

# **Elastomeric Couplings Market Forecasts to 2032 – Global Analysis By Type (Jaw Couplings, Tire Couplings, Pin & Bush Couplings, Sleeve Couplings, Gear Type and Other Types), Design (Flexible Couplings, Rigid Couplings, Torsionally Soft Couplings, Torsionally Rigid Couplings and Other Designs), Material, Torque Range, Application, End User and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global Elastomeric Couplings Market is accounted for \$1.36 billion in 2025 and is expected to reach \$1.96 billion by 2032 growing at a CAGR of 5.3% during the forecast period. Elastomeric couplings are flexible mechanical connectors designed to transmit torque between rotating shafts while accommodating misalignment and dampening vibrations. They incorporate an elastomeric element typically rubber or polymer that absorbs shock loads and reduces noise, enhancing equipment longevity and operational smoothness. These couplings are commonly used in pumps, compressors, and motor-driven systems due to their ease of installation, maintenance-free operation, and ability to handle angular, parallel, and axial misalignments without metal-to-metal contact.

Market Dynamics:

Driver:

Global shift towards automation in manufacturing, assembly lines, and other industrial processes

As sectors such as automotive, aerospace, and manufacturing increasingly deploy robotics and smart assembly lines, elastomeric couplings are being integrated to enhance operational continuity and reduce mechanical wear. These components are essential in modern machinery, offering vibration damping and misalignment compensation across automated systems. Their ability to support high-speed, precision-driven environments makes them indispensable in next-generation production setups. Additionally, the rise of electric vehicles and smart factories is accelerating the adoption of flexible coupling technologies.

#### Restraint:

##### Material limitations in extreme environments

Materials like rubber and polyurethane tend to degrade when exposed to prolonged heat above 120°C or corrosive industrial environments, leading to reduced lifespan and reliability. This restricts their application in sectors such as oil & gas and heavy-duty mining, where metallic alternatives are preferred. Moreover, the need for frequent material testing and compliance with durability standards adds complexity to the manufacturing process, impacting scalability and cost-efficiency for suppliers.

#### Opportunity:

##### Rapid expansion of the renewable energy sector

Wind turbines, solar tracking systems, and hydroelectric installations increasingly rely on flexible couplings to manage torque transmission and absorb mechanical stress. Their lightweight design and low maintenance requirements make them ideal for decentralized energy systems. As global wind capacity surpassed 800 GW in 2023, the demand for couplings that ensure operational stability and reduce downtime is surging. Manufacturers are also exploring bio-based elastomers to align with sustainability goals, further expanding market potential.

#### Threat:

##### Stringent regulatory and environmental compliance

Compliance with ISO, ASTM, and regional directives requires continuous investment in testing, certification, and material innovation. Failure to meet these benchmarks can

lead to product recalls, reputational damage, and restricted market access. Additionally, competition from advanced coupling technologies such as magnetic or smart sensor-integrated systems—may erode market share if traditional elastomeric designs do not evolve to meet emerging performance expectations.

#### Covid-19 Impact:

The COVID-19 pandemic disrupts global supply chains leading to delays in raw material procurement and manufacturing schedules for elastomeric couplings. Lockdowns and labor shortages affected production volumes, especially in regions with high industrial dependency. However, the crisis also accelerated automation in essential sectors like pharmaceuticals, food processing, and logistics, indirectly driving demand for reliable coupling solutions.

The jaw couplings segment is expected to be the largest during the forecast period

The jaw couplings segment is expected to account for the largest market share during the forecast period due to their widespread use in general-purpose industrial applications. Their ability to accommodate angular misalignments and dampen vibrations makes them suitable for pumps, compressors, and conveyors. Additionally, innovations in jaw coupling materials such as thermoplastic polyurethane are enhancing durability and performance, solidifying their position as the most preferred coupling type during the forecast period.

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

Over the forecast period, the rigid couplings segment is predicted to witness the highest growth rate owing to their increasing adoption in precision-driven environments. Unlike flexible couplings, rigid variants offer direct torque transmission without any allowance for misalignment, making them ideal for high-speed, synchronized machinery. Their robust structure supports applications in robotics, CNC systems, and aerospace tooling. As industries prioritize accuracy and mechanical integrity, demand for rigid couplings is expected to surge, especially in regions investing heavily in smart manufacturing infrastructure.

#### Region with largest share:

During the forecast period, the Europe region is expected to hold the largest market

share driven by its advanced industrial base and strong emphasis on automation. Countries like Germany, France, and Italy are home to leading manufacturers of power transmission components, with ongoing investments in energy-efficient machinery. The region's commitment to decarbonization and renewable energy integration further supports coupling demand in wind and hydroelectric installations.

#### Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR attributed to rapid industrialization and infrastructure development. Nations such as China, India, and South Korea are expanding their manufacturing capabilities, creating robust demand for coupling systems in automotive, electronics, and heavy machinery sectors. Government-led initiatives promoting smart factories and renewable energy adoption are also contributing to market expansion.

#### Key players in the market

Some of the key players in Elastomeric Couplings Market include Siemens AG, Regal Rexnord Corporation, Dodge Industrial, Inc., SKF Group, Altra Industrial Motion Corp., KTR Systems GmbH, Lovejoy Inc., Tsubaki Nakashima Co., Ltd., R+W Coupling Technology, Rexnord Corporation, Voith GmbH & Co. KGaA, ABB Ltd., Renold PLC, John Crane, HBE GmbH, and CENTA Power Transmission.

#### Key Developments:

In August 2025, Regal Rexnord partnered with ABB Robotics to enable seamless integration of its Thomson Movotrak™ 7th-axis Cobot Transfer Units with ABB's GoFa cobots. The solution offers plug-and-play deployment, extended range, collision detection, and full system integration across Regal Rexnord brands.

In May 2025, Siemens introduced advanced Industrial AI agents within its Siemens Xcelerator/Industrial Copilot ecosystem, capable of autonomously executing full processes and boosting productivity by up to 50%. A marketplace hub for third-party agents is planned on the Siemens Xcelerator platform to further scale the ecosystem.

#### Types Covered:

Jaw Couplings

Tire Couplings

Pin & Bush Couplings

Sleeve Couplings

Gear Type

Other Types

#### Designs Covered:

Flexible Couplings

Rigid Couplings

Torsionally Soft Couplings

Torsionally Rigid Couplings

Other Designs

#### Materials Covered:

Natural Rubber

Polyurethane

EPDM (Ethylene Propylene Diene Monomer)

Neoprene

Nitrile (Buna-N)

Other Materials

**Torque Ranges Covered:**

Low Torque

Medium Torque

High Torque

**Applications Covered:**

Pumps

Compressors

Fans & Blowers

Mixers & Agitators

Conveyors

Generators

Other Applications

**End Users Covered:**

Automotive

Aerospace & Defense

Oil & Gas

Power Generation

Chemicals & Petrochemicals

Mining & Metals

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

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
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- 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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