+44 20 8123 2220
info@marketpublishers.com

Automotive Brake Technology Market Size, Trends, Analysis, and Outlook by Type (Anti-lock Braking System (ABS), Traction Control System (TCS), Electronic Stability Control (ESC)), Brake (Disk brake, Drum brake), Sales Channel (OEM, Aftermarket), Vehicle (Passenger cars, Commercial vehicles), Material (Organic, Metallic, Ceramic), by Country, Segment, and Companies, 2024-2030

https://marketpublishers.com/r/AC57816BA105EN.html
Date: April 2024
Pages: 210
Price: US$ 3,980.00 (Single User License)
ID: AC57816BA105EN

Abstracts

The global Automotive Artificial Intelligence market size is poised to register 28.05% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The study analyzes the global Automotive Artificial Intelligence market by Offering (Hardware, Software), Technology (Deep Learning, Machine Learning, Context- aware Computing, Computer Vision, Natural Language Processing), Process (Signal Recognition, Image Recognition, Data Mining), Application (Human–Machine Interface, Semi-autonomous Driving, Autonomous Driving, Identity Authentication, Driver Monitoring, Autonomous Driving Processor Chips), Component (Graphics processing unit (GPU), Microprocessors, Field Programmable Gate Array (FPGA), Memory and Storage systems, Image Sensors, Biometric Scanners, Others). The Automotive Artificial Intelligence Market is poised for profound evolution until 2030, driven by several pivotal trends and drivers. With the rapid advancement of autonomous driving technology, there's a growing demand for artificial intelligence (AI) solutions to enable vehicles to perceive their surroundings, make real-time decisions, and navigate complex environments safely. This demand is further accelerated by the increasing integration of AI-powered features such as driver-assistance systems, predictive maintenance, and personalized in-car experiences. In addition, as connectivity becomes

+44 20 8123 2220
info@marketpublishers.com

ubiquitous and vehicles generate vast amounts of data, AI algorithms are expected to play a crucial role in analyzing and extracting valuable insights to optimize vehicle performance, enhance safety, and improve the .

Automotive Artificial Intelligence Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The Automotive Artificial Intelligence market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Automotive Artificial Intelligence survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the Automotive Artificial Intelligence industry.

Key market trends defining the global Automotive Artificial Intelligence demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

Automotive Artificial Intelligence Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Automotive Artificial Intelligence industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Automotive Artificial Intelligence companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

Key strategies adopted by companies within the Automotive Artificial Intelligence industry

Leading Automotive Artificial Intelligence companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 Automotive Artificial Intelligence

companies.

Automotive Artificial Intelligence Market Study- Strategic Analysis Review
The Automotive Artificial Intelligence market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-
Industry Dynamics: Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.
Strategic Insights: Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.
Internal Strengths and Weaknesses: Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.
Future Possibilities: Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

Automotive Artificial Intelligence Market Size Outlook- Historic and Forecast Revenue in Three Cases
The Automotive Artificial Intelligence industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

Automotive Artificial Intelligence Country Analysis and Revenue Outlook to 2030
The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2030.

North America Automotive Artificial Intelligence Market Size Outlook- Companies plan for focused investments in a changing environment
The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various Automotive Artificial Intelligence market segments. Similarly, Strong end-user demand is encouraging Canadian Automotive Artificial Intelligence companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Automotive Artificial Intelligence market is expected to experience significant

expansion, offering lucrative opportunities for both domestic and international stakeholders.

Europe Automotive Artificial Intelligence Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities
The German industry remains the major market for companies in the European Automotive Artificial Intelligence industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses in identifying and leveraging new growth prospects positions the European Automotive Artificial Intelligence market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

Asia Pacific Automotive Artificial Intelligence Market Size Outlook- an attractive hub for opportunities for both local and global companies
The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Automotive Artificial Intelligence in Asia Pacific. In particular, China, India, and South East Asian Automotive Artificial Intelligence markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major markets in the region.

Latin America Automotive Artificial Intelligence Market Size Outlook- Continued urbanization and rising income levels
Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

Middle East and Africa Automotive Artificial Intelligence Market Size Outlook- continues its upward trajectory across segments
Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East Automotive Artificial

+44 20 8123 2220
info@marketpublishers.com

Intelligence market potential. Fueled by increasing consumption expenditure, growing population, and high demand across a few markets drives the demand for Automotive Artificial Intelligence.

Automotive Artificial Intelligence Market Company Profiles
The global Automotive Artificial Intelligence market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are Alphabet Inc, Audi AG, Automotive Artificial Intelligence GmbH, BMW AG, Daimler AG, Didi Chuxing Technology Co. Ltd, Ford Motor Company, General Motors Company, Harman International Industries Inc, Honda Motor Co. Ltd, Hyundai Motor Corp, IBM Corp, Intel Corp, Micron Technology, Microsoft Corp, Mitsubishi Electric Corp, Motor Corp, Nvidia Corp, Qualcomm Inc, Tesla Inc, Uber Technologies Inc, Volvo Car Corp, Xilinx Inc.

Recent Automotive Artificial Intelligence Market Developments
The global Automotive Artificial Intelligence market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

Automotive Artificial Intelligence Market Report Scope
Parameters: Revenue, Volume Price
Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast Period)
Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)
Qualitative Analysis
Pricing Analysis
Value Chain Analysis
SWOT Profile
Market Dynamics- Trends, Drivers, Challenges
Porter’s Five Forces Analysis
Macroeconomic Impact Analysis
Case Scenarios- Low, Base, High

Market Segmentation:
Offering
Hardware
Software

+44 20 8123 2220
info@marketpublishers.com

Technology
Deep Learning
Machine Learning
Context- aware Computing
Computer Vision
Natural Language Processing
Process
Signal Recognition
Image Recognition
Data Mining
Application
Human–Machine Interface
Semi-autonomous Driving
Autonomous Driving
Identity Authentication
Driver Monitoring
Autonomous Driving Processor Chips
Component
Graphics processing unit (GPU)
Microprocessors
Field Programmable Gate Array (FPGA)
Memory and Storage systems
Image Sensors
Biometric Scanners
Others

Geographical Segmentation:
North America (3 markets)
Europe (6 markets)
Asia Pacific (6 markets)
Latin America (3 markets)
Middle East Africa (5 markets)

Companies
Alphabet Inc
Audi AG
Automotive Artificial Intelligence GmbH
BMW AG
Daimler AG

+44 20 8123 2220
info@marketpublishers.com

Didi Chuxing Technology Co. Ltd
Ford Motor Company
General Motors Company
Harman International Industries Inc
Honda Motor Co. Ltd
Hyundai Motor Corp
IBM Corp
Intel Corp
Micron Technology
Microsoft Corp
Mitsubishi Electric Corp
Motor Corp
Nvidia Corp
Qualcomm Inc
Tesla Inc
Uber Technologies Inc
Volvo Car Corp
Xilinx Inc.
Formats Available: Excel, PDF, and PPT

+44 20 8123 2220
info@marketpublishers.com

Contents

1. EXECUTIVE SUMMARY

1.1 Automotive Brake Technology Market Overview and Key Findings, 2024
1.2 Automotive Brake Technology Market Size and Growth Outlook, 2021- 2030
1.3 Automotive Brake Technology Market Growth Opportunities to 2030
1.4 Key Automotive Brake Technology Market Trends and Challenges
  1.4.1 Automotive Brake Technology Market Drivers and Trends
  1.4.2 Automotive Brake Technology Market Challenges
1.5 Competitive Landscape and Key Players
1.6 Competitive Analysis- Growth Strategies Adopted by Leading Automotive Brake Technology Companies

2. AUTOMOTIVE BRAKE TECHNOLOGY MARKET SIZE OUTLOOK TO 2030

2.1 Automotive Brake Technology Market Size Outlook, USD Million, 2021- 2030
2.2 Automotive Brake Technology Incremental Market Growth Outlook, %, 2021- 2030
2.3 Segment Snapshot, 2024

3. AUTOMOTIVE BRAKE TECHNOLOGY MARKET- STRATEGIC ANALYSIS REVIEW

3.1 Porter's Five Forces Analysis
* Threat of New Entrants
* Threat of Substitutes
* Intensity of Competitive Rivalry
* Bargaining Power of Buyers
* Bargaining Power of Suppliers
3.2 Value Chain Analysis
3.3 SWOT Analysis

4. AUTOMOTIVE BRAKE TECHNOLOGY MARKET SEGMENTATION ANALYSIS AND OUTLOOK

4.1 Market Segmentation and Scope
4.2 Market Breakdown by Type, Application, and Other Segments, 2021-2030
Type
Anti-lock Braking System (ABS)

+44 20 8123 2220
info@marketpublishers.com

Traction Control System (TCS)
Electronic Stability Control (ESC)
Brake
Disk brake
Drum brake
Sales Channel
Original Equipment Manufacturers (OEM)
Aftermarket
Vehicle
Passenger cars
Commercial vehicles
Material
Organic
Metallic
Ceramic
4.3 Growth Prospects and Niche Opportunities, 2023- 2030
4.4 Regional comparison of Market Growth, CAGR, 2023-2030

5. REGION-WISE MARKET OUTLOOK TO 2030

5.1 Key Findings for Asia Pacific Automotive Brake Technology Market, 2025
5.2 Asia Pacific Automotive Brake Technology Market Size Outlook by Type, 2021-2030
5.3 Asia Pacific Automotive Brake Technology Market Size Outlook by Application, 2021- 2030
5.4 Key Findings for Europe Automotive Brake Technology Market, 2025
5.5 Europe Automotive Brake Technology Market Size Outlook by Type, 2021- 2030
5.6 Europe Automotive Brake Technology Market Size Outlook by Application, 2021-2030
5.7 Key Findings for North America Automotive Brake Technology Market, 2025
5.8 North America Automotive Brake Technology Market Size Outlook by Type, 2021-2030
5.9 North America Automotive Brake Technology Market Size Outlook by Application, 2021- 2030
5.10 Key Findings for South America Automotive Brake Technology Market, 2025
5.11 South America Pacific Automotive Brake Technology Market Size Outlook by Type, 2021- 2030
5.12 South America Automotive Brake Technology Market Size Outlook by Application, 2021- 2030

+44 20 8123 2220
info@marketpublishers.com

5.13 Key Findings for Middle East and Africa Automotive Brake Technology Market, 2025
5.14 Middle East Africa Automotive Brake Technology Market Size Outlook by Type, 2021- 2030
5.15 Middle East Africa Automotive Brake Technology Market Size Outlook by Application, 2021- 2030

6. COUNTRY-WISE MARKET SIZE OUTLOOK TO 2030

6.1 US Automotive Brake Technology Market Size Outlook and Revenue Growth Forecasts
6.2 US Automotive Brake Technology Industry Drivers and Opportunities
6.3 Canada Market Size Outlook and Revenue Growth Forecasts
6.4 Canada Automotive Brake Technology Industry Drivers and Opportunities
6.6 Mexico Market Size Outlook and Revenue Growth Forecasts
6.6 Mexico Automotive Brake Technology Industry Drivers and Opportunities
6.7 Germany Market Size Outlook and Revenue Growth Forecasts
6.8 Germany Automotive Brake Technology Industry Drivers and Opportunities
6.9 France Market Size Outlook and Revenue Growth Forecasts
6.10 France Automotive Brake Technology Industry Drivers and Opportunities
6.11 UK Market Size Outlook and Revenue Growth Forecasts
6.12 UK Automotive Brake Technology Industry Drivers and Opportunities
6.13 Spain Market Size Outlook and Revenue Growth Forecasts
6.14 Spain Automotive Brake Technology Industry Drivers and Opportunities
6.16 Italy Market Size Outlook and Revenue Growth Forecasts
6.16 Italy Automotive Brake Technology Industry Drivers and Opportunities
6.17 Rest of Europe Market Size Outlook and Revenue Growth Forecasts
6.18 Rest of Europe Automotive Brake Technology Industry Drivers and Opportunities
6.19 China Market Size Outlook and Revenue Growth Forecasts
6.20 China Automotive Brake Technology Industry Drivers and Opportunities
6.21 India Market Size Outlook and Revenue Growth Forecasts
6.22 India Automotive Brake Technology Industry Drivers and Opportunities
6.23 Japan Market Size Outlook and Revenue Growth Forecasts
6.24 Japan Automotive Brake Technology Industry Drivers and Opportunities
6.26 South Korea Market Size Outlook and Revenue Growth Forecasts
6.26 South Korea Automotive Brake Technology Industry Drivers and Opportunities
6.27 Australia Market Size Outlook and Revenue Growth Forecasts
6.28 Australia Automotive Brake Technology Industry Drivers and Opportunities
6.29 South East Asia Market Size Outlook and Revenue Growth Forecasts

+44 20 8123 2220
info@marketpublishers.com

6.30 South East Asia Automotive Brake Technology Industry Drivers and Opportunities
6.31 Rest of Asia Pacific Market Size Outlook and Revenue Growth Forecasts
6.32 Rest of Asia Pacific Automotive Brake Technology Industry Drivers and Opportunities
6.33 Brazil Market Size Outlook and Revenue Growth Forecasts
6.34 Brazil Automotive Brake Technology Industry Drivers and Opportunities
6.36 Argentina Market Size Outlook and Revenue Growth Forecasts
6.36 Argentina Automotive Brake Technology Industry Drivers and Opportunities
6.37 Rest of South America Market Size Outlook and Revenue Growth Forecasts
6.38 Rest of South America Automotive Brake Technology Industry Drivers and Opportunities
6.39 Middle East Market Size Outlook and Revenue Growth Forecasts
6.40 Middle East Automotive Brake Technology Industry Drivers and Opportunities
6.41 Africa Market Size Outlook and Revenue Growth Forecasts
6.42 Africa Automotive Brake Technology Industry Drivers and Opportunities

7. AUTOMOTIVE BRAKE TECHNOLOGY MARKET OUTLOOK ACROSS SCENARIOS

7.1 Low Growth Case
7.2 Reference Growth Case
7.3 High Growth Case

8. AUTOMOTIVE BRAKE TECHNOLOGY COMPANY PROFILES

8.1 Profiles of Leading Automotive Brake Technology Companies in the Market
8.2 Business Descriptions, SWOT Analysis, and Growth Strategies
8.3 Financial Performance and Key Metrics
Akebono Brake Industry Co. Ltd
Brembo S.p.A.
Continental AG
Federal-Mogul LLC
Haldex AB
Hyundai Mobis Co. Ltd
Knorr-Bremse AG
Meritor Inc
Nissin Kogyo Co. Ltd
TMD Friction Group S.A

+44 20 8123 2220
info@marketpublishers.com

9. APPENDIX

9.1 Scope of the Report
9.2 Research Methodology and Data Sources
9.3 Glossary of Terms
9.4 Market Definitions
9.5 Contact Information

+44 20 8123 2220
info@marketpublishers.com

I would like to order

Product name: Automotive Brake Technology Market Size, Trends, Analysis, and Outlook by Type (Anti-lock Braking System (ABS), Traction Control System (TCS), Electronic Stability Control (ESC)), Brake (Disk brake, Drum brake), Sales Channel (OEM, Aftermarket), Vehicle (Passenger cars, Commercial vehicles), Material (Organic, Metallic, Ceramic), by Country, Segment, and Companies, 2024-2030

Product link: https://marketpublishers.com/r/AC57816BA105EN.html

Price: US$ 3,980.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/AC57816BA105EN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

**All fields are required

Custumer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at https://marketpublishers.com/docs/terms.html

+44 20 8123 2220
info@marketpublishers.com

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970