



THE RIGHT LUBRICANT NEEDS TO:

- Protect the bearing surfaces from corrosion
- Provide minimal hydrodynamic friction
- Provide sufficient lubricant film in the contact regions to minimise wear and friction

- **Pulkit Khemka,**
Vice President, Pensol Industries Ltd

highest standards of performance," explains Shenoy.

He adds, "NTN's Ultage Series spherical roller bearings are designed to work under extreme operating temperature of 200°C and at the same time have the highest dynamic and static load carrying capacity in the industry. They also support much higher speeds than the conventional type of spherical roller bearings. All this is available at the cost of a standard spherical roller bearing. In comparison, the rest of the bearing industry offers high temperature bearings at a premium as compared to its standard range which can operate up to 120°C only."

Doshi states, "MRS has successfully innovated special seal designs, special internal design of the rolling elements and its arrangement to provide a very high reliability of bearings in the operating application. MRS-designed products are tested to the stringent endurance

testing criteria which are normally rated higher than the application requirements."

Lall elaborates, "In an effort to increase bearing life, to improve bearing performance and extend maintenance periods, we use high quality oil and grease. We have focused on quality and technical development. Bajaj bearings are manufactured from bearing steel Grade SAE 52100 (as per international standards), with modern technologies and skilled workforce."

Make in India: Opportunities & challenges

According to Doshi, Make in India is a promising initiative by the Government of India on a long-term basis. It can attract foreign investments, increase job opportunities, grow demand for the component/support industries, and act as an avenue for generating revenues for the government, which can be pumped back into the economy through infrastructure development. He adds, "Though the initiative has its advantage, it will also

create challenges like competing against low-cost funded investments from overseas, more competition in terms of product offerings, prices and reduction in profit margins in the short term. We at MRS are well prepared to address these challenges, by making our operations more efficient, getting close to customers, and we'll focus on providing solutions which give a win-win output for us and our customers."

Shenoy comments, "Make in India is a great initiative by the government and we hope to benefit from the same. NTN has a manufacturing base in India since 2006. We have two plants: one is at Bawal, Haryana and a new one was set up in 2012 at Chennai. Our long-term plans are to increase our footprint in India and cater to every kind of industrial segment."

Zaveri also sees opportunities on one side and challenges on the other as she says, "The Make in India initiative aims at self-sufficiency of Indian industries to cater to their own requirements and create a brand image worldwide. One of the major challenges in this regard is import substitution and indigenisation of raw materials. However, the Indian auto component industry is set to become the third largest in the world by 2025 with exports quadrupling to \$40 billion by 2020. This allows us plenty of opportunities to secure a greater share of business in the growing domestic market."

Future smooth

With all the respondents positive on the emerging scenario, no doubt that the bearing industry will show considerable growth in the coming years. **BI**

- **SUDHEER VATHIYATH**



"In an effort to increase bearing life, to improve bearing performance and extend maintenance periods, we use high quality oil and grease."

Shailesh Lall,
Managing Director, Bajaj Bearings Pvt Ltd



Photo courtesy: NTN Bearing

Bearings limit the relative motion and reduce friction between the moving parts.