Press release

Rolling bearings from NKE for motors and generators

Steyr, Austria, May 2019. Bearing manufacturer NKE Austria GmbH offers a wide range of rolling bearings for electrical machines. Particularly designed for motors and generators, the bearings are noted for their low running noise, efficient seals, high load ratings and long service life. NKE presents these bearings at the Electro-Mechanical Authority (EASA) Convention in Las Vegas in June 2019.

Electric motors are the driving force behind most industries. In close cooperation with the customers, NKE develops bearing solutions for many types of electric machines, such as electric motors of various sizes and for various applications, e.g. vibrator motors, traction motors for rail vehicles as well as generators for hydro and wind turbines and UPS (uninterruptible power supply) systems. The most commonly used bearing types in these applications are cylindrical roller bearings, deep groove ball bearings and angular contact ball bearings. Besides offering cost effectiveness, all bearings must operate with low noise, be durable enough to perform to the highest standards in long term operation and, for certain bearing types, have efficient seals.

Deep groove ball bearings are suitable for locating and non-locating bearing positions on small and medium-sized electric motors and generators, and for locating bearing positions on larger motors. They are ideal for high rotating speeds and moderate radial and axial loads. The bearings are quiet-running and economical. Besides the open configuration, they can also be supplied pre-lubricated with shields or seals. Cylindrical roller bearings are usually used as non-locating bearings on the drive side in medium to large-sized motors. They are also suitable for applications with high radial loads and medium to high rotating speeds, and are available in many configurations. Electrically insulated deep groove ball bearings and cylindrical roller bearings provide protection against bearing damage from the passage of electric current. They are 100 percent interchangeable with standard bearings and are electrically insulated on the outer or inner ring. Angular contact ball bearings are used as locating bearings in electric motors with high thrust loads or vertical axis, and for high rotating

speeds. They are available in single or double row configurations as well as paired to accommodate thrust loads in both directions.

NKE offers both standard and special bearings for all industrial applications. A wide range of standard bearings is available from stock or at short production lead-times. NKE also provides customized products and solutions. In addition to product development and application engineering, NKE provides a full range of technical services, consulting, documentation and training. NKE's products are distributed through 12 international offices and more than 240 distribution outlets in 60 countries.

Image caption:
Electrically insulated rolling bearings of the SQ77 series from NKE in various sizes and designs

NKE at the 2019 EASA Convention:
EASA Convention (The Electro-Mechanical Authority), 30 June – 2 July 2019, Las Vegas, USA: Booth 338

Company information:
NKE Austria GmbH is a bearing manufacturer with headquarters in Steyr, Austria. The company was founded in 1996 by a group of senior staff members of former company Steyr Wälzlager. Spanish bearing manufacturer Fersa Bearings, which is specialised in the automotive sector, acquired 49 percent in NKE in 2016 and completed the acquisition with 100 percent at the end of 2018. NKE offers both standard and special bearings for all industrial applications. Engineering, product development, production and final processing of components, assembly, quality assurance, logistics, and sales and marketing are centralised at its Steyr headquarters. The factory in Steyr is certified to ISO 9001:2008, ISO 14001:2004 and OHSAS 18001. A wide range of standard bearings is available from stock or at short production lead-times. NKE also provides customized products and solutions. In addition to product development and application engineering NKE provides a full range of technical services, consulting, documentation and training. NKE's products are distributed through 12 international offices and more than 240 distribution outlets in 60 countries.

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