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Global Aircraft Braking System Market Size Study, by Component (Accumulator, Actuators, Brake Discs, Brake Housing, Electronics, Valves, Wheels), Brakes Type (Boosted Brake, Independent Brake, Power Brake), Deployment (Aftermarket, OEM), End-user (Commercial, Military), Aircraft Type (Fixed Wing, Rotary Wing, Unmanned Aerial Vehicles), and Regional Forecasts 2022-2032

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Abstracts

Global Aircraft Braking System Market is valued approximately at USD 12.02 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 6.91% over the forecast period 2024-2032. The aircraft braking system plays a pivotal role in ensuring the safety and performance of aircraft during critical operations such as landing, takeoff, and taxiing. These systems are integral for securely decelerating and stopping an aircraft and maintaining its position during ground operations. The increasing global air traffic, coupled with advancements in brake technology and stringent safety regulations imposed by aviation authorities, has significantly expanded the usage of aircraft braking systems. Additionally, the rise in military budgets and the development of new aircraft models are key contributors to the market's growth. However, the high cost associated with advanced material systems and stringent certification standards impede the widespread adoption of aircraft braking systems. The dependence on a limited number of suppliers for specialized components further complicates the market dynamics. Despite these challenges, the adoption of new materials such as carbon composites offers substantial opportunities for innovation within the aircraft braking systems market. The expansion of the global aircraft fleet and the necessity to modernize aging aircraft with more efficient braking systems present considerable commercial prospects.

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The market is segmented based on component, brakes type, deployment, end-user, and aircraft type. Components such as accumulators, actuators, brake discs, and electronics are essential for the functionality and efficiency of braking systems. The preference for advanced electronic systems, including control units and anti-skid systems, enhances the operational reliability and safety of modern aircraft. Brakes types are categorized into boosted brakes, independent brakes, and power brakes, with power brakes being the most preferred in large aircraft fleets due to their superior performance and safety features.

Deployment channels include aftermarket and OEM, with the aftermarket channel catering to maintenance, repair, and overhaul (MRO) needs throughout an aircraft's operational lifecycle. The end-user segment encompasses commercial and military sectors, with the commercial segment focusing on efficiency and safety for high-frequency operations, while the military segment emphasizes durability and compatibility with carrier-based operations. Aircraft types are classified into fixed-wing, rotary-wing, and unmanned aerial vehicles, each with specific braking system requirements tailored to their operational needs.

The key regions considered for the global aircraft braking system market study include North America, Europe, Asia Pacific, Latin America, and Rest of the World. North America is a dominating market due to its major aerospace corporations and significant investments in new aircraft fleets. Also, the region's stringent safety regulations and advanced aerospace sector, represent a substantial share of the market. Whereas, the Asia Pacific region is experiencing rapid growth in the market leading to increased demand for advanced braking systems. The expanding commercial airline industry and government initiatives for indigenous aircraft production, as well as fleet expansions and modernization programs, are contributing to the regional market growth over the forecast period.

Major market players included in this report are:

Airbus SE
Honeywell International Inc.
Safran S.A.
Collins Aerospace by RTX Corporation
Meggitt PLC
Eaton Corporation PLC
Moog Inc.
Liebherr-International Deutschland GmbH
Lufthansa Technik AG
Textron Inc.
Leonardo S.p.A.
AMETEK.Inc.

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Kaman Corporation
Beringer Aero
Northrop Grumman Corporation
The detailed segments and sub-segment of the market are explained below:
By Component:
• Accumulator
• Actuators
• Brake Discs
• Brake Housing
• Electronics
• Valves
• Wheels
By Brakes Type:
• Boosted Brake
• Independent Brake
• Power Brake
By Deployment:
• Aftermarket
• OEM
By End-user:
• Commercial
• Military
By Aircraft Type:
• Fixed Wing
• Rotary Wing
• Unmanned Aerial Vehicles
By Region:
North America
• U.S.
• Canada
Europe
• UK
• Germany
• France
• Spain
• Italy
• ROE
Asia Pacific
• China

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• India
• Japan
• Australia
• South Korea
• RoAPAC
Latin America
• Brazil
• Mexico
Middle East & Africa
• Saudi Arabia
• South Africa
• RoMEA
Years considered for the study are as follows:
• Historical year – 2022
• Base year – 2023
• Forecast period – 2024 to 2032
Key Takeaways:
• Market Estimates & Forecast for 10 years from 2022 to 2032.
• Annualized revenues and regional level analysis for each market segment.
• Detailed analysis of geographical landscape with Country level analysis of major regions.
• Competitive landscape with information on major players in the market.
• Analysis of key business strategies and recommendations on future market approach.
• Analysis of competitive structure of the market.
• Demand side and supply side analysis of the market.

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