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Global Wind Turbine Blade Bearing (Pitch Bearing) Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G2F738E2A1EEEN.html
Date: July 2026
Pages: 154
Price: US$ 4,480.00 (Single User License)
ID: G2F738E2A1EEEN

Abstracts

The global Wind Turbine Blade Bearing (Pitch Bearing) market size is expected to reach $ 3226 million by 2032, rising at a market growth of 10.4% CAGR during the forecast period (2026-2032).

Wind turbine blade bearings, commonly known as pitch bearings, are large precision slewing bearings installed between the blade root and the rotor hub of a wind turbine. Their core function is to support the blade as it rotates around its own axis for pitch angle adjustment under strong alternating loads, axial forces, radial forces, overturning moments, low-speed oscillation, and long-term outdoor operating conditions, thereby enabling power output optimization, start-up and shutdown control, extreme wind condition protection, and turbine safety braking. These products typically adopt four-point contact ball bearings, double-row four-point contact ball bearings, three-row cylindrical roller bearings, or customized slewing bearing structures, and integrate preloaded raceways, gear rings, cages, sealing systems, lubrication channels, surface corrosion protection, heat treatment, and service life validation testing to improve load capacity, low-friction performance, fatigue resistance, and lifecycle reliability. Typical applications include onshore wind turbines, offshore wind turbines, large-megawatt turbines, existing turbine retrofits, and spare-part replacement, while key customers include wind turbine OEMs, wind farm owners, operation and maintenance service providers, and large bearing system suppliers.

The industrial value of wind turbine blade bearings is shifting from that of a single mechanical support component to a critical foundational component within the turbine power control and safety protection system. As blade length and turbine rated capacity continue to increase, the diameter, load capacity, raceway fatigue life, sealing weather resistance and low-friction performance of pitch bearings have become important

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constraints on overall turbine reliability. Future competition will focus on large-megawatt load-bearing structures, offshore corrosion-resistant sealing, lifecycle validation, condition monitoring and low-maintenance design capability.

From an industry structure perspective, the wind turbine blade bearing market features both global specialized supply and regionalized supporting production. European companies have deep experience in large slewing rings, pitch bearing units, special sealing, life testing and offshore wind applications, while Chinese companies, supported by a large wind turbine manufacturing system and strong new installation demand, are expanding rapidly in yaw and pitch bearings, main shaft bearings and gearbox bearings. Future competition among leading companies will not be driven only by price, but more by large-megawatt application experience, failure analysis capability, maintenance service networks and joint development capability with wind turbine OEMs.

Demand growth is mainly supported by global new wind installations, offshore wind expansion, large-megawatt onshore turbine upgrades and the aftermarket of installed turbines. New turbine installations directly create first-fit demand for three pitch bearings per three-bladed turbine, while the expanding installed base creates stable aftermarket demand for spare-part replacement, lifetime extension retrofit, blade upgrade and condition monitoring. Over the medium and long term, electricity demand growth, energy transition, offshore wind expansion and turbine upscaling will continue to support steady growth in the pitch bearing market.

This report studies the global Wind Turbine Blade Bearing (Pitch Bearing) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Wind Turbine Blade Bearing (Pitch Bearing) and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Wind Turbine Blade Bearing (Pitch Bearing) that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Wind Turbine Blade Bearing (Pitch Bearing) total production and demand, 2021-2032, (Units)
Global Wind Turbine Blade Bearing (Pitch Bearing) total production value, 2021-2032, (USD Million)
Global Wind Turbine Blade Bearing (Pitch Bearing) production by region & country,

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production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Wind Turbine Blade Bearing (Pitch Bearing) consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: Wind Turbine Blade Bearing (Pitch Bearing) domestic production, consumption, key domestic manufacturers and share
Global Wind Turbine Blade Bearing (Pitch Bearing) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Wind Turbine Blade Bearing (Pitch Bearing) production by Ring Gear Configuration, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Wind Turbine Blade Bearing (Pitch Bearing) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Wind Turbine Blade Bearing (Pitch Bearing) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SKF, Defontaine SAS (Rollix), Laulagun Bearings, Liebherr Group, Dalian Metallurgical Bearing Group, Wafangdian Bearing Group Corp., Ltd., IMO GmbH & Co. KG, The Timken Company, Zhejiang Tianma Precision Group Co., Ltd., NSK Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Wind Turbine Blade Bearing (Pitch Bearing) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (US$/Unit) by manufacturer, by Ring Gear Configuration, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Wind Turbine Blade Bearing (Pitch Bearing) Market, By Region:

United States

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China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Wind Turbine Blade Bearing (Pitch Bearing) Market, Segmentation by Ring Gear Configuration:

Internal Gear

External Gear

Gearless

Other

Global Wind Turbine Blade Bearing (Pitch Bearing) Market, Segmentation by Power Rating:

Below 3 MW

3 MW to 8 MW

Above 8 MW

Other

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Global Wind Turbine Blade Bearing (Pitch Bearing) Market, Segmentation by Cage Structure:

Segmented Cage

Integral Steel Cage

Self-Lubricating Spacer Block

Wear-Resistant Insert Cage

Other

Global Wind Turbine Blade Bearing (Pitch Bearing) Market, Segmentation by Application:

New Turbine Installation

Existing Turbine Replacement

Blade Upgrade Retrofit

Other

Companies Profiled:

SKF

Defontaine SAS (Rollix)

Laulagun Bearings

Liebherr Group

Dalian Metallurgical Bearing Group

Wafangdian Bearing Group Corp., Ltd.

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IMO GmbH & Co. KG

The Timken Company

Zhejiang Tianma Precision Group Co., Ltd.

NSK Ltd.

NTN Corporation

thyssenkrupp rothe erde Germany GmbH

Schaeffler AG

Kaydon Bearings

Luoyang Xinqianglian Slewing Bearing Co., Ltd.

Luoyang LYC Bearing Co., Ltd.

ZYS Bearing Research Institute Co., Ltd.

CS BEARING Co., Ltd.

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Key Questions Answered:
1. How big is the global Wind Turbine Blade Bearing (Pitch Bearing) market?
2. What is the demand of the global Wind Turbine Blade Bearing (Pitch Bearing) market?
3. What is the year over year growth of the global Wind Turbine Blade Bearing (Pitch Bearing) market?
4. What is the production and production value of the global Wind Turbine Blade Bearing (Pitch Bearing) market?
5. Who are the key producers in the global Wind Turbine Blade Bearing (Pitch Bearing) market?
6. What are the growth factors driving the market demand?

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