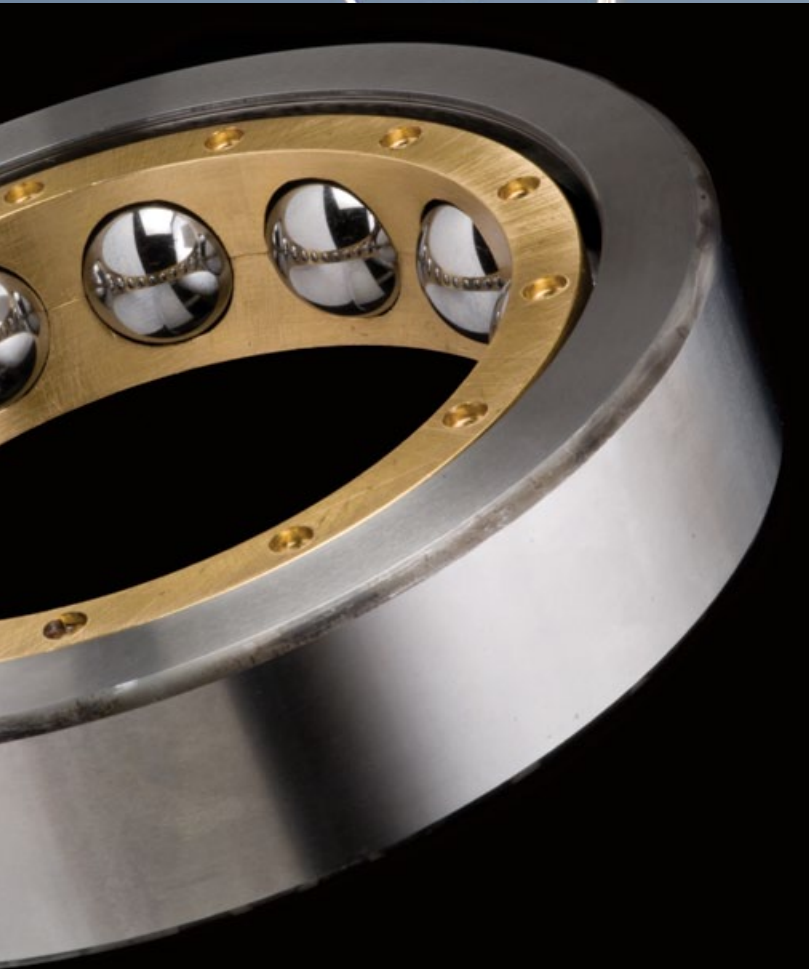


*Serving Industries Worldwide*

# **Wind Turbine Bearings**



*Manufacturers of Ball and Roller Bearings*



**SCHEERER**  
BEARING CORPORATION



*Bearings in wind turbines operate at the extremes of operational environments in terms of temperature, load fluctuation, maintenance access and lubricant optimization. As rotor diameters increase, confidence in your bearings becomes even more critical.*

# **Achieve Peak Performance in Wind Turbines**



**S**cheerer provides wind turbine manufacturers high-performance bearings designed for the unique stresses of these ultra-large machines.

Environmental considerations, component durability requirements, manufacturing limitations, material choices, load fluctuation, lubrication options and mounting all influence the success of a bearing design. Talk to us and see for yourself why Scheerer has been a trusted bearing supplier for industries that think big.

#### **A Trusted Energy Partner**

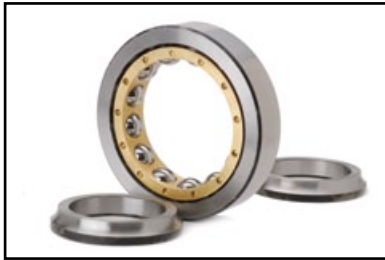
Scheerer Bearing has been an energy industry partner since its founding. Our comprehensive, state-of-the-art bearing product line is ideally suited for the wind turbine market. Scheerer brings decades of engineering expertise focused exclusively on the highest performance ball and roller bearing design and bearing assemblies. We've achieved a reputation for helping manufacturers maximize output efficiencies by tailoring the bearing design to the unique functional needs of their equipment. The push toward coastal wind farms will present challenges

different from land based turbines. Our experience with large scale bearings operating in marine environments can be a valuable asset in your design.

#### **A Reputation for Quality, Service and Craftsmanship**

Scheerer Bearing has been manufacturing and rebuilding industrial bearings for nearly five decades. We have the knowledge and experience required to service bearings of virtually every category, material and operating environment.

# Putting the Best in Bearing Technology to Work



## Split Inner Radial Ball Bearing

Four-point contact ball bearings can carry considerable axial load in both directions in a very confined space. These bearings provide excellent cost-performance ratio.



## Full Complement Cylindrical Roller Bearing

This bearing category provides the highest possible load carrying capacity within an allotted volume. This translates to increased equipment reliability with lower installed weight. These bearings are ideally suited to critical applications where the weight must be lifted to considerable heights.



## Radial Ball Bearing

Scheerer Radial ball bearings deliver ease of installation and are ideal for applications where equipment reliability is paramount and component availability is critical.



## Spherical Roller Bearings

Double-row spherical roller bearings are capable of carrying heavy loads in both radial and axial directions. They are self-aligning, thus compensating for shaft deflections and seat misalignment. Available in a variety of standard and special designs, with cylindrical and tapered bore.



## Slewing Bearings

The Slewing bearing can reliably support radial, axial and tilting moment loads. They can be divided into different structures of no gear type, external gear type or internal gear type. Scheerer manufactures both four point contact ball bearings (higher dynamic load capacity) and cross cylindrical roller slewing bearings (higher static load capacity). Available in single or double row.



## Recondition for Maximum Value

Wind farm operators are finally enjoying a competitive (per KW) position compared to traditional fossil fuel generated electricity. This highly-competitive environment puts wind-produced energy in a new position where continued cost reductions will only encourage adoption and development of the technology by companies and nations. Scheerer can help companies committed to wind energy get the most from their bearings. At any given time, our reconditioning division is busy inspecting, assessing and refurbishing bearings of all types to their originally installed condition. This can achieve a savings of as much as 60% compared to building a new bearing. This is especially true for large bearings.

## Guarantee

Scheerer Bearing guarantees that any bearing we manufacture or rework is free from defects in workmanship or material. Any bearing which is proven to be defective within one year from date of purchase will be replaced or reworked free of charge if the defective bearing is returned, charges prepaid, to Willow Grove, PA and the bearing is found to have been properly installed, lubricated, and used.

# ***Scheerer Product Line & Services***

## **RADIAL BALL BEARINGS**

Single Row Deep Groove  
Double Row Deep Groove  
Angular Contact  
Double Row Angular Contact  
Max-Capacity  
Self-Aligning  
Four Point Contact  
Split Inner Race  
Reciprocating  
All Special Types

## **BALL THRUST BEARINGS**

Flat seat-Grooved Races  
Flat seat-Flat races  
Self-Aligning  
Banded  
Single or Double Acting  
Combination  
Angular Contact  
All Special Types

## **OTHER PRODUCTS**

Combination Radial and Thrust Bearings  
Large Diameter to over 100"  
All Types of Special Bearings  
Hardened and Ground Sleeves  
Bearing Components  
Slewing Ring Bearings

## **RADIAL ROLLER BEARINGS**

Cylindrical  
Single Row  
Multi-Row  
Cross Roller  
Journal  
All Special Types

## **ROLLER THRUST BEARINGS**

Plain Type  
Washers Only  
Self-Aligning  
Crane Hook  
Combination  
Single Acting  
Double Acting  
All Special Types

## **SERVICES**

Bearing Repair and Reconditioning  
Clearance Changes  
Bore Tapering  
Flush Grinding & Preloading  
W-33 and W-26 Feature Additions  
Snap Ring Grooving  
Inspection Services  
Ceramic Ball Installation  
Special Coating Applications



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