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Pneumatic Torque Limiter Market Forecasts to 2034 – Global Analysis By Type (Friction Style Torque Limiters, Ball Detent Torque Limiters, Magnetic Particle Torque Limiters, Slip Clutch Torque Limiters and Other Types), Application (Industrial Machinery, Conveyor Belt System, Automobile and Other Applications), End User (Manufacturing, Automotive, Aerospace, Energy and Other End Users) and by Geography

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Abstracts

According to Stratistics MRC, the Global Pneumatic Torque Limiter Market is accounted for $49.1 million in 2026 and is expected to reach $69.9 million by 2034 growing at a CAGR of 4.5% during the forecast period. In industrial machinery, a pneumatic torque limiter is an essential part that guards against damage from sudden overloads or excessive torque to drive trains and other equipment. Pneumatic devices use compressed air to activate and deactivate the torque-limiting mechanism, providing precise control over torque transmission. Moreover, the pneumatic torque limiter effectively decouples the drivetrain when a predefined torque level is reached, preventing further torque transmission and protecting the associated machinery from potential damage.

According to the data collected on the site of a wind power plant, when the unit is operating normally, the feedback torque of the converter can closely follow the given torque of the main control, and the given value of torque can be consistent with the actual value.

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Market Dynamics:

Driver:

Increasing safety protocols

Pneumatic torque limiters are a major factor in the adoption of safety mechanisms in industrial settings, which is driven by the growing emphasis on workplace safety. These devices protect personnel and equipment by averting overloads and unanticipated torque fluctuations. Additionally, their function as safety elements is consistent with the larger industry trend that places a premium on employee welfare and the safeguarding of important property.

Restraint:

Insufficient knowledge and awareness

Pneumatic torque limiter adoption may be hampered by a lack of knowledge and comprehension of these devices' advantages. If industries do not fully understand the positive impact on machinery reliability, safety, and overall operational efficiency, they may be reluctant to invest in these systems. Furthermore, for greater market acceptance, it becomes imperative to close this knowledge gap through educational initiatives.

Opportunity:

Development in the emerging markets

Pneumatic torque limiter sales are expected to rise sharply as a result of emerging economies' continued industrialization and economic expansion. There is a rising need for sophisticated torque control mechanisms as these regions' industries modernize their manufacturing processes. Moreover, providers of dependable and effective pneumatic torque-limiting solutions can take advantage of this prospect by entering or growing in these markets.

Threat:

Raw material prices volatility

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Price changes for raw materials, such as metals and specialty alloys, can have an impact on the pneumatic torque limiter market. To lessen the impact of fluctuating raw material costs, manufacturers must create efficient cost management plans, such as forward contracts, bulk purchasing agreements, and investigating substitute materials. Additionally, stability in prices depends on strategic alliances with suppliers and ongoing observation of commodity markets.

Covid-19 Impact:

The market for pneumatic torque limiters has been severely affected by the COVID-19 pandemic, which has disrupted demand, production, and the supply chain. The first worldwide lockdowns resulted in the closure of manufacturing facilities, which caused production schedule delays and a shortage of vital components. The need for pneumatic torque limiters was tempered by the decline in manufacturing in a number of important industries, including aerospace and automotive. Furthermore, travel restrictions affected the availability of raw materials and components by impeding international trade.

The Friction Style Torque Limiters segment is expected to be the largest during the forecast period

It is projected that the friction-style torque limiters segment will have the largest market share. In order to limit the torque transmitted through the system, friction-style torque limiters use friction surfaces that slip when a predefined torque level is reached. Because of their adaptability, torque limiters are used in a wide range of industries, such as manufacturing, automobiles, and machinery, where precise torque management is necessary to avoid component damage. Moreover, due to their ease of use, dependability, and capacity to deliver consistent torque limiting in a variety of applications, friction-style torque limiters are highly regarded.

The Automotive segment is expected to have the highest CAGR during the forecast period

Due to the constant changes occurring in the automotive industry, the torque limiter market is expected to witness the highest CAGR in the automotive segment. The need for torque limiters is only going to increase as the automotive industry uses more automated systems, electrification, and sophisticated manufacturing techniques. In order to ensure accurate torque control of different automotive components during the assembly, manufacturing, and operation phases, these devices are essential.

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Additionally, the automotive industry offers torque limiter applications in a dynamic landscape with an increasing focus on lightweight materials, improved safety features, and the growth of electric vehicle production.

Region with largest share:

It is projected that the torque-limiter market will have the largest share in the European region. Torque limiters are in high demand in a variety of industrial applications due to the region's advanced manufacturing infrastructure, especially in nations like Germany, France, and the United Kingdom. The extensive use of torque limiters in the region can be attributed to Europe's emphasis on precision engineering, automobile manufacturing, and strict quality standards. Furthermore, torque limiters are in high demand in this region due to the focus on industrial automation as well as the existence of important industries like aerospace and energy.

Region with highest CAGR:

In terms of torque limiter market growth, the Middle East and Africa (MEA) region is projected to have the highest CAGR. With nations like South Africa, Saudi Arabia, and the United Arab Emirates spearheading economic growth, the MEA region has seen a surge in industrialization and infrastructure development. Moreover, efforts to diversify economies and lessen reliance on oil income have encouraged investments in non-oil sectors, which has accelerated the uptake of cutting-edge industrial technologies like torque limiters.

Key players in the market

Some of the key players in Pneumatic Torque Limiter market include Rexnord Corporation, Voith GmbH, Altra Industrial Motion Corp, Mayr GmbH + Co. KG, R+W Coupling Technology, KTR Systems GmbH and INTORQ GmbH & Co. KG.

Key Developments:

In March 2023, Regal Rexnord Corporation and Altra Industrial Motion Corp. jointly announced today that they have received all required regulatory approvals to complete the previously announced acquisition of all of the issued and outstanding shares of common stock of Altra, whereby a wholly owned subsidiary of Regal Rexnord will be merged with and into Altra, with Altra surviving the merger as a wholly owned subsidiary of Regal Rexnord.

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In March 2023, Voith Hydro officially opened the doors of its newly established center of competence for generator components in Bosnia and Hercegovina six months ago. The location in Lukavac (Tuzla) will be serving western markets; from North and Latin America to Europe and Africa.

In February 2022, Altra Industrial Motion Corp. announced it entered into an agreement to sell its Jacobs Vehicle Systems business to Cummins Inc. for $325 million. JVS, whose technology is focused on engine retarding and valve actuation systems, generated approximately $193 million in revenue in 2021, according to Braintree, Mass.-based Altra.

Types Covered:

- Friction Style Torque Limiters
- Ball Detent Torque Limiters
- Magnetic Particle Torque Limiters
- Slip Clutch Torque Limiters
- Other Types

Applications Covered:

- Industrial Machinery
- Conveyor Belt System
- Automobile
- Other Applications

End Users Covered:

- Manufacturing

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- Automotive
- Aerospace
- Energy
- Other End Users

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan
  - China

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- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

- Argentina
- Brazil
- Chile
- Rest of South America

Middle East & Africa

- Saudi Arabia
- UAE
- Qatar
- South Africa
- Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants

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Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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