

NTN-SNR Lubrication Guarantees a Bearing's Service Life

70% of bearing failures are due to unsuitable lubrication. To ensure customers obtain greater efficiency and, above all, greater longevity from their bearings, NTN-SNR offers comprehensive lubrication solutions. From the standard range to custom solutions, NTN-SNR has developed suitable greasing systems with a wide range of accessories, and also lubricants that meet specific customer requirements. With this range of bearings, NTN-SNR strengthens its position as market leader, from production through to maintenance.

NTN-SNR, a Reference for Excellence in the Lubrication Market

Designer, developer and manufacturer, NTN-SNR leads the market with its range bearings. To meet the growing demand from customers for global solutions, NTN-SNR has developed a comprehensive range of services and more particularly, a wide range of lubrication solutions, essential to the optimum running of bearings.

Good Lubrication Ensures That a Bearing Will Last

Lubrication is essential. It allows a bearing and the associated mechanical device to run at their optimum by providing separation between the rolling elements and the rings, thus preventing wear and binding between the items. Also, lubrication protects bearings from corrosion and external pollutants.

"There is a real need to make people aware of the importance of lubrication. Today, it is often the last aspect considered in the design of a machine, and yet it is an essential element in ensuring that machines run at their best. Little by little, the concept is taking root. When you think about the cost of shutting down a machine, you realise the importance of lubrication!" says Mathias Steinmetz, Technical Support Applications Engineer for the French and export sales teams. 70% of bearing failures are indeed due to inappropriate lubrication: poor choice of lubricant, contamination, or even the wrong quantity.

Every installation requires different and correct lubrication. Obviously, the right lubricant must be selected, but also the way in which it applied the exact quantity to introduce into the bearing, and the monitoring frequency. The choice of lubricant is made with regard to the bearing's speed of rotation, its load and its environment. For example, for high-speed applications and in particular for machine tools, we use the "stretched drop" principle with an air+oil lubrication system: the droplet is stretched until it becomes a thread which then lubricates the bearing. So, it does not explode when it comes into contact with the spindle.

Lubrication, a Strategic Choice for NTN-SNR

NTN-SNR has developed its range for the lubrication market, to provide customers with increasingly comprehensive solutions. This is a strategic market for NTN-SNR, one in which it aims to increase its turnover significantly between now and 2015.

For more than 50 years, NTN-SNR has been carrying out research into lubrication, working together with the world's leading lubricant manufacturers. The lubricants are tested and approved in NTN-SNR's laboratories and, where necessary, compositions are modified to provide the grease with the required characteristics (anti-oxidising properties, ability to withstand extreme pressure, water-resistance, etc.).

Expertise Brought to Bear in Many Markets

With a presence in many markets in Europe and elsewhere, NTN-SNR provides advice and expertise in the installation of its customers' industrial equipment.

Experts in Meeting Customers' Requirements

More and more, customer demands turn towards guaranteed lubrication solutions and complete packages. NTN-SNR meets these demands by supplying, installing and commissioning lubrication solutions and so provides standard or customised turnkey installations. NTN-SNR lubricants, greases and oils are marketed via distributors but also in direct contact with LUB'SOLUTIONS experts.

"We provide quality of service and additional expertise. All sales staff are trained in technical aspects and in the specific features of installations and lubricants. We do not just sell. Our knowledge of lubrication solutions allows us to make the right recommendations for our customers' needs. We work together with them to produce a specification: we define the type of lubricant necessary for the bearings and calculate the appropriate viscosity and servicing frequency, depending on the application. Thus, we can recommend the best-suited solution and assist them in setting up their lubrication systems," explains Christophe Benier, NTN-SNR's Lubrication Expert.

A Lubrication System for Each Market

NTN-SNR markets its lubrication range in numerous markets, both in Europe and elsewhere. It also develops solutions specific to each area of industry. This is the case with paper-making, for which NTN-SNR offers centralised or oil-recycling greasing systems, thus providing several lubrication points across these large plants. Also, where there are strict temperature constraints, the oil-recycling relubrication system allows a suitable temperature to be maintained, so that bearings run correctly.

In the steel industry, NTN-SNR installs dual-line or progressive (oil) recycling systems that allow the correct lubrication of bearings subjected to an external environment that can reach 1300°C. The progressive system, for example, comprises a pump and distributors that spread the lubricant onto the mill's four rows of rollers, for which greasing accuracy and reliability is very important.

For building/construction and agricultural machinery, where there are high levels of contamination by outside elements and loads are heavy, the choice of lubricant and greasing frequency are all the more important. NTN-SNR offers on-board, multi-point greasing systems that provide continuous lubrication for points of contact.

In addition, NTN-SNR has developed volumetric, air+oil and progressive lubrication systems for automotive manufacturers' production lines.

NTN-SNR also offers comprehensive lubrication solutions for the wind turbines sector.

LUB'SOLUTIONS, a Solution Adapted to Each Installation

NTN-SNR provides lubrication solutions for all bearings with its LUB'SOLUTIONS range of grease- and oil-based lubricants, and lubrication systems varying from standard products to custom installations.

Varied Lubrication Systems

There are three ways of lubricating. NTN-SNR offers solutions suited to every lubrication system: grease pumps for manual lubrication, single-point greasers for automatic lubrication (ECO, SMART and DRIVE BOOSTER) and lube oil consoles for centralised lubrication. The latter are adapted to the different environments and customer needs. Actually, NTN-SNR offers:

- four automatic technologies for non-recovered lubrication
 - IN'PULSE: automatic volumetric greasing (for oil or fluid grease)
 - MULTI'PULSE: automatic progressive single or multi-line greasing
 - DUO'PULSE: dual line automatic greasing
 - AIR'PULSE: automatic air/oil lubrication
- a manual pump system for non-recovered lubricant
- five pump models with accessories that make it possible to meet almost all customers' requirements
- custom oil recycling systems requiring the creation of a specific specification.

Eight Lubricants to Cover Every Environment

For ideal servicing, suitable for any situation, these lubrication systems are combined with NTN-SNR lubricants. NTN-SNR offers an easy-to-understand range of eight lubricants, suitable for different environments:

- UNIVERSAL (general use)
- HEAVY DUTY (high-load applications)
- VIB (parts subject to vibration or impacts)
- HIGH TEMP (long-lasting, high-temperature lubrication)
- FOOD (food and pharmaceutical applications)
- CHAIN OIL (for chains, including at high temperatures)
- ULTRA HIGH TEMP (long-lasting lubrication at very high temperatures)
- HIGH SPEED+ (grease for very high speeds or low temperatures).

An ingenious set of colour codes, pictograms and evocative names makes the selection of NTN-SNR lubricants easy for distributors and users.

NTN-SNR is the result of the merger of NTN and SNR ROULEMENTS in April 2008. Today, it is part of the world's third-largest bearings group, NTN Corporation, and specialises in bearings for the automotive, industrial and aeronautics sectors. It also develops services and maintenance solutions in its Experts & Tools department. NTN-SNR employs 5,128 people and has 11 production sites in Europe and Brazil and 23 sales offices around the world.

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