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

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Abstracts

The global Wind Turbine 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 Turbine 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 Turbine 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 Turbine 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 Turbine Torque Protection Device production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Wind Turbine 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 Turbine Torque Protection Device that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Wind Turbine 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 Turbine 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 Turbine Torque Protection Device Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Below 2 MW

2 -5 MW

5 - 10 MW

Above 10 MW

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

Standalone Shaft-mounted

Coupling-integrated

Global Wind Turbine 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 Turbine Torque Protection Device market?
2. What is the demand of the global Wind Turbine Torque Protection Device market?
3. What is the year over year growth of the global Wind Turbine Torque Protection Device market?
4. What is the production and production value of the global Wind Turbine Torque

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

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Contents

1 SUPPLY SUMMARY
1.1 Wind Turbine Torque Protection Device Introduction
1.2 World Wind Turbine Torque Protection Device Supply & Forecast
  1.2.1 World Wind Turbine Torque Protection Device Production Value (2021 & 2025 & 2032)
  1.2.2 World Wind Turbine Torque Protection Device Production (2021-2032)
  1.2.3 World Wind Turbine Torque Protection Device Pricing Trends (2021-2032)
1.3 World Wind Turbine Torque Protection Device Production by Region (Based on Production Site)
  1.3.1 World Wind Turbine Torque Protection Device Production Value by Region (2021-2032)
  1.3.2 World Wind Turbine Torque Protection Device Production by Region (2021-2032)
  1.3.3 World Wind Turbine Torque Protection Device Average Price by Region (2021-2032)
  1.3.4 North America Wind Turbine Torque Protection Device Production (2021-2032)
  1.3.5 Europe Wind Turbine Torque Protection Device Production (2021-2032)
  1.3.6 China Wind Turbine Torque Protection Device Production (2021-2032)
  1.3.7 Japan Wind Turbine Torque Protection Device Production (2021-2032)
1.4 Market Drivers, Restraints and Trends
  1.4.1 Wind Turbine Torque Protection Device Market Drivers
  1.4.2 Factors Affecting Demand
  1.4.3 Wind Turbine Torque Protection Device Major Market Trends

2 DEMAND SUMMARY
2.1 World Wind Turbine Torque Protection Device Demand (2021-2032)
2.2 World Wind Turbine Torque Protection Device Consumption by Region
  2.2.1 World Wind Turbine Torque Protection Device Consumption by Region (2021-2026)
  2.2.2 World Wind Turbine Torque Protection Device Consumption Forecast by Region (2027-2032)
2.3 United States Wind Turbine Torque Protection Device Consumption (2021-2032)
2.4 China Wind Turbine Torque Protection Device Consumption (2021-2032)
2.5 Europe Wind Turbine Torque Protection Device Consumption (2021-2032)
2.6 Japan Wind Turbine Torque Protection Device Consumption (2021-2032)
2.7 South Korea Wind Turbine Torque Protection Device Consumption (2021-2032)
2.8 ASEAN Wind Turbine Torque Protection Device Consumption (2021-2032)

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2.9 India Wind Turbine Torque Protection Device Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS
3.1 World Wind Turbine Torque Protection Device Production Value by Manufacturer (2021-2026)
3.2 World Wind Turbine Torque Protection Device Production by Manufacturer (2021-2026)
3.3 World Wind Turbine Torque Protection Device Average Price by Manufacturer (2021-2026)
3.4 Wind Turbine Torque Protection Device Company Evaluation Quadrant
3.5 Industry Rank and Concentration Rate (CR)
3.5.1 Global Wind Turbine Torque Protection Device Industry Rank of Major Manufacturers
3.5.2 Global Concentration Ratios (CR4) for Wind Turbine Torque Protection Device in 2025
3.5.3 Global Concentration Ratios (CR8) for Wind Turbine Torque Protection Device in 2025
3.6 Wind Turbine Torque Protection Device Market: Overall Company Footprint Analysis
3.6.1 Wind Turbine Torque Protection Device Market: Region Footprint
3.6.2 Wind Turbine Torque Protection Device Market: Company Product Type Footprint
3.6.3 Wind Turbine Torque Protection Device Market: Company Product Application Footprint
3.7 Competitive Environment
3.7.1 Historical Structure of the Industry
3.7.2 Barriers of Market Entry
3.7.3 Factors of Competition
3.8 New Entrant and Capacity Expansion Plans
3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD
4.1 United States VS China: Wind Turbine Torque Protection Device Production Value Comparison
4.1.1 United States VS China: Wind Turbine Torque Protection Device Production Value Comparison (2021 & 2025 & 2032)
4.1.2 United States VS China: Wind Turbine Torque Protection Device Production Value Market Share Comparison (2021 & 2025 & 2032)
4.2 United States VS China: Wind Turbine Torque Protection Device Production

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info@marketpublishers.com

Comparison
4.2.1 United States VS China: Wind Turbine Torque Protection Device Production Comparison (2021 & 2025 & 2032)
4.2.2 United States VS China: Wind Turbine Torque Protection Device Production Market Share Comparison (2021 & 2025 & 2032)
4.3 United States VS China: Wind Turbine Torque Protection Device Consumption Comparison
4.3.1 United States VS China: Wind Turbine Torque Protection Device Consumption Comparison (2021 & 2025 & 2032)
4.3.2 United States VS China: Wind Turbine Torque Protection Device Consumption Market Share Comparison (2021 & 2025 & 2032)
4.4 United States Based Wind Turbine Torque Protection Device Manufacturers and Market Share, 2021-2026
4.4.1 United States Based Wind Turbine Torque Protection Device Manufacturers, Headquarters and Production Site (States, Country)
4.4.2 United States Based Manufacturers Wind Turbine Torque Protection Device Production Value (2021-2026)
4.4.3 United States Based Manufacturers Wind Turbine Torque Protection Device Production (2021-2026)
4.5 China Based Wind Turbine Torque Protection Device Manufacturers and Market Share
4.5.1 China Based Wind Turbine Torque Protection Device Manufacturers, Headquarters and Production Site (Province, Country)
4.5.2 China Based Manufacturers Wind Turbine Torque Protection Device Production Value (2021-2026)
4.5.3 China Based Manufacturers Wind Turbine Torque Protection Device Production (2021-2026)
4.6 Rest of World Based Wind Turbine Torque Protection Device Manufacturers and Market Share, 2021-2026
4.6.1 Rest of World Based Wind Turbine Torque Protection Device Manufacturers, Headquarters and Production Site (State, Country)
4.6.2 Rest of World Based Manufacturers Wind Turbine Torque Protection Device Production Value (2021-2026)
4.6.3 Rest of World Based Manufacturers Wind Turbine Torque Protection Device Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Wind Turbine Torque Protection Device Market Size Overview by Type: 2021 VS 2025 VS 2032

+357 96 030922
info@marketpublishers.com

5.2 Segment Introduction by Type
5.2.1 Friction Slip Torque Limiters
5.2.2 Shear Pin Torque Limiters
5.2.3 Ball-detent Torque Limiters
5.2.4 Others
5.3 Market Segment by Type
5.3.1 World Wind Turbine Torque Protection Device Production by Type (2021-2032)
5.3.2 World Wind Turbine Torque Protection Device Production Value by Type (2021-2032)
5.3.3 World Wind Turbine Torque Protection Device Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY POWER
6.1 World Wind Turbine Torque Protection Device Market Size Overview by Power: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Power
6.2.1 Below 2 MW
6.2.2 2 -5 MW
6.2.3 5 - 10 MW
6.2.4 Above 10 MW
6.3 Market Segment by Power
6.3.1 World Wind Turbine Torque Protection Device Production by Power (2021-2032)
6.3.2 World Wind Turbine Torque Protection Device Production Value by Power (2021-2032)
6.3.3 World Wind Turbine Torque Protection Device Average Price by Power (2021-2032)

7 MARKET ANALYSIS BY FORM
7.1 World Wind Turbine Torque Protection Device Market Size Overview by Form: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Form
7.2.1 Standalone Shaft-mounted
7.2.2 Coupling-integrated
7.3 Market Segment by Form
7.3.1 World Wind Turbine Torque Protection Device Production by Form (2021-2032)
7.3.2 World Wind Turbine Torque Protection Device Production Value by Form (2021-2032)
7.3.3 World Wind Turbine Torque Protection Device Average Price by Form (2021-2032)

+357 96 030922
info@marketpublishers.com

8 MARKET ANALYSIS BY APPLICATION
8.1 World Wind Turbine Torque Protection Device Market Size Overview by Application: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Application
8.2.1 Offshore Wind Power
8.2.2 Onshore Wind Power
8.3 Market Segment by Application
8.3.1 World Wind Turbine Torque Protection Device Production by Application (2021-2032)
8.3.2 World Wind Turbine Torque Protection Device Production Value by Application (2021-2032)
8.3.3 World Wind Turbine Torque Protection Device Average Price by Application (2021-2032)

9 COMPANY PROFILES
9.1 KTR Systems GmbH
9.1.1 KTR Systems GmbH Details
9.1.2 KTR Systems GmbH Major Business
9.1.3 KTR Systems GmbH Wind Turbine Torque Protection Device Product and Services
9.1.4 KTR Systems GmbH Wind Turbine Torque Protection Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.1.5 KTR Systems GmbH Recent Developments/Updates
9.1.6 KTR Systems GmbH Competitive Strengths & Weaknesses
9.2 Flender GmbH
9.2.1 Flender GmbH Details
9.2.2 Flender GmbH Major Business
9.2.3 Flender GmbH Wind Turbine Torque Protection Device Product and Services
9.2.4 Flender GmbH Wind Turbine Torque Protection Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.2.5 Flender GmbH Recent Developments/Updates
9.2.6 Flender GmbH Competitive Strengths & Weaknesses
9.3 Regal Rexnord Corporation
9.3.1 Regal Rexnord Corporation Details
9.3.2 Regal Rexnord Corporation Major Business
9.3.3 Regal Rexnord Corporation Wind Turbine Torque Protection Device Product and Services
9.3.4 Regal Rexnord Corporation Wind Turbine Torque Protection Device Production,

+357 96 030922
info@marketpublishers.com

Price, Value, Gross Margin and Market Share (2021-2026)
9.3.5 Regal Rexnord Corporation Recent Developments/Updates
9.3.6 Regal Rexnord Corporation Competitive Strengths & Weaknesses
9.4 Wuxi TRUMY Transmission Engineering Co., Ltd.
9.4.1 Wuxi TRUMY Transmission Engineering Co., Ltd. Details
9.4.2 Wuxi TRUMY Transmission Engineering Co., Ltd. Major Business
9.4.3 Wuxi TRUMY Transmission Engineering Co., Ltd. Wind Turbine Torque Protection Device Product and Services
9.4.4 Wuxi TRUMY Transmission Engineering Co., Ltd. Wind Turbine Torque Protection Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.4.5 Wuxi TRUMY Transmission Engineering Co., Ltd. Recent Developments/Updates
9.4.6 Wuxi TRUMY Transmission Engineering Co., Ltd. Competitive Strengths & Weaknesses
9.5 Zero-Max, Inc.
9.5.1 Zero-Max, Inc. Details
9.5.2 Zero-Max, Inc. Major Business
9.5.3 Zero-Max, Inc. Wind Turbine Torque Protection Device Product and Services
9.5.4 Zero-Max, Inc. Wind Turbine Torque Protection Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.5.5 Zero-Max, Inc. Recent Developments/Updates
9.5.6 Zero-Max, Inc. Competitive Strengths & Weaknesses
9.6 Dellner Wind Solutions
9.6.1 Dellner Wind Solutions Details
9.6.2 Dellner Wind Solutions Major Business
9.6.3 Dellner Wind Solutions Wind Turbine Torque Protection Device Product and Services
9.6.4 Dellner Wind Solutions Wind Turbine Torque Protection Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.6.5 Dellner Wind Solutions Recent Developments/Updates
9.6.6 Dellner Wind Solutions Competitive Strengths & Weaknesses
9.7 The Timken Company
9.7.1 The Timken Company Details
9.7.2 The Timken Company Major Business
9.7.3 The Timken Company Wind Turbine Torque Protection Device Product and Services
9.7.4 The Timken Company Wind Turbine Torque Protection Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

+357 96 030922
info@marketpublishers.com

9.7.5 The Timken Company Recent Developments/Updates
9.7.6 The Timken Company Competitive Strengths & Weaknesses
9.8 Bonfiglioli S.p.A.
9.8.1 Bonfiglioli S.p.A. Details
9.8.2 Bonfiglioli S.p.A. Major Business
9.8.3 Bonfiglioli S.p.A. Wind Turbine Torque Protection Device Product and Services
9.8.4 Bonfiglioli S.p.A. Wind Turbine Torque Protection Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.8.5 Bonfiglioli S.p.A. Recent Developments/Updates
9.8.6 Bonfiglioli S.p.A. Competitive Strengths & Weaknesses
9.9 JAC Coupling Co., Ltd.
9.9.1 JAC Coupling Co., Ltd. Details
9.9.2 JAC Coupling Co., Ltd. Major Business
9.9.3 JAC Coupling Co., Ltd. Wind Turbine Torque Protection Device Product and Services
9.9.4 JAC Coupling Co., Ltd. Wind Turbine Torque Protection Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.9.5 JAC Coupling Co., Ltd. Recent Developments/Updates
9.9.6 JAC Coupling Co., Ltd. Competitive Strengths & Weaknesses
9.10 Qingdao Paguld Intelligent Manufacturing Co., Ltd.
9.10.1 Qingdao Paguld Intelligent Manufacturing Co., Ltd. Details
9.10.2 Qingdao Paguld Intelligent Manufacturing Co., Ltd. Major Business
9.10.3 Qingdao Paguld Intelligent Manufacturing Co., Ltd. Wind Turbine Torque Protection Device Product and Services
9.10.4 Qingdao Paguld Intelligent Manufacturing Co., Ltd. Wind Turbine Torque Protection Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.10.5 Qingdao Paguld Intelligent Manufacturing Co., Ltd. Recent Developments/Updates
9.10.6 Qingdao Paguld Intelligent Manufacturing Co., Ltd. Competitive Strengths & Weaknesses
9.11 ComInTec S.r.l.
9.11.1 ComInTec S.r.l. Details
9.11.2 ComInTec S.r.l. Major Business
9.11.3 ComInTec S.r.l. Wind Turbine Torque Protection Device Product and Services
9.11.4 ComInTec S.r.l. Wind Turbine Torque Protection Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.11.5 ComInTec S.r.l. Recent Developments/Updates
9.11.6 ComInTec S.r.l. Competitive Strengths & Weaknesses

+357 96 030922
info@marketpublishers.com

9.12 Kudosworld Transmission Equipment Co., Ltd.
9.12.1 Kudosworld Transmission Equipment Co., Ltd. Details
9.12.2 Kudosworld Transmission Equipment Co., Ltd. Major Business
9.12.3 Kudosworld Transmission Equipment Co., Ltd. Wind Turbine Torque Protection Device Product and Services
9.12.4 Kudosworld Transmission Equipment Co., Ltd. Wind Turbine Torque Protection Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.12.5 Kudosworld Transmission Equipment Co., Ltd. Recent Developments/Updates
9.12.6 Kudosworld Transmission Equipment Co., Ltd. Competitive Strengths & Weaknesses
9.13 Chr. Mayr GmbH + Co. KG
9.13.1 Chr. Mayr GmbH + Co. KG Details
9.13.2 Chr. Mayr GmbH + Co. KG Major Business
9.13.3 Chr. Mayr GmbH + Co. KG Wind Turbine Torque Protection Device Product and Services
9.13.4 Chr. Mayr GmbH + Co. KG Wind Turbine Torque Protection Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.13.5 Chr. Mayr GmbH + Co. KG Recent Developments/Updates
9.13.6 Chr. Mayr GmbH + Co. KG Competitive Strengths & Weaknesses
9.14 Luoyang Xinqianglian Slewing Bearing Co., Ltd.
9.14.1 Luoyang Xinqianglian Slewing Bearing Co., Ltd. Details
9.14.2 Luoyang Xinqianglian Slewing Bearing Co., Ltd. Major Business
9.14.3 Luoyang Xinqianglian Slewing Bearing Co., Ltd. Wind Turbine Torque Protection Device Product and Services
9.14.4 Luoyang Xinqianglian Slewing Bearing Co., Ltd. Wind Turbine Torque Protection Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.14.5 Luoyang Xinqianglian Slewing Bearing Co., Ltd. Recent Developments/Updates
9.14.6 Luoyang Xinqianglian Slewing Bearing Co., Ltd. Competitive Strengths & Weaknesses
9.15 Rokee Industrial Technology (Jiangsu) Co., Ltd.
9.15.1 Rokee Industrial Technology (Jiangsu) Co., Ltd. Details
9.15.2 Rokee Industrial Technology (Jiangsu) Co., Ltd. Major Business
9.15.3 Rokee Industrial Technology (Jiangsu) Co., Ltd. Wind Turbine Torque Protection Device Product and Services
9.15.4 Rokee Industrial Technology (Jiangsu) Co., Ltd. Wind Turbine Torque Protection Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.15.5 Rokee Industrial Technology (Jiangsu) Co., Ltd. Recent Developments/Updates

+357 96 030922
info@marketpublishers.com

9.15.6 Rokee Industrial Technology (Jiangsu) Co., Ltd. Competitive Strengths & Weaknesses
9.16 Detech Power Transmission Machinery (Jinan) Co., Ltd.
9.16.1 Detech Power Transmission Machinery (Jinan) Co., Ltd. Details
9.16.2 Detech Power Transmission Machinery (Jinan) Co., Ltd. Major Business
9.16.3 Detech Power Transmission Machinery (Jinan) Co., Ltd. Wind Turbine Torque Protection Device Product and Services
9.16.4 Detech Power Transmission Machinery (Jinan) Co., Ltd. Wind Turbine Torque Protection Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.16.5 Detech Power Transmission Machinery (Jinan) Co., Ltd. Recent Developments/Updates
9.16.6 Detech Power Transmission Machinery (Jinan) Co., Ltd. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS
10.1 Wind Turbine Torque Protection Device Industry Chain
10.2 Wind Turbine Torque Protection Device Upstream Analysis
10.2.1 Wind Turbine Torque Protection Device Core Raw Materials
10.2.2 Main Manufacturers of Wind Turbine Torque Protection Device Core Raw Materials
10.3 Midstream Analysis
10.4 Downstream Analysis
10.5 Wind Turbine Torque Protection Device Production Mode
10.6 Wind Turbine Torque Protection Device Procurement Model
10.7 Wind Turbine Torque Protection Device Industry Sales Model and Sales Channels
10.7.1 Wind Turbine Torque Protection Device Sales Model
10.7.2 Wind Turbine Torque Protection Device Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX
12.1 Methodology
12.2 Research Process and Data Source
12.3 Disclaimer

+357 96 030922
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List Of Tables

LIST OF TABLES

Table 1. World Wind Turbine Torque Protection Device Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World Wind Turbine Torque Protection Device Production Value by Region (2021-2026) & (USD Million)
Table 3. World Wind Turbine Torque Protection Device Production Value by Region (2027-2032) & (USD Million)
Table 4. World Wind Turbine Torque Protection Device Production Value Market Share by Region (2021-2026)
Table 5. World Wind Turbine Torque Protection Device Production Value Market Share by Region (2027-2032)
Table 6. World Wind Turbine Torque Protection Device Production by Region (2021-2026) & (Units)
Table 7. World Wind Turbine Torque Protection Device Production by Region (2027-2032) & (Units)
Table 8. World Wind Turbine Torque Protection Device Production Market Share by Region (2021-2026)
Table 9. World Wind Turbine Torque Protection Device Production Market Share by Region (2027-2032)
Table 10. World Wind Turbine Torque Protection Device Average Price by Region (2021-2026) & (US$/Unit)
Table 11. World Wind Turbine Torque Protection Device Average Price by Region (2027-2032) & (US$/Unit)
Table 12. Wind Turbine Torque Protection Device Major Market Trends
Table 13. World Wind Turbine Torque Protection Device Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)
Table 14. World Wind Turbine Torque Protection Device Consumption by Region (2021-2026) & (Units)
Table 15. World Wind Turbine Torque Protection Device Consumption Forecast by Region (2027-2032) & (Units)
Table 16. World Wind Turbine Torque Protection Device Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key Wind Turbine Torque Protection Device Producers in 2025
Table 18. World Wind Turbine Torque Protection Device Production by Manufacturer (2021-2026) & (Units)

+357 96 030922
info@marketpublishers.com

Table 19. Production Market Share of Key Wind Turbine Torque Protection Device Producers in 2025
Table 20. World Wind Turbine Torque Protection Device Average Price by Manufacturer (2021-2026) & (US$/Unit)
Table 21. Global Wind Turbine Torque Protection Device Company Evaluation Quadrant
Table 22. World Wind Turbine Torque Protection Device Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and Wind Turbine Torque Protection Device Production Site of Key Manufacturer
Table 24. Wind Turbine Torque Protection Device Market: Company Product Type Footprint
Table 25. Wind Turbine Torque Protection Device Market: Company Product Application Footprint
Table 26. Wind Turbine Torque Protection Device Competitive Factors
Table 27. Wind Turbine Torque Protection Device New Entrant and Capacity Expansion Plans
Table 28. Wind Turbine Torque Protection Device Mergers & Acquisitions Activity
Table 29. United States VS China Wind Turbine Torque Protection Device Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Wind Turbine Torque Protection Device Production Comparison, (2021 & 2025 & 2032) & (Units)
Table 31. United States VS China Wind Turbine Torque Protection Device Consumption Comparison, (2021 & 2025 & 2032) & (Units)
Table 32. United States Based Wind Turbine Torque Protection Device Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Wind Turbine Torque Protection Device Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Wind Turbine Torque Protection Device Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Wind Turbine Torque Protection Device Production (2021-2026) & (Units)
Table 36. United States Based Manufacturers Wind Turbine Torque Protection Device Production Market Share (2021-2026)
Table 37. China Based Wind Turbine Torque Protection Device Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Wind Turbine Torque Protection Device Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Wind Turbine Torque Protection Device

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Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Wind Turbine Torque Protection Device Production, (2021-2026) & (Units)
Table 41. China Based Manufacturers Wind Turbine Torque Protection Device Production Market Share (2021-2026)
Table 42. Rest of World Based Wind Turbine Torque Protection Device Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Wind Turbine Torque Protection Device Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Wind Turbine Torque Protection Device Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Wind Turbine Torque Protection Device Production, (2021-2026) & (Units)
Table 46. Rest of World Based Manufacturers Wind Turbine Torque Protection Device Production Market Share (2021-2026)
Table 47. World Wind Turbine Torque Protection Device Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World Wind Turbine Torque Protection Device Production by Type (2021-2026) & (Units)
Table 49. World Wind Turbine Torque Protection Device Production by Type (2027-2032) & (Units)
Table 50. World Wind Turbine Torque Protection Device Production Value by Type (2021-2026) & (USD Million)
Table 51. World Wind Turbine Torque Protection Device Production Value by Type (2027-2032) & (USD Million)
Table 52. World Wind Turbine Torque Protection Device Average Price by Type (2021-2026) & (US$/Unit)
Table 53. World Wind Turbine Torque Protection Device Average Price by Type (2027-2032) & (US$/Unit)
Table 54. World Wind Turbine Torque Protection Device Production Value by Power, (USD Million), 2021 & 2025 & 2032
Table 55. World Wind Turbine Torque Protection Device Production by Power (2021-2026) & (Units)
Table 56. World Wind Turbine Torque Protection Device Production by Power (2027-2032) & (Units)
Table 57. World Wind Turbine Torque Protection Device Production Value by Power (2021-2026) & (USD Million)
Table 58. World Wind Turbine Torque Protection Device Production Value by Power (2027-2032) & (USD Million)

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Table 59. World Wind Turbine Torque Protection Device Average Price by Power (2021-2026) & (US$/Unit)
Table 60. World Wind Turbine Torque Protection Device Average Price by Power (2027-2032) & (US$/Unit)
Table 61. World Wind Turbine Torque Protection Device Production Value by Form, (USD Million), 2021 & 2025 & 2032
Table 62. World Wind Turbine Torque Protection Device Production by Form (2021-2026) & (Units)
Table 63. World Wind Turbine Torque Protection Device Production by Form (2027-2032) & (Units)
Table 64. World Wind Turbine Torque Protection Device Production Value by Form (2021-2026) & (USD Million)
Table 65. World Wind Turbine Torque Protection Device Production Value by Form (2027-2032) & (USD Million)
Table 66. World Wind Turbine Torque Protection Device Average Price by Form (2021-2026) & (US$/Unit)
Table 67. World Wind Turbine Torque Protection Device Average Price by Form (2027-2032) & (US$/Unit)
Table 68. World Wind Turbine Torque Protection Device Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 69. World Wind Turbine Torque Protection Device Production by Application (2021-2026) & (Units)
Table 70. World Wind Turbine Torque Protection Device Production by Application (2027-2032) & (Units)
Table 71. World Wind Turbine Torque Protection Device Production Value by Application (2021-2026) & (USD Million)
Table 72. World Wind Turbine Torque Protection Device Production Value by Application (2027-2032) & (USD Million)
Table 73. World Wind Turbine Torque Protection Device Average Price by Application (2021-2026) & (US$/Unit)
Table 74. World Wind Turbine Torque Protection Device Average Price by Application (2027-2032) & (US$/Unit)
Table 75. KTR Systems GmbH Basic Information, Manufacturing Base and Competitors
Table 76. KTR Systems GmbH Major Business
Table 77. KTR Systems GmbH Wind Turbine Torque Protection Device Product and Services
Table 78. KTR Systems GmbH Wind Turbine Torque Protection Device Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

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Table 79. KTR Systems GmbH Recent Developments/Updates
Table 80. KTR Systems GmbH Competitive Strengths & Weaknesses
Table 81. Flender GmbH Basic Information, Manufacturing Base and Competitors
Table 82. Flender GmbH Major Business
Table 83. Flender GmbH Wind Turbine Torque Protection Device Product and Services
Table 84. Flender GmbH Wind Turbine Torque Protection Device Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Flender GmbH Recent Developments/Updates
Table 86. Flender GmbH Competitive Strengths & Weaknesses
Table 87. Regal Rexnord Corporation Basic Information, Manufacturing Base and Competitors
Table 88. Regal Rexnord Corporation Major Business
Table 89. Regal Rexnord Corporation Wind Turbine Torque Protection Device Product and Services
Table 90. Regal Rexnord Corporation Wind Turbine Torque Protection Device Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Regal Rexnord Corporation Recent Developments/Updates
Table 92. Regal Rexnord Corporation Competitive Strengths & Weaknesses
Table 93. Wuxi TRUMY Transmission Engineering Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 94. Wuxi TRUMY Transmission Engineering Co., Ltd. Major Business
Table 95. Wuxi TRUMY Transmission Engineering Co., Ltd. Wind Turbine Torque Protection Device Product and Services
Table 96. Wuxi TRUMY Transmission Engineering Co., Ltd. Wind Turbine Torque Protection Device Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Wuxi TRUMY Transmission Engineering Co., Ltd. Recent Developments/Updates
Table 98. Wuxi TRUMY Transmission Engineering Co., Ltd. Competitive Strengths & Weaknesses
Table 99. Zero-Max, Inc. Basic Information, Manufacturing Base and Competitors
Table 100. Zero-Max, Inc. Major Business
Table 101. Zero-Max, Inc. Wind Turbine Torque Protection Device Product and Services
Table 102. Zero-Max, Inc. Wind Turbine Torque Protection Device Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

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Table 103. Zero-Max, Inc. Recent Developments/Updates
Table 104. Zero-Max, Inc. Competitive Strengths & Weaknesses
Table 105. Dellner Wind Solutions Basic Information, Manufacturing Base and Competitors
Table 106. Dellner Wind Solutions Major Business
Table 107. Dellner Wind Solutions Wind Turbine Torque Protection Device Product and Services
Table 108. Dellner Wind Solutions Wind Turbine Torque Protection Device Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Dellner Wind Solutions Recent Developments/Updates
Table 110. Dellner Wind Solutions Competitive Strengths & Weaknesses
Table 111. The Timken Company Basic Information, Manufacturing Base and Competitors
Table 112. The Timken Company Major Business
Table 113. The Timken Company Wind Turbine Torque Protection Device Product and Services
Table 114. The Timken Company Wind Turbine Torque Protection Device Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. The Timken Company Recent Developments/Updates
Table 116. The Timken Company Competitive Strengths & Weaknesses
Table 117. Bonfiglioli S.p.A. Basic Information, Manufacturing Base and Competitors
Table 118. Bonfiglioli S.p.A. Major Business
Table 119. Bonfiglioli S.p.A. Wind Turbine Torque Protection Device Product and Services
Table 120. Bonfiglioli S.p.A. Wind Turbine Torque Protection Device Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Bonfiglioli S.p.A. Recent Developments/Updates
Table 122. Bonfiglioli S.p.A. Competitive Strengths & Weaknesses
Table 123. JAC Coupling Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 124. JAC Coupling Co., Ltd. Major Business
Table 125. JAC Coupling Co., Ltd. Wind Turbine Torque Protection Device Product and Services
Table 126. JAC Coupling Co., Ltd. Wind Turbine Torque Protection Device Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

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Table 127. JAC Coupling Co., Ltd. Recent Developments/Updates
Table 128. JAC Coupling Co., Ltd. Competitive Strengths & Weaknesses
Table 129. Qingdao Paguld Intelligent Manufacturing Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 130. Qingdao Paguld Intelligent Manufacturing Co., Ltd. Major Business
Table 131. Qingdao Paguld Intelligent Manufacturing Co., Ltd. Wind Turbine Torque Protection Device Product and Services
Table 132. Qingdao Paguld Intelligent Manufacturing Co., Ltd. Wind Turbine Torque Protection Device Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Qingdao Paguld Intelligent Manufacturing Co., Ltd. Recent Developments/Updates
Table 134. Qingdao Paguld Intelligent Manufacturing Co., Ltd. Competitive Strengths & Weaknesses
Table 135. ComInTec S.r.l. Basic Information, Manufacturing Base and Competitors
Table 136. ComInTec S.r.l. Major Business
Table 137. ComInTec S.r.l. Wind Turbine Torque Protection Device Product and Services
Table 138. ComInTec S.r.l. Wind Turbine Torque Protection Device Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. ComInTec S.r.l. Recent Developments/Updates
Table 140. ComInTec S.r.l. Competitive Strengths & Weaknesses
Table 141. Kudosworld Transmission Equipment Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 142. Kudosworld Transmission Equipment Co., Ltd. Major Business
Table 143. Kudosworld Transmission Equipment Co., Ltd. Wind Turbine Torque Protection Device Product and Services
Table 144. Kudosworld Transmission Equipment Co., Ltd. Wind Turbine Torque Protection Device Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. Kudosworld Transmission Equipment Co., Ltd. Recent Developments/Updates
Table 146. Kudosworld Transmission Equipment Co., Ltd. Competitive Strengths & Weaknesses
Table 147. Chr. Mayr GmbH + Co. KG Basic Information, Manufacturing Base and Competitors
Table 148. Chr. Mayr GmbH + Co. KG Major Business
Table 149. Chr. Mayr GmbH + Co. KG Wind Turbine Torque Protection Device Product

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and Services
Table 150. Chr. Mayr GmbH + Co. KG Wind Turbine Torque Protection Device Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. Chr. Mayr GmbH + Co. KG Recent Developments/Updates
Table 152. Chr. Mayr GmbH + Co. KG Competitive Strengths & Weaknesses
Table 153. Luoyang Xinqianglian Slewing Bearing Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 154. Luoyang Xinqianglian Slewing Bearing Co., Ltd. Major Business
Table 155. Luoyang Xinqianglian Slewing Bearing Co., Ltd. Wind Turbine Torque Protection Device Product and Services
Table 156. Luoyang Xinqianglian Slewing Bearing Co., Ltd. Wind Turbine Torque Protection Device Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. Luoyang Xinqianglian Slewing Bearing Co., Ltd. Recent Developments/Updates
Table 158. Luoyang Xinqianglian Slewing Bearing Co., Ltd. Competitive Strengths & Weaknesses
Table 159. Rokee Industrial Technology (Jiangsu) Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 160. Rokee Industrial Technology (Jiangsu) Co., Ltd. Major Business
Table 161. Rokee Industrial Technology (Jiangsu) Co., Ltd. Wind Turbine Torque Protection Device Product and Services
Table 162. Rokee Industrial Technology (Jiangsu) Co., Ltd. Wind Turbine Torque Protection Device Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 163. Rokee Industrial Technology (Jiangsu) Co., Ltd. Recent Developments/Updates
Table 164. Rokee Industrial Technology (Jiangsu) Co., Ltd. Competitive Strengths & Weaknesses
Table 165. Detech Power Transmission Machinery (Jinan) Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 166. Detech Power Transmission Machinery (Jinan) Co., Ltd. Major Business
Table 167. Detech Power Transmission Machinery (Jinan) Co., Ltd. Wind Turbine Torque Protection Device Product and Services
Table 168. Detech Power Transmission Machinery (Jinan) Co., Ltd. Wind Turbine Torque Protection Device Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 169. Detech Power Transmission Machinery (Jinan) Co., Ltd. Recent

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Developments/Updates
Table 170. Detech Power Transmission Machinery (Jinan) Co., Ltd. Competitive Strengths & Weaknesses
Table 171. Global Key Players of Wind Turbine Torque Protection Device Upstream (Raw Materials)
Table 172. Global Wind Turbine Torque Protection Device Typical Customers
Table 173. Wind Turbine Torque Protection Device Typical Distributors

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List Of Figures

LIST OF FIGURES

Figure 1. Wind Turbine Torque Protection Device Picture
Figure 2. World Wind Turbine Torque Protection Device Production Value: 2021 & 2025 & 2032, (USD Million)
Figure 3. World Wind Turbine Torque Protection Device Production Value and Forecast (2021-2032) & (USD Million)
Figure 4. World Wind Turbine Torque Protection Device Production (2021-2032) & (Units)
Figure 5. World Wind Turbine Torque Protection Device Average Price (2021-2032) & (US$/Unit)
Figure 6. World Wind Turbine Torque Protection Device Production Value Market Share by Region (2021-2032)
Figure 7. World Wind Turbine Torque Protection Device Production Market Share by Region (2021-2032)
Figure 8. North America Wind Turbine Torque Protection Device Production (2021-2032) & (Units)
Figure 9. Europe Wind Turbine Torque Protection Device Production (2021-2032) & (Units)
Figure 10. China Wind Turbine Torque Protection Device Production (2021-2032) & (Units)
Figure 11. Japan Wind Turbine Torque Protection Device Production (2021-2032) & (Units)
Figure 12. Wind Turbine Torque Protection Device Market Drivers
Figure 13. Factors Affecting Demand
Figure 14. World Wind Turbine Torque Protection Device Consumption (2021-2032) & (Units)
Figure 15. World Wind Turbine Torque Protection Device Consumption Market Share by Region (2021-2032)
Figure 16. United States Wind Turbine Torque Protection Device Consumption (2021-2032) & (Units)
Figure 17. China Wind Turbine Torque Protection Device Consumption (2021-2032) & (Units)
Figure 18. Europe Wind Turbine Torque Protection Device Consumption (2021-2032) & (Units)
Figure 19. Japan Wind Turbine Torque Protection Device Consumption (2021-2032) & (Units)

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Figure 20. South Korea Wind Turbine Torque Protection Device Consumption (2021-2032) & (Units)
Figure 21. ASEAN Wind Turbine Torque Protection Device Consumption (2021-2032) & (Units)
Figure 22. India Wind Turbine Torque Protection Device Consumption (2021-2032) & (Units)
Figure 23. Producer Shipments of Wind Turbine Torque Protection Device by Manufacturer Revenue ($MM) and Market Share (%): 2025
Figure 24. Global Four-firm Concentration Ratios (CR4) for Wind Turbine Torque Protection Device Markets in 2025
Figure 25. Global Four-firm Concentration Ratios (CR8) for Wind Turbine Torque Protection Device Markets in 2025
Figure 26. United States VS China: Wind Turbine Torque Protection Device Production Value Market Share Comparison (2021 & 2025 & 2032)
Figure 27. United States VS China: Wind Turbine Torque Protection Device Production Market Share Comparison (2021 & 2025 & 2032)
Figure 28. United States VS China: Wind Turbine Torque Protection Device Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 29. United States Based Manufacturers Wind Turbine Torque Protection Device Production Market Share 2025
Figure 30. China Based Manufacturers Wind Turbine Torque Protection Device Production Market Share 2025
Figure 31. Rest of World Based Manufacturers Wind Turbine Torque Protection Device Production Market Share 2025
Figure 32. World Wind Turbine Torque Protection Device Production Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 33. World Wind Turbine Torque Protection Device Production Value Market Share by Type in 2025
Figure 34. Friction Slip Torque Limiters
Figure 35. Shear Pin Torque Limiters
Figure 36. Ball-detent Torque Limiters
Figure 37. Others
Figure 38. World Wind Turbine Torque Protection Device Production Market Share by Type (2021-2032)
Figure 39. World Wind Turbine Torque Protection Device Production Value Market Share by Type (2021-2032)
Figure 40. World Wind Turbine Torque Protection Device Average Price by Type (2021-2032) & (US$/Unit)
Figure 41. World Wind Turbine Torque Protection Device Production Value by Power,

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(USD Million), 2021 & 2025 & 2032
Figure 42. World Wind Turbine Torque Protection Device Production Value Market Share by Power in 2025
Figure 43. Below 2 MW
Figure 44. 2 -5 MW
Figure 45. 5 - 10 MW
Figure 46. Above 10 MW
Figure 47. World Wind Turbine Torque Protection Device Production Market Share by Power (2021-2032)
Figure 48. World Wind Turbine Torque Protection Device Production Value Market Share by Power (2021-2032)
Figure 49. World Wind Turbine Torque Protection Device Average Price by Power (2021-2032) & (US$/Unit)
Figure 50. World Wind Turbine Torque Protection Device Production Value by Form, (USD Million), 2021 & 2025 & 2032
Figure 51. World Wind Turbine Torque Protection Device Production Value Market Share by Form in 2025
Figure 52. Standalone Shaft-mounted
Figure 53. Coupling-integrated
Figure 54. World Wind Turbine Torque Protection Device Production Market Share by Form (2021-2032)
Figure 55. World Wind Turbine Torque Protection Device Production Value Market Share by Form (2021-2032)
Figure 56. World Wind Turbine Torque Protection Device Average Price by Form (2021-2032) & (US$/Unit)
Figure 57. World Wind Turbine Torque Protection Device Production Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 58. World Wind Turbine Torque Protection Device Production Value Market Share by Application in 2025
Figure 59. Offshore Wind Power
Figure 60. Onshore Wind Power
Figure 61. World Wind Turbine Torque Protection Device Production Market Share by Application (2021-2032)
Figure 62. World Wind Turbine Torque Protection Device Production Value Market Share by Application (2021-2032)
Figure 63. World Wind Turbine Torque Protection Device Average Price by Application (2021-2032) & (US$/Unit)
Figure 64. Wind Turbine Torque Protection Device Industry Chain
Figure 65. Wind Turbine Torque Protection Device Procurement Model

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Figure 66. Wind Turbine Torque Protection Device Sales Model
Figure 67. Wind Turbine Torque Protection Device Sales Channels, Direct Sales, and Distribution
Figure 68. Methodology
Figure 69. Research Process and Data Source

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