

## **NKE bearings for electrical machinery**

- > Keep motors and generators running

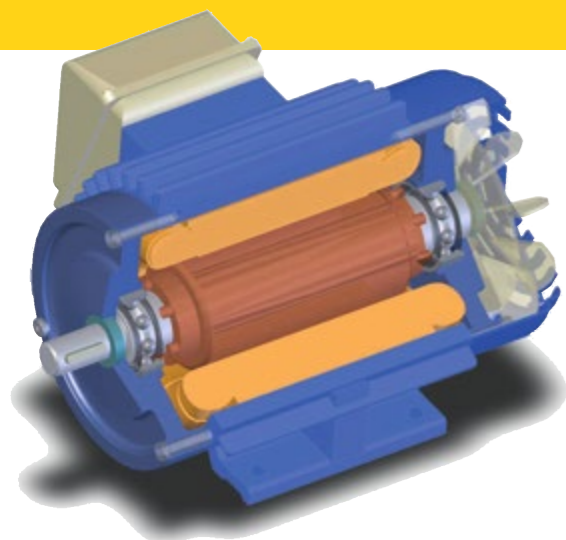
*More possibilities!*

**NKE**  
B E A R I N G S

# Your competent partner for bearings

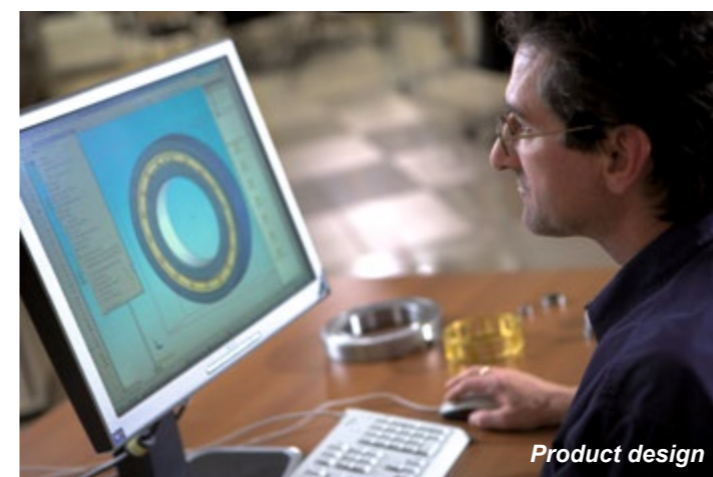
> Standard and special solutions

> Professional service support



## NKE bearings to keep motors and generators running

Electric motors are the driving force behind almost all industries. Bearings for electric motors are required to have extremely low running noise, long service life, high load capacity, efficient seals, and cost effectiveness. NKE supplies a broad range of bearings for electrical machinery, including motors and generators.



Equipped with experience and know-how, our technical and commercial teams work closely together with our customers. Our services include:

- > Application consultancy
- > Technical calculation
- > Certification support
- > Product development, design support
- > Training

## Bearings frequently used in electrical machinery:



**Cylindrical roller bearings**  
commonly used as non-locating bearings on the drive side in medium- to large-sized motors

- > suitable for high radial loads and medium to high speeds
- > many design configurations



**Deep groove ball bearings**  
for locating and non-locating positions of small- to medium-sized motors and locating positions for larger motors

- > suitable for high speeds, moderate radial and axial loads
- > quiet and economical running
- > open or ready for use – pre-lubricated with shields/seals



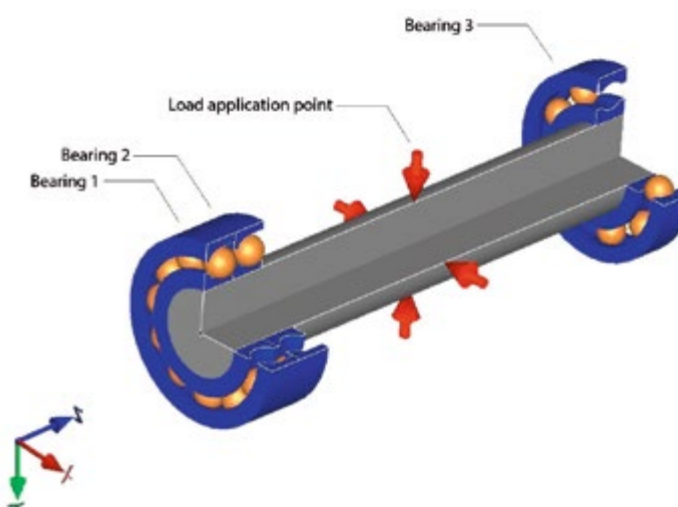
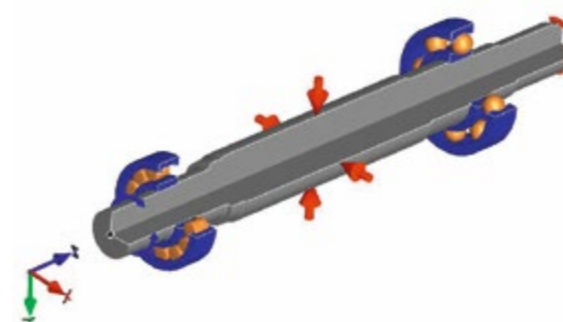
**Angular contact ball bearings**  
usually used as locating bearings in electric motors with high thrust loads or vertical axis

- > high axial load capacity
- > high speed ratings
- > single- or double-row, paired, various cage designs



**Electrically insulated bearings**

- > Deep groove ball and cylindrical roller bearings
- > Prevent damage caused by the passage of electric current
- > 100% interchangeable with standard bearings
- > Insulation coating (oxide ceramic) on outer or inner ring



## Application examples of NKE bearings in electric machinery

NKE has developed bearing solutions for numerous types of electric machinery, including:

- > Electric motors (various sizes and applications)
- > Out of balance motors (shaker screen)
- > Traction motors for railway vehicles
- > Generators for wind turbines
- > etc.



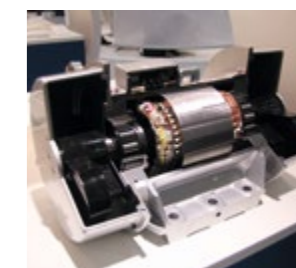
Industrial electric motor



Geared hub motor



Traction motor for rail vehicles



Out of balance motor

Ask us for the latest reference list!

NKE headquarters in Steyr – more than 10.000 m<sup>2</sup> for core functions such as engineering, production, logistics, quality assurance, marketing and sales



# NKE AUSTRIA

NKE AUSTRIA GmbH is a premium bearing manufacturer with headquarters in Steyr, Austria. The company was founded in 1996 by a group of senior staff members of the former Steyr Wälzlager.

NKE manufactures both standard and special bearings for all industrial applications. Our core competences – engineering, product development, final processing of components, assembly, quality assurance, logistics, sales and marketing – are centralised in Steyr. The site is accredited with ISO 9001:2008 (design, development, manufacturing and distribution of bearings), ISO 14001:2004 and OHSAS 18001.

For more information please contact:

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B E A R I N G S

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We offer:

- Standard bearings with a comprehensive stock range
- Tailor-made bearings for special requirements
- Technical service (e.g. consulting, documentation, training etc.)

NKE bearings are distributed through 18 international representative offices and more than 240 distribution outlets in over 60 countries.

Your local NKE partner



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