

Automotive Bushing Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Vehicle Type (Passenger Car and Commercial Vehicle), By Application Type (Suspension System Bushings, Engine Mount Bushings, Chassis Bushings, and Transmission Bushings), By Regional, Competition

<https://marketpublishers.com/r/AC88EDECB62EEN.html>

Date: October 2023

Pages: 182

Price: US\$ 4,900.00 (Single User License)

ID: AC88EDECB62EEN

Abstracts

The Global Automotive Bushing Market is poised for substantial growth, with a projected increase from USD 134 Billion in 2022 to USD 171.01 Billion by 2028, representing a steady CAGR of 4.29%. This growth is attributed to a multitude of factors.

Automotive bushings, also known as suspension bushings, hold a pivotal role in optimizing vehicle performance by providing cushioning, mitigating vibrations, and enhancing stability. The market's expansion is primarily driven by the escalating demand for elevated vehicle comfort and reduced levels of noise, vibration, and harshness (NVH). As consumers increasingly prioritize a smoother and more comfortable driving experience, automakers are intensively focusing on the integration of advanced bushing technologies into their vehicles' suspension systems.

Furthermore, the pursuit of enhanced vehicle handling and stability has led to the adoption of innovative bushing solutions. These components significantly contribute to improved steering response and cornering capabilities, thus elevating the overall driving dynamics. With the ongoing evolution of automotive engineering and the integration of sophisticated suspension systems, there has been a substantial increase in demand for high-quality bushings capable of effectively absorbing shocks and vibrations.

The automotive industry's emphasis on weight reduction to enhance fuel efficiency has also played a role in driving the demand for innovative bushing materials. Manufacturers are actively exploring lightweight and durable materials to replace traditional metal components, thereby contributing to an overall reduction in vehicle weight without compromising performance and safety.

The rapid advancements in technology have given rise to the development of next-generation bushings that offer improved durability, longevity, and performance across varying conditions. These advancements, coupled with the increasing adoption of electric and hybrid vehicles, are creating opportunities for innovative bushing solutions tailored to the unique requirements of these vehicles' chassis and drivetrain systems.

In conclusion, the Global Automotive Bushing Market is experiencing notable growth, primarily steered by the automotive industry's unwavering commitment to improving comfort, reducing NVH, enhancing vehicle handling, and achieving weight reduction. As technological innovations continue to shape the automotive landscape, manufacturers of bushings are poised to play a pivotal role in providing solutions that elevate vehicle performance and contribute to a more comfortable and efficient driving experience.

Key Market Drivers

Vehicle Comfort and NVH Reduction

One of the primary drivers for the automotive bushing market is the continuous pursuit of improved vehicle comfort and reduced noise, vibration, and harshness (NVH). Automotive bushings play a crucial role in dampening vibrations and absorbing shocks, contributing to a smoother and more comfortable ride for vehicle occupants. As consumer expectations for a comfortable driving experience continue to rise, automakers prioritize the integration of advanced bushing technologies to meet these demands.

Vehicle Handling and Stability Enhancement

Enhancing vehicle handling and stability is another key driver of the automotive bushing market. Bushings are essential components in a vehicle's suspension system, influencing its steering response, cornering capabilities, and overall driving dynamics. As automakers seek to improve the performance and agility of their vehicles, they rely on innovative bushing solutions that provide greater control and stability during various driving conditions. This driver is particularly relevant for sports cars, performance

vehicles, and SUVs.

Lightweighting Initiatives

The automotive industry is in the midst of a significant shift toward lightweighting to improve fuel efficiency and reduce emissions. Reducing a vehicle's weight can enhance its fuel economy and environmental performance. Bushing manufacturers are responding to this trend by developing lightweight materials and designs that replace traditional metal components. Lightweight bushings not only contribute to weight reduction but also help maintain vehicle performance and safety standards.

Technological Advancements in Suspension Systems

Technological advancements in automotive suspension systems are driving the demand for advanced bushings. Modern suspension systems increasingly incorporate electronic and adaptive components to provide a comfortable and adaptable ride. These systems require precision-engineered bushings that can withstand complex movements and deliver consistent performance. As the automotive industry continues to innovate in this area, the need for specialized bushing solutions grows.

Electric and Hybrid Vehicles (EVs and HEVs)

The rise of electric and hybrid vehicles is reshaping the automotive landscape and impacting the bushing market. These vehicles have different chassis and drivetrain configurations compared to traditional internal combustion engine vehicles. As a result, bushing manufacturers are developing customized solutions to meet the specific requirements of EVs and HEVs. The reduced noise levels in electric vehicles also place a greater emphasis on NVH reduction, making high-quality bushings even more critical.

Increased Vehicle Production

The overall growth in global vehicle production is a fundamental driver of the automotive bushing market. As the automotive industry expands to meet rising consumer demand, the demand for bushings increases proportionally. Emerging markets, in particular, are contributing significantly to the growth of vehicle production, further boosting the demand for automotive bushings.

Replacement and Aftermarket Sales

The aftermarket segment of the automotive bushing market is a robust driver in itself. As vehicles age and accumulate mileage, bushings wear out and require replacement to maintain vehicle performance and safety. Consumers and repair shops seek high-quality replacement bushings to ensure optimal vehicle handling and ride comfort. The availability of a wide range of aftermarket bushing options caters to the ongoing maintenance needs of existing vehicle fleets.

Stringent Emission and Fuel Efficiency Regulations

Environmental regulations and fuel efficiency standards around the world are pushing automakers to design more efficient vehicles. To meet these stringent requirements, manufacturers are looking for ways to reduce vehicle weight without compromising performance. Lightweight bushings that contribute to weight reduction align with these regulatory goals and, therefore, drive their adoption.

Globalization of the Automotive Industry

The globalization of the automotive industry has led to increased competition among automakers and suppliers. This competition encourages continuous innovation and the adoption of advanced technologies, including bushing solutions. Suppliers from different regions strive to offer the best-performing and cost-effective bushings, resulting in the rapid development and expansion of the global automotive bushing market.

Continuous Research and Development

The automotive industry's commitment to research and development fuels the creation of new and improved bushing materials, designs, and technologies. Innovations in materials science and engineering enable the development of bushings with enhanced durability, longevity, and performance characteristics. The ongoing pursuit of excellence in bushing design and manufacturing remains a driving force behind the market's growth.

Key Market Challenges

Material Selection and Innovation

Selecting the appropriate materials for bushings is a critical challenge. Bushings need to withstand various forces, including compression, tension, torsion, and shear, while providing damping characteristics. Manufacturers must continuously innovate to

develop materials that offer the ideal balance between durability, flexibility, and weight savings. As regulations push for greater sustainability, materials with reduced environmental impact are also sought after.

Heat and Environmental Stress

Automotive bushings are exposed to a wide range of environmental conditions, including extreme temperatures, moisture, road salt, and chemicals. These conditions can cause premature wear and degradation of bushing materials. Ensuring that bushings maintain their performance and longevity under such stress factors is a challenge that manufacturers must address.

Performance Consistency

Maintaining consistent performance across a wide range of operating conditions is crucial for bushings. Variations in performance can lead to issues with vehicle handling, comfort, and safety. Achieving the desired consistency can be challenging, especially when faced with variations in production processes, materials, and environmental factors.

NVH Reduction

Noise, vibration, and harshness (NVH) reduction is a significant challenge, particularly as consumers demand quieter and more comfortable vehicles. Bushings play a vital role in NVH control, but achieving the right balance between stiffness for handling and flexibility for NVH reduction can be challenging. Manufacturers must continually refine bushing designs to optimize NVH performance.

Durability and Longevity

Automotive bushings are subjected to repeated stresses over a vehicle's lifespan, and they must maintain their performance characteristics for an extended period. Achieving durability and longevity while minimizing wear and degradation is a challenge. Factors like road conditions, vehicle load, and driving habits can impact bushing lifespan.

Integration with Advanced Suspension Systems

Modern vehicles increasingly feature advanced suspension systems that incorporate electronic components and adaptive technologies. Integrating bushings into these

complex systems requires careful engineering and compatibility considerations. Ensuring that bushings work seamlessly with these systems is a challenge as the automotive industry continues to innovate.

Compliance with Emissions and Fuel Efficiency Standards

Meeting stringent emissions and fuel efficiency standards has become a challenge for the automotive industry. Lightweight materials used in bushings can contribute to weight reduction and improved fuel efficiency. However, manufacturers must balance weight reduction with durability and performance, ensuring that bushings can withstand the demands of fuel-efficient vehicles.

Cost Pressures

Automotive manufacturers are under constant pressure to reduce production costs while maintaining or improving component quality. Achieving cost efficiency in the manufacturing of bushings can be challenging, particularly when striving to meet stringent quality standards. Reducing costs without compromising performance remains a balancing act.

Customization for EVs and HEVs

Electric vehicles (EVs) and hybrid electric vehicles (HEVs) have unique chassis and drivetrain configurations compared to traditional internal combustion engine vehicles. Developing customized bushing solutions that meet the specific requirements of these vehicles is a challenge. EVs, in particular, demand greater attention to NVH reduction due to their quieter operation.

Global Supply Chain Disruptions

The automotive industry relies on a complex global supply chain. Disruptions, such as the COVID-19 pandemic or trade disputes, can lead to supply chain delays and shortages of critical components, including bushings. Ensuring a stable supply chain is a challenge that manufacturers must navigate.

Competition and Innovation

The automotive bushing market is highly competitive, with numerous manufacturers vying for market share. This competitive landscape pushes companies to continually

innovate and differentiate their products. Staying ahead of the competition and developing innovative bushing solutions is an ongoing challenge.

Environmental Regulations and Sustainability

Increasing environmental regulations and consumer demand for sustainable products are challenging the automotive industry to reduce its carbon footprint. Bushing manufacturers must address environmental concerns related to materials, manufacturing processes, and end-of-life disposal. Developing sustainable bushing solutions that align with industry sustainability goals is a complex challenge.

Key Market Trends

Advanced Materials and Composites

A prominent trend in the automotive bushing market is the adoption of advanced materials and composites. Manufacturers are increasingly using materials like polyurethane, thermoplastics, and reinforced rubber to improve the performance and durability of bushings. These materials offer enhanced resistance to environmental stress, reduced weight, and improved damping characteristics, contributing to better vehicle handling and comfort.

Electrification and Hybridization

The global shift toward electric vehicles (EVs) and hybrid electric vehicles (HEVs) has a significant impact on the automotive bushing market. These vehicles have unique chassis and drivetrain configurations, requiring customized bushing solutions. The quieter operation of EVs also places greater emphasis on noise, vibration, and harshness (NVH) control, driving the need for advanced bushings designed to reduce cabin noise and vibrations.

Lightweighting Initiatives

To improve fuel efficiency and reduce emissions, automakers are focusing on lightweighting their vehicles. Lightweight materials in bushings contribute to overall weight reduction without compromising performance. This trend aligns with regulatory pressures for improved fuel efficiency and emissions reductions, making lightweight bushings highly sought after.

Electrically Conductive Bushings

With the increasing integration of electronic components in vehicles, there is a trend toward electrically conductive bushings. These bushings help dissipate static electricity, electromagnetic interference (EMI), and radio frequency interference (RFI) to protect sensitive electronic systems. As vehicles become more technologically advanced, electrically conductive bushings play a crucial role in ensuring system reliability.

Environmental Sustainability

Environmental sustainability is a growing concern for both consumers and automakers. In response, the automotive bushing market is witnessing a trend toward more eco-friendly and sustainable materials and manufacturing processes. Manufacturers are exploring recyclable materials and adopting greener production methods to align with sustainability goals.

Smart Bushings and IoT Integration

Advancements in sensor technology and the Internet of Things (IoT) are leading to the development of smart bushings. These bushings incorporate sensors to monitor their condition and performance in real-time. The data collected can be used for predictive maintenance, enhancing vehicle safety and reliability. IoT integration also allows for remote monitoring and diagnostics, reducing downtime and maintenance costs.

Customization for Autonomous Vehicles:

The emergence of autonomous vehicles presents a unique challenge and opportunity for the automotive bushing market. Autonomous vehicles require precise control over vehicle movements, making bushings a critical component in achieving smooth and stable rides. Customized bushings tailored to the specific needs of autonomous vehicles, including ride comfort and dynamic control, are a growing trend.

Globalization and Supply Chain Optimization

The globalization of the automotive industry has led to the need for a global supply chain network. Suppliers of automotive bushings are establishing a presence in multiple regions to ensure efficient supply chain operations. This trend enables manufacturers to meet the demand for bushings while minimizing logistics costs and reducing lead times.

Increased Demand for Electric Powertrains

The automotive industry's shift toward electric powertrains, including battery electric vehicles (BEVs) and hybrid powertrains, has led to a surge in demand for specific types of bushings. These vehicles have different weight distributions and operating characteristics, necessitating specialized bushing designs to accommodate the unique demands of electric powertrains.

Focus on Ride Comfort and Handling

Consumer preferences for improved ride comfort and handling continue to influence the automotive bushing market. Manufacturers are developing bushings that offer a balance between comfort and handling characteristics, enhancing the driving experience. Suspension systems that provide a smoother ride while maintaining precise handling are in high demand.

Collaborative Research and Development

Collaborative efforts between automakers, bushing manufacturers, and research institutions are on the rise. These collaborations aim to develop innovative bushing solutions that address industry challenges, including NVH reduction, durability, and lightweighting. Sharing knowledge and resources fosters the development of advanced bushing technologies.

3D Printing and Additive Manufacturing

The adoption of 3D printing and additive manufacturing techniques is gaining momentum in the production of automotive bushings. These technologies offer design flexibility, reduced lead times, and the ability to create complex geometries. Manufacturers are exploring the potential of 3D printing to optimize bushing designs and manufacturing processes.

Product Lifecycle Monitoring

Incorporating sensors and monitoring systems into bushings allows for real-time tracking of their performance throughout their lifecycle. This trend supports predictive maintenance strategies, enabling timely replacements and reducing the risk of unexpected failures. Manufacturers are increasingly focusing on extending bushing lifespan and reliability.

Segmental Insights

Application Type Insights

The global automotive bushing market is segmented into different application types, each with its unique market dynamics. The major segments include suspension, engine, chassis, and interior. Suspension bushings are anticipated to hold a substantial share in the market due to their critical role in ensuring a smooth and comfortable ride by absorbing shocks and minimizing vibrations. The engine segment is also expected to see significant growth, owing to the increasing need for durable bushings that can withstand high temperatures and pressures in the engine compartment. Chassis bushings, used to reduce noise and vibration, are also gaining traction. In the case of interior bushings, they are essential for the smooth operation of various internal systems within the vehicle. The demand pattern for each segment is influenced by multiple factors such as vehicle type, regional driving conditions, and advances in material science.

Vehicle Type Insights

The vehicle type acts as a significant determinant in the global automotive bushing market. The market can be broadly divided into passenger vehicles and commercial vehicles. Passenger vehicles constitute a significant share of the market due to their wide usage and high demand for a smooth, vibration-free ride. The growing preference for SUVs and luxury cars, which require effective bushing systems for enhanced comfort and performance, is further driving the demand in this segment. On the other hand, the commercial vehicles segment is also projected to witness substantial growth. Factors such as increasing focus on the longevity of vehicles, reducing maintenance costs, and improving ride quality for long hauls are contributing to the rising demand for high-quality bushings in commercial vehicles. The market dynamics in each vehicle category are further influenced by the regional preference for vehicle types, fuel economy, and local regulations.

Regional Insights

Regionally, the global automotive bushing market exhibits diverse trends. In North America, the demand for bushings is driven by the popularity of SUVs and pickup trucks, which necessitate high-quality suspension and engine bushings for optimal performance and comfort. The European market, known for its luxury and high-

performance vehicles, places great emphasis on the quality and durability of bushings. This drives significant demand for superior chassis and interior bushings. The Asia Pacific region, home to several fast-growing economies, witnesses increasing demand for both passenger and commercial vehicles. This, coupled with growing urbanization and improving road infrastructure, stimulates the need for durable and efficient bushings. In contrast, the markets in the Middle East and Africa are gradually gaining momentum, propelled by the need for commercial vehicles equipped with sturdy bushings for operation in harsh terrains and climates.

Key Market Players

Delphi Technologies

Continental AG

Sumitomo Riko

Vibracoustic

Boge rubber and plastics

Hyundai Polytech India Pvt. Ltd.

Cooper Standard Holdings Ltd.

Dupont

Mahle

Tenneco

Report Scope:

In this report, the Global Automotive Bushing Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Automotive Bushing Market, By Application:

Suspension System Bushings

Engine Mount Bushings

Chassis Bushings

Transmission Bushings

Automotive Bushing Market, By Vehicle Type:

Passenger Car

Commercial Vehicle

Automotive Bushing Market, By Region:

North America

United States

Canada

Mexico

Europe & CIS

Germany

Spain

France

Russia

Italy

United Kingdom

Belgium

Asia-Pacific

China

India

Japan

Indonesia

Thailand

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

Turkey

Iran

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global

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Automotive Bushing Market.

Available Customizations:

Global Automotive Bushing Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. INTRODUCTION

- 1.1. Product Overview
- 1.2. Key Highlights of the Report
- 1.3. Market Coverage
- 1.4. Market Segments Covered
- 1.5. Research Tenure Considered

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Market Overview
- 3.2. Market Forecast
- 3.3. Key Regions
- 3.4. Key Segments

4. IMPACT OF COVID-19 ON GLOBAL AUTOMOTIVE BUSHING MARKET

5. GLOBAL AUTOMOTIVE BUSHING MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Volume & Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Vehicle Type Market Share Analysis (Passenger Car and Commercial Vehicle)
 - 5.2.2. By Application Type Market Share Analysis (Suspension System Bushings, Engine Mount Bushings, Chassis Bushings, and Transmission Bushings)
 - 5.2.3. By Regional Market Share Analysis

- 5.2.3.1. Asia-Pacific Market Share Analysis
- 5.2.3.2. Europe & CIS Market Share Analysis
- 5.2.3.3. North America Market Share Analysis
- 5.2.3.4. South America Market Share Analysis
- 5.2.3.5. Middle East & Africa Market Share Analysis
- 5.2.4. By Company Market Share Analysis (Top 5 Companies, Others - By Value, 2022)
- 5.3. Global Automotive Bushing Market Mapping & Opportunity Assessment
 - 5.3.1. By Application Market Mapping & Opportunity Assessment
 - 5.3.2. By Vehicle Type Market Mapping & Opportunity Assessment
 - 5.3.3. By Regional Market Mapping & Opportunity Assessment

6. ASIA-PACIFIC AUTOMOTIVE BUSHING MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Volume & Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Application Market Share Analysis
 - 6.2.2. By Vehicle Type Market Share Analysis
 - 6.2.3. By Country Market Share Analysis
 - 6.2.3.1. China Market Share Analysis
 - 6.2.3.2. India Market Share Analysis
 - 6.2.3.3. Japan Market Share Analysis
 - 6.2.3.4. Indonesia Market Share Analysis
 - 6.2.3.5. Thailand Market Share Analysis
 - 6.2.3.6. South Korea Market Share Analysis
 - 6.2.3.7. Australia Market Share Analysis
 - 6.2.3.8. Rest of Asia-Pacific Market Share Analysis
- 6.3. Asia-Pacific: Country Analysis
 - 6.3.1. China Automotive Bushing Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Volume & Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Application Market Share Analysis
 - 6.3.1.2.2. By Vehicle Type Market Share Analysis
 - 6.3.2. India Automotive Bushing Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Volume & Value
 - 6.3.2.2. Market Share & Forecast

- 6.3.2.2.1. By Application Market Share Analysis
- 6.3.2.2.2. By Vehicle Type Market Share Analysis
- 6.3.3. Japan Automotive Bushing Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Volume & Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Application Market Share Analysis
 - 6.3.3.2.2. By Vehicle Type Market Share Analysis
- 6.3.4. Indonesia Automotive Bushing Market Outlook
 - 6.3.4.1. Market Size & Forecast
 - 6.3.4.1.1. By Volume & Value
 - 6.3.4.2. Market Share & Forecast
 - 6.3.4.2.1. By Application Market Share Analysis
 - 6.3.4.2.2. By Vehicle Type Market Share Analysis
- 6.3.5. Thailand Automotive Bushing Market Outlook
 - 6.3.5.1. Market Size & Forecast
 - 6.3.5.1.1. By Volume & Value
 - 6.3.5.2. Market Share & Forecast
 - 6.3.5.2.1. By Application Market Share Analysis
 - 6.3.5.2.2. By Vehicle Type Market Share Analysis
- 6.3.6. South Korea Automotive Bushing Market Outlook
 - 6.3.6.1. Market Size & Forecast
 - 6.3.6.1.1. By Volume & Value
 - 6.3.6.2. Market Share & Forecast
 - 6.3.6.2.1. By Application Market Share Analysis
 - 6.3.6.2.2. By Vehicle Type Market Share Analysis
- 6.3.7. Australia Automotive Bushing Market Outlook
 - 6.3.7.1. Market Size & Forecast
 - 6.3.7.1.1. By Volume & Value
 - 6.3.7.2. Market Share & Forecast
 - 6.3.7.2.1. By Application Market Share Analysis
 - 6.3.7.2.2. By Vehicle Type Market Share Analysis

7. EUROPE & CIS AUTOMOTIVE BUSHING MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Volume & Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Application Market Share Analysis

- 7.2.2. By Vehicle Type Market Share Analysis
- 7.2.3. By Country Market Share Analysis
 - 7.2.3.1. Germany Market Share Analysis
 - 7.2.3.2. Spain Market Share Analysis
 - 7.2.3.3. France Market Share Analysis
 - 7.2.3.4. Russia Market Share Analysis
 - 7.2.3.5. Italy Market Share Analysis
 - 7.2.3.6. United Kingdom Market Share Analysis
 - 7.2.3.7. Belgium Market Share Analysis
 - 7.2.3.8. Rest of Europe & CIS Market Share Analysis
- 7.3. Europe & CIS: Country Analysis
 - 7.3.1. Germany Automotive Bushing Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Volume & Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Application Market Share Analysis
 - 7.3.1.2.2. By Vehicle Type Market Share Analysis
 - 7.3.2. Spain Automotive Bushing Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Volume & Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Application Market Share Analysis
 - 7.3.2.2.2. By Vehicle Type Market Share Analysis
 - 7.3.3. France Automotive Bushing Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Volume & Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Application Market Share Analysis
 - 7.3.3.2.2. By Vehicle Type Market Share Analysis
 - 7.3.4. Russia Automotive Bushing Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Volume & Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Application Market Share Analysis
 - 7.3.4.2.2. By Vehicle Type Market Share Analysis
 - 7.3.5. Italy Automotive Bushing Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Volume & Value
 - 7.3.5.2. Market Share & Forecast

- 7.3.5.2.1. By Application Market Share Analysis
- 7.3.5.2.2. By Vehicle Type Market Share Analysis
- 7.3.6. United Kingdom Automotive Bushing Market Outlook
 - 7.3.6.1. Market Size & Forecast
 - 7.3.6.1.1. By Volume & Value
 - 7.3.6.2. Market Share & Forecast
 - 7.3.6.2.1. By Application Market Share Analysis
 - 7.3.6.2.2. By Vehicle Type Market Share Analysis
- 7.3.7. Belgium Automotive Bushing Market Outlook
 - 7.3.7.1. Market Size & Forecast
 - 7.3.7.1.1. By Volume & Value
 - 7.3.7.2. Market Share & Forecast
 - 7.3.7.2.1. By Application Market Share Analysis
 - 7.3.7.2.2. By Vehicle Type Market Share Analysis

8. NORTH AMERICA AUTOMOTIVE BUSHING MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Volume & Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Application Market Share Analysis
 - 8.2.2. By Vehicle Type Market Share Analysis
 - 8.2.3. By Country Market Share Analysis
 - 8.2.3.1. United States Market Share Analysis
 - 8.2.3.2. Mexico Market Share Analysis
 - 8.2.3.3. Canada Market Share Analysis
- 8.3. North America: Country Analysis
 - 8.3.1. United States Automotive Bushing Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Volume & Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Application Market Share Analysis
 - 8.3.1.2.2. By Vehicle Type Market Share Analysis
 - 8.3.2. Mexico Automotive Bushing Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Volume & Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Application Market Share Analysis
 - 8.3.2.2.2. By Vehicle Type Market Share Analysis

8.3.3. Canada Automotive Bushing Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Volume & Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Application Market Share Analysis

8.3.3.2.2. By Vehicle Type Market Share Analysis

9. SOUTH AMERICA AUTOMOTIVE BUSHING MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Volume & Value

9.2. Market Share & Forecast

9.2.1. By Application Market Share Analysis

9.2.2. By Vehicle Type Market Share Analysis

9.2.3. By Country Market Share Analysis

9.2.3.1. Brazil Market Share Analysis

9.2.3.2. Argentina Market Share Analysis

9.2.3.3. Colombia Market Share Analysis

9.2.3.4. Rest of South America Market Share Analysis

9.3. South America: Country Analysis

9.3.1. Brazil Automotive Bushing Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Volume & Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Application Market Share Analysis

9.3.1.2.2. By Vehicle Type Market Share Analysis

9.3.2. Colombia Automotive Bushing Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Volume & Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Application Market Share Analysis

9.3.2.2.2. By Vehicle Type Market Share Analysis

9.3.3. Argentina Automotive Bushing Market Outlook

9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Volume & Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Application Market Share Analysis

9.3.3.2.2. By Vehicle Type Market Share Analysis

10. MIDDLE EAST & AFRICA AUTOMOTIVE BUSHING MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Volume & Value

10.2. Market Share & Forecast

10.2.1. By Application Market Share Analysis

10.2.2. By Vehicle Type Market Share Analysis

10.2.3. By Country Market Share Analysis

10.2.3.1. Turkey Market Share Analysis

10.2.3.2. Iran Market Share Analysis

10.2.3.3. Saudi Arabia Market Share Analysis

10.2.3.4. UAE Market Share Analysis

10.2.3.5. Rest of Middle East & Africa Market Share Africa

10.3. Middle East & Africa: Country Analysis

10.3.1. Turkey Automotive Bushing Market Outlook

10.3.1.1. Market Size & Forecast

10.3.1.1.1. By Volume & Value

10.3.1.2. Market Share & Forecast

10.3.1.2.1. By Application Market Share Analysis

10.3.1.2.2. By Vehicle Type Market Share Analysis

10.3.2. Iran Automotive Bushing Market Outlook

10.3.2.1. Market Size & Forecast

10.3.2.1.1. By Volume & Value

10.3.2.2. Market Share & Forecast

10.3.2.2.1. By Application Market Share Analysis

10.3.2.2.2. By Vehicle Type Market Share Analysis

10.3.3. Saudi Arabia Automotive Bushing Market Outlook

10.3.3.1. Market Size & Forecast

10.3.3.1.1. By Volume & Value

10.3.3.2. Market Share & Forecast

10.3.3.2.1. By Application Market Share Analysis

10.3.3.2.2. By Vehicle Type Market Share Analysis

10.3.4. UAE Automotive Bushing Market Outlook

10.3.4.1. Market Size & Forecast

10.3.4.1.1. By Volume & Value

10.3.4.2. Market Share & Forecast

10.3.4.2.1. By Application Market Share Analysis

10.3.4.2.2. By Vehicle Type Market Share Analysis

11. SWOT ANALYSIS

- 11.1. Strength
- 11.2. Weakness
- 11.3. Opportunities
- 11.4. Threats

12. MARKET DYNAMICS

- 12.1. Market Drivers
- 12.2. Market Challenges

13. MARKET TRENDS AND DEVELOPMENTS

14. COMPETITIVE LANDSCAPE

- 14.1. Company Profiles (Up to 10 Major Companies)
 - 14.1.1. BigchainDB GmbH
 - 14.1.1.1. Company Details
 - 14.1.1.2. Key Product Offered
 - 14.1.1.3. Financials (As Per Availability)
 - 14.1.1.4. Recent Developments
 - 14.1.1.5. Key Management Personnel
 - 14.1.2. Microsoft Corporation
 - 14.1.2.1. Company Details
 - 14.1.2.2. Key Product Offered
 - 14.1.2.3. Financials (As Per Availability)
 - 14.1.2.4. Recent Developments
 - 14.1.2.5. Key Management Personnel
 - 14.1.3. Tech Mahindra Limited
 - 14.1.3.1. Company Details
 - 14.1.3.2. Key Product Offered
 - 14.1.3.3. Financials (As Per Availability)
 - 14.1.3.4. Recent Developments
 - 14.1.3.5. Key Management Personnel
 - 14.1.4. Accenture plc
 - 14.1.4.1. Company Details
 - 14.1.4.2. Key Product Offered
 - 14.1.4.3. Financials (As Per Availability)

- 14.1.4.4. Recent Developments
- 14.1.4.5. Key Management Personnel
- 14.1.5. IBM Corporation
 - 14.1.5.1. Company Details
 - 14.1.5.2. Key Product Offered
 - 14.1.5.3. Financials (As Per Availability)
 - 14.1.5.4. Recent Developments
 - 14.1.5.5. Key Management Personnel
- 14.1.6. carVertical
 - 14.1.6.1. Company Details
 - 14.1.6.2. Key Product Offered
 - 14.1.6.3. Financials (As Per Availability)
 - 14.1.6.4. Recent Developments
 - 14.1.6.5. Key Management Personnel
- 14.1.7. Autoblock
 - 14.1.7.1. Company Details
 - 14.1.7.2. Key Product Offered
 - 14.1.7.3. Financials (As Per Availability)
 - 14.1.7.4. Recent Developments
 - 14.1.7.5. Key Management Personnel
- 14.1.8. GEM
 - 14.1.8.1. Company Details
 - 14.1.8.2. Key Product Offered
 - 14.1.8.3. Financials (As Per Availability)
 - 14.1.8.4. Recent Developments
 - 14.1.8.5. Key Management Personnel
- 14.1.9. Axt.
 - 14.1.9.1. Company Details
 - 14.1.9.2. Key Product Offered
 - 14.1.9.3. Financials (As Per Availability)
 - 14.1.9.4. Recent Developments
 - 14.1.9.5. Key Management Personnel
- 14.1.10. SHIFTMobility Inc.
 - 14.1.10.1. Company Details
 - 14.1.10.2. Key Product Offered
 - 14.1.10.3. Financials (As Per Availability)
 - 14.1.10.4. Recent Developments
 - 14.1.10.5. Key Management Personnel

15. STRATEGIC RECOMMENDATIONS

15.1. Key Focus Areas

15.1.1. Target Regions & Countries

15.1.2. Target By Application

15.1.3. Target By Vehicle Type

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