



NKE Bearings

> Keeping your wind turbines turning

More possibilities!

NKE
B E A R I N G S

Reliable bearings and competent service for wind energy applications – from NKE AUSTRIA



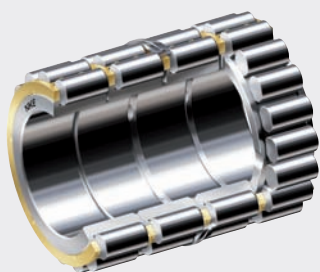
The operating conditions of wind turbines are complex and demanding; hence the bearings must work efficiently and offer supreme reliability. NKE supplies a wide range of bearings to specialised industries, including the following commonly used types for wind energy applications:

Cylindrical roller bearings

- > Suitable for high radial loads
- > Multi-row and full complement versions available for even higher radial loads
- > Special specifications (optimised geometry) and customised designs available
- > Modular system allows for standardisation of planet wheel bearings
- > Special coatings for enhanced tribological properties
- > For both gear boxes and generators

Tapered roller bearings

- > Suitable for high radial loads and thrust loads
- > Able to take up tilting moments
- > When paired, can take up thrust loads in both directions
- > Usually custom designs and for gear boxes



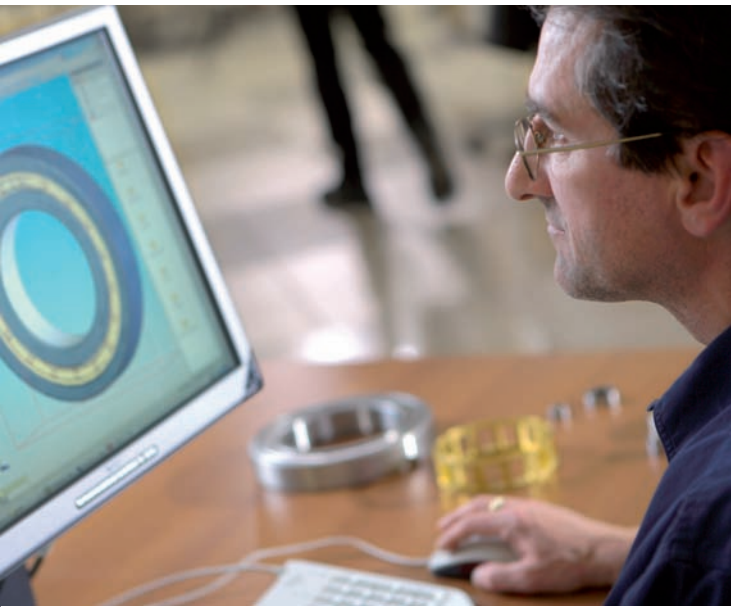
NKE multi-row cylindrical roller bearing



NKE full complement cylindrical roller bearing (without cage)



NKE tapered roller bearing



Competent services

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

Our services include:

- > Consultancy
- > Technical calculation
- > Certification support
- > Product development, design support
- > Training

Ask us for the latest reference list!

Spherical roller bearings

- > Suitable for large radial loads and low to medium speeds
- > Allows compensation for misalignment
- > Usually for main shafts and gear boxes

Four-point contact ball bearings

- > Able to take up thrust and limited radial loads
- > Easy mounting due to split inner rings
- > Standard cage material: solid, one-piece brass cage (MPA)
- > Usually for output shaft

Deep groove ball bearings

- > Suitable for very high rotating speeds
- > Well suited for medium high radial and axial loads in one or both directions
- > Numerous clearance and tolerance classes available for different operating conditions
- > Mainly for generators and gearboxes



NKE spherical roller bearing



NKE four-point contact ball bearings



NKE deep groove ball bearings
(with insulation coating on outer ring)

Electrically insulated bearings

- > Preventing damages caused by passage of electric currents
- > 100% interchangeable with standard bearings
- > Depending on size and type of bearings, several versions available:
 - insulation coating (oxide ceramic) on outer or inner ring
 - hybrid bearings with oxide ceramic rolling elements

NKE headquarters in Steyr – more than 4,600 m² (10,000 m² from mid 2009) 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 ISO9001:2000 (design, development, manufacturing and distribution of bearings) and ISO14001:2004.

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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 15 international representative offices and more than 240 distribution outlets in over 60 countries.



Your local NKE partner

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