

RHP – HIGHLY RELIABLE BEARINGS  
FOR GENERAL INDUSTRIAL APPLICATIONS



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# RHP – An integral part of NSK's history

A world-wide reputation built on being No.1 in Total Quality. NSK started operations as the first Japanese manufacturer of rolling bearings in 1916. Ever since then, we have strived continuously to expand and improve not only our products but also our extensive range of services for industry. These developments are the result of listening to our customers' needs.

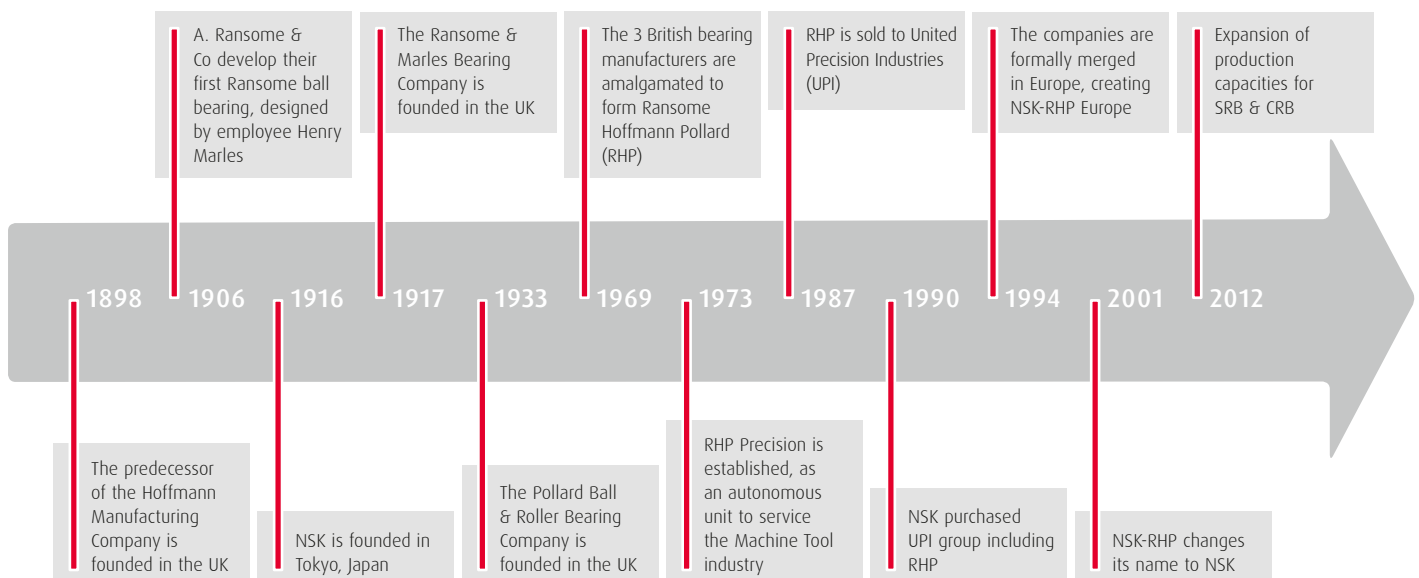
In 1990, NSK demonstrated its commitment to global expansion by purchasing the RHP group of companies, adding the world-renowned brand to its product portfolio. RHP continues to flourish across the globe underneath the banner of NSK – a synergy of European and Japanese production, engineering, sales and marketing.

RHP was an amalgamation in 1969 of the three major British bearing manufacturers, dating back as far as 1898. The three companies were Ransome & Marles (1917), Hoffmann Manufacturing (1898), and the Pollard Ball & Roller Bearing Company (1933). The combined company, Ransome Hoffmann Pollard (RHP), became a highly respected brand across the globe in the industrial and aerospace industries, and even today remains a world-leading brand in Self-Lube® product groups and Super Precision Bearings.

The sales & engineering functions of NSK and RHP have been merged, and the RHP manufacturing facilities brought under the guiding influence of NSK's stringent manufacturing principles.

Building on the strengths of quality and partnership with our customers, the NSK Group is further investing in RHP roller bearing capabilities, extending the range of RHP branded industrial products and adding to the existing range of roller bearings on offer.

The RHP brand stands for the principles of NSK's manufacturing and engineering excellence, matching roller bearings made in Europe to our customers' exacting specifications.



# Product overview – Bearings

As one of the world's leading manufacturers of rolling bearings, linear technology components and steering systems, we can be found on almost every continent – with prompt deliveries and local service.



### Spherical Roller Bearings

- › Used in robust applications
- › Can withstand initial misalignment
- › Pressed steel and brass cage available



### Spherical Roller Bearings EVB Series

- › Special features for vibrating equipment
- › Pressed steel and brass cage available



### Cylindrical Roller Bearings – Metric Design

- › High capacity cylindrical roller bearing with plastic cage “ET-design”
- › Pressed steel and brass cage available



### Cylindrical Roller Bearings – Inch Design

- › Used in applications with high radial loads
- › Used where shaft expansion has to be accommodated



### Single Row Ball Bearings

- › Most popular bearing type
- › Used in a wide range of operating conditions
- › Various seals and shields available
- › Metric & Inch dimensions



### Single Row Angular Contact Ball Bearings

- › Used in applications with high axial loads
- › Used where a wide range of speeds and axial positional control is required

# Product overview – Mounted Units

Self-Lube® is an integral part of RHP's comprehensive product range and the trademark for RHP range of wide inner ring bearings and mounted bearing units. Mounted units provide simple and effective bearing arrangements capable of accommodating moderate initial misalignment from mounting errors.



## Self-Lube®

The range of Self-Lube® bearing units offers a wide choice of cast iron or pressed steel housings fitted with the full range of spherical outside diameter Self-Lube® bearing inserts. They will accommodate initial housing misalignment up to 0.030 radians but are not recommended for running misalignment in excess of 0.001 radians.



## Silver-Lube®

The Silver-Lube® series is a range of corrosion resistant bearing units specifically for use in industries where frequent thorough washdowns are necessary, optimum hygiene standards are required and good chemical resistance is important over a wide temperature range also available with protector. Housing available also in stainless steel.



## Life-Lube®

The Life-Lube® series combine the corrosion resistant properties of Silver-Lube® housings with the excellent sealing and lubricating properties of Molded-Oil inserts. Life-Lube® units are specifically for use in industries where contact with water and process fluids is unavoidable, excellent chemical resistance is required and a longer lubrication life is necessary, also available with protector. Housing available also in stainless steel.

# Partnership based on trust – and trust based on quality

Worldwide, NSK is the acknowledged leader in advanced motion technology, driving rapid developments in materials, mechanical design, lubrication and sealing to downsize bearings and reduce costs without compromising machine performance.

## **At a glance: advantages for you – and your customers**

NSK is a member of the World Bearing Association (WBA), which has launched an initiative to combat fake bearings and provides information about the potential safety risks posed by counterfeit bearings.

**For more information please visit:**  
[www.stopfakebearings.com](http://www.stopfakebearings.com)



## **Quality Focus & Social Environment**

**NSK takes responsibility for the environment not only through our own products and processes, but also those of our suppliers, partners and customers:**

- › We are committed to reducing the energy burden on the environment through the use of our four Core Technologies
- › We ensure that our global operating sites fulfill our social responsibility
- › All NSK plants are certified ISO 14 001 environmental management system



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