.

## ● NPR ASIMCO Powdered Metals Manufacturing (Yizheng) Co., Ltd. (NAPM)



### <Company profile>

Location : 18# Kangmin Road, Yizheng Automobile Industrial Park, Yizheng, Jiangsu, China (211400)  
Phone : +86-514-8390-2100 Fax : +86-51 4-8390-2126  
Date of establishment : October, 2013  
Capital : US \$ 8,800,000 (50% invested by NPR and 50% by CYPR)  
Land : 24,000 square meters Building : 11,000 square meters  
Line of business : Production and sales of valve seat inserts

## ● Yizheng Yaxinke Shuanghuan Piston Ring Co., Ltd. (CYPR) (China) Technical collaboration for piston rings

## ● Korea Office (Gyeonggi-Do, Korea)

## NPR of America, Inc. (NOA)

### <Company profile>

Date of Establishment: January 1, 2011

### ● Los Angeles office



### ● Detroit office



### ● Kentucky Manufacturing Plant



Location : 680 WILSON PARKWAY, BARDSTOWN KY 40004  
Phone : +1-502-350-9270 Fax : +1-502-350-9271  
Date of establishment : May 18, 2006  
Land : 160,498 square meters  
Building : 18,150 square meters  
Production : Steel piston rings

### ● Michigan Manufacturing plant



Location : 11118 US31 Highway, Building B, Grand Haven, MI.49417  
Phone : +1-616-296-9365 Fax : +1-616-296-9373  
Date of establishment : October 25, 2004  
Building : 2,605 square meters  
Production : Valve seat inserts

## ● NPR of Europe GmbH. (NOE)



(Stuttgart, Germany)

## ● NPR Auto Parts Manufacturing India Private Limited (NPRI)



### ● NPRI Gurgaon office

### <Company profile>

Location : Plot No.6-O to 6-P, Malur Industrial Area, 4th Phase, Hulimangala Hosakote Village, Lakkur Hobli, Malur Taluk, Kolar, Karnataka - 563160 INDIA  
Phone : +91-9482-302765  
Date of establishment : November, 2011  
Land : 5,794 square meters  
Building : 2,926 square meters  
Line of business : Production and sales of valve seat inserts

## ● IP Rings Ltd. (IPR) 9.99% invested by NPR (India) Manufacturing piston rings.



## ● NPR Singapore Pte.Ltd. (NPRS) (Singapore)

## ● E.A. Associates Sdn. Bhd (EAA) (Malaysia)

### ● PT.NT Piston Ring Indonesia (NTRI)



### <Company profile>

Location : Suryacipta City of Industry Jl Surya Madya II Kav. 1-27A, Kutamekar Ciampei, Karawang-41361, INDONESIA  
Phone : +62-267-440457 Fax : +62-267-440182  
Date of establishment : December 18, 2000  
Land : 51,532 square meters Building : 23,853 square meters  
Line of business : Production and sales of steel piston rings and valve seat inserts for vehicles and land and marine equipment

### ● PT.NPR Manufacturing Indonesia (NPMI)



### <Company profile>

Location : Jl.Rembang Industri II NO.24 Kawasan Industri PIER-Pasuruan Indonesia 67152  
Phone : +62-343-740-215 Fax : +62-343-740-217  
Date of establishment : March 13, 2006  
Land : 35,410 square meters  
Building : 14,557 square meters  
Line of business : Production and sales of cast iron piston rings and camshafts

### ● SIAM NPR Co., Ltd. (SNPR)



### <Company profile>

Location : 88 Moo2, Srangsoak, Banmoh, Saraburi 18130, THAILAND  
Phone : +66-3634-0201 Fax : +66-3634-0200  
Date of establishment : July 29, 1997  
Land : 6,600 square meters  
Building : 4,830 square meters  
Line of business : Production and sales of valve seat inserts

● Manufacturing establishments  
● Sales offices  
● Business/Technical collaboration

Management Philosophy

- 1. We pursue our every business operation on the principle of placing the No. 1 priority on customers.
- 2. We make a proper return to related associations as well as shareholders by securing an appropriate level of profit through a flexible response to changes in the environment.
- 3. In harmony with the society, we make a contribution to the progress of human beings by securing the position of a global comprehensive parts manufacturer.
- 4. We strive for the prosperity of the corporation and welfare of its employees through perpetual efforts for innovation and improvement in performance.

Line of Business

As a specialized manufacturer of internal combustion engine components, we are in our element with the material technologies of high grade cast iron, special steels, sintered alloys and various synthetic resins. We are also well versed in related surface treatment technology, precision machining and composite technologies. Our main business is the production and sales of various functional parts which are in line with latest technology.

Main product lines

- Piston rings ●Valve seat inserts ●The other automobil engine parts ●Operation in marine-and other products ●Metal injection molding parts
- Dental implant ●Others

Establishments

HEAD OFFICE / International Sales Department

5-12-10, Honmachi-Higashi, Chuo-Ku, Saitama City, Saitama, 338-8503 JAPAN  
Phone:+81-48-856-5022 Fax:+81-48-856-5038

P L A N T S / ●Tochigi ●Fukushima ●Iwate(Ichinoseki/Senmaya)

DOMESTIC

OFFICES / Engineering and Sales Department I

- Tokyo ●Nagoya ●Osaka ●Hiroshima ●Fukuoka
- Sendai

OVERSEAS SALES OFFICES

U.S.A. ●NPR of America, Inc. Detroit office

41650 Gardenbrook Road, SUITE180, Novi, MI 48375, U.S.A.  
Phone:+1-248-449-8955  
Fax:+1-248-449-6705

●NPR of America, Inc. Los Angels office

7001 Village Drive, Suite 240 Buena Park, CA 90621, U.S.A.  
Phone:+1-562-207-6882  
Fax:+1-562-207-6883

ASIA

●NPR Auto Parts Manufacturing(Yizheng) Co., Ltd.(NAMY)

6#Lianzhong Road, Yizheng Automobile Industrial Park,  
Yizheng, Jiangsu 211400, China  
Phone:+86-514-8342-9700  
Fax:+86-514-8342-9711

●NPR Singapore Pte.Ltd. (NPRS)

28 Pioneer Crescent, #05-13, West Park BizCentral, Singapore 628559  
Phone:+65-6466-3922  
Fax:+65-6468-3966

●Nippon Piston Ring Co., Ltd. Korea Office

Sejin Plaza 5th 503,19, Gilju-Ro 77beon-Gil, Wonmi-Gu,  
Bucheon-Si, Gyeonggi-Do, Korea  
Phone:+82-32-321-0372  
Fax:+82-32-321-0136

EUROPE ●NPR of Europe GmbH.

Siemensstr.56, 70825 Korntal-Münchingen, F.R. Germany  
Phone:+49-7150-9163-0  
Fax:+49-7150-9163-1005

●E.A.Associates Sdn.Bhd (EAA)

No.4A (1st Floor) Jalan SS 15/8B 47500 Subang jaya Selangor  
Darul Ehsan Malaysia  
Phone:+60-3-5634-8900  
Fax:+60-3-5634-8901

●NPR Auto Parts Manufacturing India Pvt Ltd (NPRI)

2315/23, Opposite Payal Cinema, Behind Karim Restaurant,  
Old Delhi Road, Gurgaon - 122001 (Haryana)  
Phone:+91-1244-142820

●SIAM NPR Co.,Ltd. (SNPR)

993/16 Room C6 Kheha Rom Klao Rd., Klong Song Ton Nun,  
Lat Krabang, Bangkok 10520 Thailand  
TEL +66-81-707-5051  
e-mail salesmarketing@snpr.co.th

