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Asia Pacific Airport Runway FOD Detection Systems Market Forecast to 2031 - Regional Analysis - by Component (Hardware and Services) and End Use (Military Airport and Civil Airport)

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Abstracts

The Asia Pacific airport runway FOD detection systems market was valued at US$ 49.43 million in 2023 and is expected to reach US$ 91.05 million by 2031; it is estimated to register a CAGR of 7.9% from 2023 to 2031.

Rising Popularity of Smart Airports Boosts Asia Pacific Airport Runway FOD Detection Systems Market

The increasing inclination of government authorities toward smart airports boosts the demand for the implementation of smart systems on airport premises. Governments of developed countries such as the US, the UK, and China are capitalizing on smart airport technologies, including communication and network systems, smart sensors, cameras, RFID tags, and wearables, owing to increasing preference for real-time information and mounting demand for advanced connectivity technologies in airport operations. For instance, in 2017, the Civil Aviation Authority of Singapore (CAAS) and NATS Limited implemented the smart digital tower in Changi Airport, which continues to enhance surveillance and communication capabilities.

The development of new airports and expansion of existing airports in countries such as the UK, the UAE, India, and Hong Kong is also growing. In August 2020, Gammon Construction Limited, a construction and engineering contractor based in Hong Kong, was awarded a four-year contract amounting to US$ 1.7 billion by the Hong Kong Airport to expand Terminal 2 at Chek Lap Kok Airport. Similarly, KL International Airport (KLIA) constantly focused on advancing its runway safety with the second phase of the

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trial for the high-precision Foreign Object Debris Detection System (FODDS) in 2021. The first phase was initiated in 2019 with two towers, followed by the complete installation of the remaining nine towers with the same high-precision radars. The installation of the new system is a multilateral collaboration between Hitachi Kokusai Electric Co., Ltd. (HiKE); Malaysia Airports; and Universiti Teknologi Malaysia (UTM).

The Singapore Changi Airport has integrated advanced technologies such as data analytics, sensors, and artificial intelligence to improve the customer experience while enhancing operational efficiency. Thus, the growing focus on smart airports is anticipated to create lucrative opportunities for the growth of the airport runway FOD detection systems market during the forecast period.

Asia Pacific Airport Runway FOD Detection Systems Market Overview

The aviation industry plays an important role in facilitating global connectivity and economic development. The demand for efficient and modern airport facilities has been on the rise across the globe. Asia Pacific accounted for the largest airport runway FOD detection systems market share in 2023, owing to a rise in investment toward the expansion and modernization of airport facilities in the region. In addition, Asia Pacific stands as a dynamic hub for airport infrastructure development, driven by the region's robust economic growth and a surge in air travel. The governments of China and India are involved in massive investments in new airport construction and expansion projects. In addition, China is deploying runway FOD detection systems at their runways to improve the safety of both passengers and airlines. Beijing Daxing International Airport and Beijing Capital International Airport have already deployed FOD detection systems to enhance runway safety by monitoring and detecting debris continuously. These initiatives aim to maintain passenger safety, which is expected to support the market growth in the coming years.

Asia Pacific Airport Runway FOD Detection Systems Market Revenue and Forecast to 2031 (US$ Million)

Asia Pacific Airport Runway FOD Detection Systems Market Segmentation

The Asia Pacific airport runway FOD detection systems market is categorized into component, end use, and country.

Based on component, the Asia Pacific airport runway FOD detection systems market is bifurcated into hardware and services. The hardware segment held a larger Asia Pacific

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airport runway FOD detection systems market share in 2023.

In terms of end use, the Asia Pacific airport runway FOD detection systems market is categorized into military airport and civil airport. The civil airport segment held a larger Asia Pacific airport runway FOD detection systems market share in 2023.

By country, the Asia Pacific airport runway FOD detection systems market is segmented into Australia, China, Japan, India, South Korea, and the Rest of Asia Pacific. China dominated the Asia Pacific airport runway FOD detection systems market share in 2023.

Moog Inc; Rheinmetall AG; QinetiQ Group Plc; Thales SA; Varec, Inc.; Smiths Detection Group Ltd. (Smiths Group plc); Infologic Pte Ltd.; Skylarklabs, Inc.; and Hitachi Ltd are some of the leading companies operating in Asia Pacific airport runway FOD detection systems market.

Reason to buy

Save and reduce time carrying out entry-level research by identifying the growth, size, leading players, and segments in the Asia Pacific airport runway FOD detection systems market.

Highlights key business priorities in order to assist companies to realign their business strategies.

The key findings and recommendations highlight crucial progressive industry trends in the Asia Pacific airport runway FOD detection systems market, thereby allowing players across the value chain to develop effective long-term strategies.

Develop/modify business expansion plans by using substantial growth offering developed and emerging markets.

Scrutinize in-depth Asia Pacific market trends and outlook coupled with the factors driving the Asia Pacific airport runway FOD detection systems market, as well as those hindering it.

Enhance the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing, and distribution.

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The List of Companies - Asia Pacific Airport Runway FOD Detection Systems Market

Moog Inc

Rheinmetall AG

QinetiQ Group Plc

Thales SA

Varec, Inc.

Smiths Detection Group Ltd. (Smiths Group plc)

Infologic Pte Ltd.

Skylarklabs, Inc.

Hitachi Ltd

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