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The replacement segment attained the highest market share in 2022 in the aircraft brake system industry due to the fact that many commercial aircraft in service are aging and require regular maintenance, repair, and overhaul (MRO) activities. As aircraft age, their brake systems also wear out and require replacement to ensure continued safe operation. The need for replacement brake systems is particularly significant for older aircraft models, which constitute a substantial portion of the global fleet. Furthermore, commercial aircraft are typically in operation for extended periods each day, leading to frequent wear and tear on brake systems. The high utilization rates of commercial aircraft result in more frequent replacements of brake components and systems due to normal wear and fatigue.

Based on actuation, the power brake segment contributed to the highest [Aircraft Brake System Market share](#) in 2020, attributing to more than two-fifths of the total market share, and is anticipated to dominate the market during the forecast period. The same segment is expected to manifest the fastest CAGR of 5.7% from 2021 to 2030. The report also covers segments such as boosted brake and independent brake.

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Based on region, Asia-Pacific, followed by North America, contributed to the highest share in 2020, holding around one-third of the total share, and is anticipated to maintain dominance throughout the forecast period. The global aircraft brake system market share across Asia-Pacific is anticipated to exhibit the fastest CAGR of 6.5% during the forecast period.

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Fixed Wing segment attained the highest market share in 2022 in the [aircraft brake system market forecast](#). This is attributed to the fact that fixed-wing aircraft, particularly commercial airliners, constitute the majority of the aircraft fleet worldwide. These aircraft operate on scheduled routes, carry large numbers of passengers and cargo, and have high-frequency flight schedules. As a result, they have a significant demand for advanced and reliable brake systems. Moreover, fixed-wing aircraft, especially commercial airliners, operate in diverse environments

and under various conditions, including short-haul, long-haul, high-altitude, and adverse weather conditions. As a result, they require sophisticated and high-performance brake systems capable of meeting stringent safety standards and performance requirements. This demand for advanced brake technology consolidates the market share of the fixed-wing segment.

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On the basis of aircraft type, the fixed wing segment is anticipated to exhibit significant growth in the near future.

Depending on actuation, the power brake segment is anticipated to dominate the market.

By distribution, the replacement segment is anticipated to exhibit significant growth in future.

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