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Global Wind Power Torque Protection Device Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Wind Power Torque Protection Device market size is expected to reach $ 335 million by 2032, rising at a market growth of 5.3% CAGR during the forecast period (2026-2032).

In 2025, global sales of Wind Power Torque Protection Device reached approximately 17,900 units, with an average market price of about USD 12,648.04 unit, an annual production capacity of roughly 20,500 units, and an industry-average gross margin of approximately 43%.

A Wind Power Torque Protection Device is a mechanical overload-protection device installed within a turbine drivetrain or auxiliary drive system. Its principal application is the high-speed shaft connection between the gearbox and generator, although torque-limiting mechanisms may also be integrated into yaw and pitch drives. Typical assemblies incorporate friction interfaces, spring-loaded clamping systems, slipping units, mechanical disengagement elements or hydraulically released sleeves, and may be supplied as part of a complete wind turbine coupling package together with flexible disc packs, composite spacers, brake discs, electrical insulation and monitoring electronics. When abnormal torque arises from generator short circuits, low-voltage ride-through events, reverse torque, sudden aerodynamic loads, yaw obstruction or other transient conditions, the device slips, disengages or releases at a calibrated torque threshold, thereby limiting the peak load transmitted to the gearbox, shafts, bearings and drive components. Depending on the design, the device may automatically re-engage once the overload subsides or require manual or hydraulic resetting. Key performance parameters include rated torque, slipping or release torque, trigger tolerance, maximum rotational speed, energy and thermal capacity, bidirectional operation, resetting method, electrical insulation, corrosion resistance and permissible

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operating temperature. Its central function is to provide an independent mechanical protection layer that reduces drivetrain damage, unplanned downtime and lifecycle maintenance costs.

The Wind Power Torque Protection Device market is best understood as a specialized functional segment within the broader wind turbine coupling and drive-system supply chain rather than as a fully independent standard-component industry. The dominant product architecture is a friction-based slipping unit integrated into the high-speed shaft coupling between the gearbox and generator. A smaller but strategically relevant segment consists of torque-limiting mechanisms incorporated into yaw and pitch drive systems. Because suppliers frequently deliver the limiter as part of a complete coupling, gearbox-drive or auxiliary-drive assembly, the reported revenue of those larger systems cannot be used directly as the addressable market value. This study therefore applies a narrow functional-revenue approach that allocates only the value attributable to mechanical torque limitation, including new-turbine installations, aftermarket replacements and retrofit upgrades. Large customized safety couplings used exclusively on wind turbine drivetrain test benches are retained in the extended manufacturer pool but excluded from the operating-turbine revenue model. This distinction explains why the broad longlist is materially larger than the core formal supplier list.

From a supply perspective, the market is structured around established European drivetrain specialists, focused North American coupling and overload-protection suppliers, emerging Chinese wind component manufacturers and a limited number of regional Asian producers. German and other European suppliers retain strong positions in engineered wind couplings, calibrated friction systems, hydraulic release mechanisms and digitally monitored safety couplings. North American suppliers are particularly visible in shaft-mounted products, aftermarket replacement solutions and packaged high-speed coupling systems. Chinese companies are expanding from conventional wind couplings and locking devices into integrated assemblies incorporating torque limiters, electrical insulation, brake discs and condition-monitoring functions.

Report Scope

This report studies the global Wind Power Torque Protection Device production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Wind Power Torque Protection Device and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand

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trends and competition, as well as details the characteristics of Wind Power Torque Protection Device that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Wind Power Torque Protection Device total production and demand, 2021-2032, (Units)

Global Wind Power Torque Protection Device total production value, 2021-2032, (USD Million)

Global Wind Power Torque Protection Device production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Wind Power Torque Protection Device consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Wind Power Torque Protection Device domestic production, consumption, key domestic manufacturers and share

Global Wind Power Torque Protection Device production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Wind Power Torque Protection Device production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Wind Power Torque Protection Device production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Wind Power Torque Protection Device 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 KTR Systems GmbH, Flender GmbH, Regal Rexnord Corporation, Wuxi TRUMY Transmission Engineering Co., Ltd., Zero-Max, Inc., Dellner Wind Solutions, The Timken Company, Bonfiglioli S.p.A., JAC Coupling Co., Ltd., Qingdao Paguld Intelligent Manufacturing Co., Ltd., etc.

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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 Power Torque Protection Device 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 Type, 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 Power Torque Protection Device Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Wind Power Torque Protection Device Market, Segmentation by Type:

Friction Slip Torque Limiters

Shear Pin Torque Limiters

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Ball-detent Torque Limiters

Others

Global Wind Power Torque Protection Device Market, Segmentation by Power:

Below 2 MW

2 -5 MW

5 - 10 MW

Above 10 MW

Global Wind Power Torque Protection Device Market, Segmentation by Form:

Standalone Shaft-mounted

Coupling-integrated

Global Wind Power Torque Protection Device Market, Segmentation by Application:

Offshore Wind Power

Onshore Wind Power

Companies Profiled:

KTR Systems GmbH

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Flender GmbH

Regal Rexnord Corporation

Wuxi TRUMY Transmission Engineering Co., Ltd.

Zero-Max, Inc.

Dellner Wind Solutions

The Timken Company

Bonfiglioli S.p.A.

JAC Coupling Co., Ltd.

Qingdao Paguld Intelligent Manufacturing Co., Ltd.

ComInTec S.r.l.

Kudosworld Transmission Equipment Co., Ltd.

Chr. Mayr GmbH + Co. KG

Luoyang Xinqianglian Slewing Bearing Co., Ltd.

Rokee Industrial Technology (Jiangsu) Co., Ltd.

Detech Power Transmission Machinery (Jinan) Co., Ltd.

Key Questions Answered:

1. How big is the global Wind Power Torque Protection Device market?
2. What is the demand of the global Wind Power Torque Protection Device market?
3. What is the year over year growth of the global Wind Power Torque Protection Device market?
4. What is the production and production value of the global Wind Power Torque

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Protection Device market?
5. Who are the key producers in the global Wind Power Torque Protection Device market?
6. What are the growth factors driving the market demand?

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