

Active Rollover Protection Market, Global Outlook and Forecast 2022-2028

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Abstracts

An active rollover protection (ARP), is a system that recognizes impending rollover and selectively applies brakes to resist. ARP builds on electronic stability control and its three chassis control systems already on the vehicle – anti-lock braking system, traction control and yaw control. ARP adds another function: detection of an impending rollover. Excessive lateral force, generated by excessive speed in a turn, may result in a rollover. ARP automatically responds whenever it detects a potential rollover. ARP rapidly applies the brakes with a high burst of pressure to the appropriate wheels and sometimes decreases the engine torque to interrupt the rollover before it occurs.

Rollovers can also occur when the vehicle is knocked into a stationary object such as a curb. In these so-called 'trip events', a vehicle hit from the side but kept from moving laterally by a curb would produce a moment about the center of gravity sufficient to produce a rollover. To counteract this, rollover stability systems have begun to incorporate an active suspension system in rollover protection. To accomplish this, the onboard computer uses data from the inertial measurement unit (IMU) to determine when a vehicle is in a rollover condition independent of yaw rate and vehicle speed. When the computer determines that the vehicle is at risk of rollover, it calculates the direction of roll and activates the active suspension system. The force produced in the suspension creates a moment (torque) opposite to that created by the lateral force, and keeps the vehicle safe. ARP is designed to reduce the risk of on-road rollover situations in case of dynamic (e.g. lane change) and steady state maneuvers (e.g. vehicle turns with constant radius and increasing vehicle velocity). In addition the occupants can be prepared for a possible rollover. As an option, the reversible belt tensioner brings the occupant in the optimal sitting position.

This report contains market size and forecasts of Active Rollover Protection in Global,

including the following market information:

Global Active Rollover Protection Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global top five companies in 2021 (%)

The global Active Rollover Protection market was valued at million in 2021 and is projected to reach US\$ million by 2028, at a CAGR of % during the forecast period 2022-2028.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

Anti-Lock Braking System Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Active Rollover Protection include Continental AG, Air-Rops, Ford, CTi Sensors and Volkswagen, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Active Rollover Protection companies, and industry experts on this industry, involving the revenue, demand, product type, recent developments and plans, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Active Rollover Protection Market, by Type, 2017-2022, 2023-2028 (\$ millions)

Global Active Rollover Protection Market Segment Percentages, by Type, 2021 (%)

Anti-Lock Braking System

Traction Control System

Yaw Control System

Global Active Rollover Protection Market, by Application, 2017-2022, 2023-2028 (\$

millions)

Global Active Rollover Protection Market Segment Percentages, by Application, 2021 (%)

Tractor

Quads/atv

Dumper

Others

Global Active Rollover Protection Market, By Region and Country, 2017-2022, 2023-2028 (\$ Millions)

Global Active Rollover Protection Market Segment Percentages, By Region and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Active Rollover Protection revenues in global market, 2017-2022 (estimated), (\$ millions)

Key companies Active Rollover Protection revenues share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

Continental AG

Air-Rops

Ford

CTi Sensors

Volkswagen

Contents

1 INTRODUCTION TO RESEARCH & ANALYSIS REPORTS

- 1.1 Active Rollover Protection Market Definition
- 1.2 Market Segments
 - 1.2.1 Market by Type
 - 1.2.2 Market by Application
- 1.3 Global Active Rollover Protection Market Overview
- 1.4 Features & Benefits of This Report
- 1.5 Methodology & Sources of Information
 - 1.5.1 Research Methodology
 - 1.5.2 Research Process
 - 1.5.3 Base Year
 - 1.5.4 Report Assumptions & Caveats

2 GLOBAL ACTIVE ROLLOVER PROTECTION OVERALL MARKET SIZE

- 2.1 Global Active Rollover Protection Market Size: 2021 VS 2028
- 2.2 Global Active Rollover Protection Market Size, Prospects & Forecasts: 2017-2028
- 2.3 Key Market Trends, Opportunity, Drivers and Restraints
 - 2.3.1 Market Opportunities & Trends
 - 2.3.2 Market Drivers
 - 2.3.3 Market Restraints

3 COMPANY LANDSCAPE

- 3.1 Top Active Rollover Protection Players in Global Market
- 3.2 Top Global Active Rollover Protection Companies Ranked by Revenue
- 3.3 Global Active Rollover Protection Revenue by Companies
- 3.4 Top 3 and Top 5 Active Rollover Protection Companies in Global Market, by Revenue in 2021
- 3.5 Global Companies Active Rollover Protection Product Type
- 3.6 Tier 1, Tier 2 and Tier 3 Active Rollover Protection Players in Global Market
 - 3.6.1 List of Global Tier 1 Active Rollover Protection Companies
 - 3.6.2 List of Global Tier 2 and Tier 3 Active Rollover Protection Companies

4 MARKET SIGHTS BY PRODUCT

4.1 Overview

4.1.1 by Type - Global Active Rollover Protection Market Size Markets, 2021 & 2028

4.1.2 Anti-Lock Braking System

4.1.3 Traction Control System

4.1.4 Yaw Control System

4.2 By Type - Global Active Rollover Protection Revenue & Forecasts

4.2.1 By Type - Global Active Rollover Protection Revenue, 2017-2022

4.2.2 By Type - Global Active Rollover Protection Revenue, 2023-2028

4.2.3 By Type - Global Active Rollover Protection Revenue Market Share, 2017-2028

5 SIGHTS BY APPLICATION

5.1 Overview

5.1.1 By Application - Global Active Rollover Protection Market Size, 2021 & 2028

5.1.2 Tractor

5.1.3 Quads/atv

5.1.4 Dumper

5.1.5 Others

5.2 By Application - Global Active Rollover Protection Revenue & Forecasts

5.2.1 By Application - Global Active Rollover Protection Revenue, 2017-2022

5.2.2 By Application - Global Active Rollover Protection Revenue, 2023-2028

5.2.3 By Application - Global Active Rollover Protection Revenue Market Share, 2017-2028

6 SIGHTS BY REGION

6.1 By Region - Global Active Rollover Protection Market Size, 2021 & 2028

6.2 By Region - Global Active Rollover Protection Revenue & Forecasts

6.2.1 By Region - Global Active Rollover Protection Revenue, 2017-2022

6.2.2 By Region - Global Active Rollover Protection Revenue, 2023-2028

6.2.3 By Region - Global Active Rollover Protection Revenue Market Share, 2017-2028

6.3 North America

6.3.1 By Country - North America Active Rollover Protection Revenue, 2017-2028

6.3.2 US Active Rollover Protection Market Size, 2017-2028

6.3.3 Canada Active Rollover Protection Market Size, 2017-2028

6.3.4 Mexico Active Rollover Protection Market Size, 2017-2028

6.4 Europe

6.4.1 By Country - Europe Active Rollover Protection Revenue, 2017-2028

6.4.2 Germany Active Rollover Protection Market Size, 2017-2028

6.4.3 France Active Rollover Protection Market Size, 2017-2028

6.4.4 U.K. Active Rollover Protection Market Size, 2017-2028

6.4.5 Italy Active Rollover Protection Market Size, 2017-2028

6.4.6 Russia Active Rollover Protection Market Size, 2017-2028

6.4.7 Nordic Countries Active Rollover Protection Market Size, 2017-2028

6.4.8 Benelux Active Rollover Protection Market Size, 2017-2028

6.5 Asia

6.5.1 By Region - Asia Active Rollover Protection Revenue, 2017-2028

6.5.2 China Active Rollover Protection Market Size, 2017-2028

6.5.3 Japan Active Rollover Protection Market Size, 2017-2028

6.5.4 South Korea Active Rollover Protection Market Size, 2017-2028

6.5.5 Southeast Asia Active Rollover Protection Market Size, 2017-2028

6.5.6 India Active Rollover Protection Market Size, 2017-2028

6.6 South America

6.6.1 By Country - South America Active Rollover Protection Revenue, 2017-2028

6.6.2 Brazil Active Rollover Protection Market Size, 2017-2028

6.6.3 Argentina Active Rollover Protection Market Size, 2017-2028

6.7 Middle East & Africa

6.7.1 By Country - Middle East & Africa Active Rollover Protection Revenue, 2017-2028

6.7.2 Turkey Active Rollover Protection Market Size, 2017-2028

6.7.3 Israel Active Rollover Protection Market Size, 2017-2028

6.7.4 Saudi Arabia Active Rollover Protection Market Size, 2017-2028

6.7.5 UAE Active Rollover Protection Market Size, 2017-2028

7 PLAYERS PROFILES

7.1 Continental AG

7.1.1 Continental AG Corporate Summary

7.1.2 Continental AG Business Overview

7.1.3 Continental AG Active Rollover Protection Major Product Offerings

7.1.4 Continental AG Active Rollover Protection Revenue in Global Market (2017-2022)

7.1.5 Continental AG Key News

7.2 Air-Rops

7.2.1 Air-Rops Corporate Summary

7.2.2 Air-Rops Business Overview

7.2.3 Air-Rops Active Rollover Protection Major Product Offerings

7.2.4 Air-Rops Active Rollover Protection Revenue in Global Market (2017-2022)

7.2.5 Air-Rops Key News

7.3 Ford

7.3.1 Ford Corporate Summary

7.3.2 Ford Business Overview

7.3.3 Ford Active Rollover Protection Major Product Offerings

7.3.4 Ford Active Rollover Protection Revenue in Global Market (2017-2022)

7.3.5 Ford Key News

7.4 CTi Sensors

7.4.1 CTi Sensors Corporate Summary

7.4.2 CTi Sensors Business Overview

7.4.3 CTi Sensors Active Rollover Protection Major Product Offerings

7.4.4 CTi Sensors Active Rollover Protection Revenue in Global Market (2017-2022)

7.4.5 CTi Sensors Key News

7.5 Volkswagen

7.5.1 Volkswagen Corporate Summary

7.5.2 Volkswagen Business Overview

7.5.3 Volkswagen Active Rollover Protection Major Product Offerings

7.5.4 Volkswagen Active Rollover Protection Revenue in Global Market (2017-2022)

7.5.5 Volkswagen Key News

8 CONCLUSION

9 APPENDIX

9.1 Note

9.2 Examples of Clients

9.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Active Rollover Protection Market Opportunities & Trends in Global Market

Table 2. Active Rollover Protection Market Drivers in Global Market

Table 3. Active Rollover Protection Market Restraints in Global Market

Table 4. Key Players of Active Rollover Protection in Global Market

Table 5. Top Active Rollover Protection Players in Global Market, Ranking by Revenue (2021)

Table 6. Global Active Rollover Protection Revenue by Companies, (US\$, Mn), 2017-2022

Table 7. Global Active Rollover Protection Revenue Share by Companies, 2017-2022

Table 8. Global Companies Active Rollover Protection Product Type

Table 9. List of Global Tier 1 Active Rollover Protection Companies, Revenue (US\$, Mn) in 2021 and Market Share

Table 10. List of Global Tier 2 and Tier 3 Active Rollover Protection Companies, Revenue (US\$, Mn) in 2021 and Market Share

Table 11. By Type – Global Active Rollover Protection Revenue, (US\$, Mn), 2021 & 2028

Table 12. By Type - Active Rollover Protection Revenue in Global (US\$, Mn), 2017-2022

Table 13. By Type - Active Rollover Protection Revenue in Global (US\$, Mn), 2023-2028

Table 14. By Application – Global Active Rollover Protection Revenue, (US\$, Mn), 2021 & 2028

Table 15. By Application - Active Rollover Protection Revenue in Global (US\$, Mn), 2017-2022

Table 16. By Application - Active Rollover Protection Revenue in Global (US\$, Mn), 2023-2028

Table 17. By Region – Global Active Rollover Protection Revenue, (US\$, Mn), 2021 & 2028

Table 18. By Region - Global Active Rollover Protection Revenue (US\$, Mn), 2017-2022

Table 19. By Region - Global Active Rollover Protection Revenue (US\$, Mn), 2023-2028

Table 20. By Country - North America Active Rollover Protection Revenue, (US\$, Mn), 2017-2022

Table 21. By Country - North America Active Rollover Protection Revenue, (US\$, Mn),

2023-2028

Table 22. By Country - Europe Active Rollover Protection Revenue, (US\$, Mn), 2017-2022

Table 23. By Country - Europe Active Rollover Protection Revenue, (US\$, Mn), 2023-2028

Table 24. By Region - Asia Active Rollover Protection Revenue, (US\$, Mn), 2017-2022

Table 25. By Region - Asia Active Rollover Protection Revenue, (US\$, Mn), 2023-2028

Table 26. By Country - South America Active Rollover Protection Revenue, (US\$, Mn), 2017-2022

Table 27. By Country - South America Active Rollover Protection Revenue, (US\$, Mn), 2023-2028

Table 28. By Country - Middle East & Africa Active Rollover Protection Revenue, (US\$, Mn), 2017-2022

Table 29. By Country - Middle East & Africa Active Rollover Protection Revenue, (US\$, Mn), 2023-2028

Table 30. Continental AG Corporate Summary

Table 31. Continental AG Active Rollover Protection Product Offerings

Table 32. Continental AG Active Rollover Protection Revenue (US\$, Mn), (2017-2022)

Table 33. Air-Rops Corporate Summary

Table 34. Air-Rops Active Rollover Protection Product Offerings

Table 35. Air-Rops Active Rollover Protection Revenue (US\$, Mn), (2017-2022)

Table 36. Ford Corporate Summary

Table 37. Ford Active Rollover Protection Product Offerings

Table 38. Ford Active Rollover Protection Revenue (US\$, Mn), (2017-2022)

Table 39. CTi Sensors Corporate Summary

Table 40. CTi Sensors Active Rollover Protection Product Offerings

Table 41. CTi Sensors Active Rollover Protection Revenue (US\$, Mn), (2017-2022)

Table 42. Volkswagen Corporate Summary

Table 43. Volkswagen Active Rollover Protection Product Offerings

Table 44. Volkswagen Active Rollover Protection Revenue (US\$, Mn), (2017-2022)

List Of Figures

LIST OF FIGURES

- Figure 1. Active Rollover Protection Segment by Type in 2021
- Figure 2. Active Rollover Protection Segment by Application in 2021
- Figure 3. Global Active Rollover Protection Market Overview: 2021
- Figure 4. Key Caveats
- Figure 5. Global Active Rollover Protection Market Size: 2021 VS 2028 (US\$, Mn)
- Figure 6. Global Active Rollover Protection Revenue, 2017-2028 (US\$, Mn)
- Figure 7. The Top 3 and 5 Players Market Share by Active Rollover Protection Revenue in 2021
- Figure 8. By Type - Global Active Rollover Protection Revenue Market Share, 2017-2028
- Figure 9. By Application - Global Active Rollover Protection Revenue Market Share, 2017-2028
- Figure 10. By Region - Global Active Rollover Protection Revenue Market Share, 2017-2028
- Figure 11. By Country - North America Active Rollover Protection Revenue Market Share, 2017-2028
- Figure 12. US Active Rollover Protection Revenue, (US\$, Mn), 2017-2028
- Figure 13. Canada Active Rollover Protection Revenue, (US\$, Mn), 2017-2028
- Figure 14. Mexico Active Rollover Protection Revenue, (US\$, Mn), 2017-2028
- Figure 15. By Country - Europe Active Rollover Protection Revenue Market Share, 2017-2028
- Figure 16. Germany Active Rollover Protection Revenue, (US\$, Mn), 2017-2028
- Figure 17. France Active Rollover Protection Revenue, (US\$, Mn), 2017-2028
- Figure 18. U.K. Active Rollover Protection Revenue, (US\$, Mn), 2017-2028
- Figure 19. Italy Active Rollover Protection Revenue, (US\$, Mn), 2017-2028
- Figure 20. Russia Active Rollover Protection Revenue, (US\$, Mn), 2017-2028
- Figure 21. Nordic Countries Active Rollover Protection Revenue, (US\$, Mn), 2017-2028
- Figure 22. Benelux Active Rollover Protection Revenue, (US\$, Mn), 2017-2028
- Figure 23. By Region - Asia Active Rollover Protection Revenue Market Share, 2017-2028
- Figure 24. China Active Rollover Protection Revenue, (US\$, Mn), 2017-2028
- Figure 25. Japan Active Rollover Protection Revenue, (US\$, Mn), 2017-2028
- Figure 26. South Korea Active Rollover Protection Revenue, (US\$, Mn), 2017-2028
- Figure 27. Southeast Asia Active Rollover Protection Revenue, (US\$, Mn), 2017-2028
- Figure 28. India Active Rollover Protection Revenue, (US\$, Mn), 2017-2028

Figure 29. By Country - South America Active Rollover Protection Revenue Market Share, 2017-2028

Figure 30. Brazil Active Rollover Protection Revenue, (US\$, Mn), 2017-2028

Figure 31. Argentina Active Rollover Protection Revenue, (US\$, Mn), 2017-2028

Figure 32. By Country - Middle East & Africa Active Rollover Protection Revenue Market Share, 2017-2028

Figure 33. Turkey Active Rollover Protection Revenue, (US\$, Mn), 2017-2028

Figure 34. Israel Active Rollover Protection Revenue, (US\$, Mn), 2017-2028

Figure 35. Saudi Arabia Active Rollover Protection Revenue, (US\$, Mn), 2017-2028

Figure 36. UAE Active Rollover Protection Revenue, (US\$, Mn), 2017-2028

Figure 37. Continental AG Active Rollover Protection Revenue Year Over Year Growth (US\$, Mn) & (2017-2022)

Figure 38. Air-Rops Active Rollover Protection Revenue Year Over Year Growth (US\$, Mn) & (2017-2022)

Figure 39. Ford Active Rollover Protection Revenue Year Over Year Growth (US\$, Mn) & (2017-2022)

Figure 40. CTi Sensors Active Rollover Protection Revenue Year Over Year Growth (US\$, Mn) & (2017-2022)

Figure 41. Volkswagen Active Rollover Protection Revenue Year Over Year Growth (US\$, Mn) & (2017-2022)

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