

# Global Aircraft Exterior Surface Inspection Robot Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Aircraft Exterior Surface Inspection Robot market size was valued at US\$ 37.04 million in 2025 and is forecast to a readjusted size of US\$ 100 million by 2032 with a CAGR of 14.2% during review period.

Aircraft exterior surface inspection robots are intelligent inspection equipment used for automated defect detection on the fuselage, wings, tail section, doors, nacelles and external skin areas of aircraft. The research scope focuses on robotic systems that can perform autonomous movement, route planning, image acquisition, three dimensional measurement, defect recognition and inspection report generation. Major product forms include drone based aircraft exterior inspection robots, wall climbing aircraft surface inspection robots, adhesion based close range inspection robots, ground control stations, AI recognition software and cloud based inspection databases. Core technologies include visual navigation, laser or structured light measurement, high resolution imaging, thermal imaging, surface damage recognition algorithms, autonomous flight control, robotic adhesion control and aviation maintenance data management. Key specifications include inspection accuracy, positioning accuracy, inspection time per aircraft, image resolution, endurance, anti interference capability, defect recognition accuracy and report generation efficiency. The main applications are airline maintenance, aviation MRO, aircraft manufacturing delivery inspection, post lightning strike inspection, lease return inspection and business jet maintenance. In 2025, the global industry average price of aircraft exterior surface inspection robots was about USD 450,000 per unit, and the industry average gross margin was about 45%.

Aircraft exterior surface inspection robots are specialized inspection equipment within

the digital transformation of aviation maintenance. Their core value is not to fully replace manual inspection, but to convert repetitive, time consuming and inconsistently recorded visual inspection tasks into traceable, measurable and reviewable digital workflows. The upstream segment includes industrial drone platforms, robotic bodies, high resolution cameras, laser measurement modules, sensors, flight control systems and AI algorithm components. The midstream segment consists of aircraft dedicated inspection robots, drone based inspection systems, climbing robots and integrated software platforms. The downstream market is mainly composed of airlines, aviation MRO providers, aircraft manufacturers, business jet operators and military aircraft maintenance units. The competitive landscape remains at an early and relatively concentrated stage. Only a limited number of companies have aircraft specific products, aviation maintenance scenario validation and system level delivery capabilities. General drone manufacturers, standard NDT equipment suppliers and pure MRO service providers should not be treated as equivalent manufacturers under a strict product scope. Drone based inspection systems currently dominate the product structure, while climbing and adhesion based robots serve as complementary routes for close range inspection and special surface access. Competition is shifting from simple image capture toward autonomous route planning, defect recognition, three dimensional measurement, standardized maintenance reporting and integration with aviation maintenance data systems. The industry is supported by aviation safety requirements, maintenance traceability, global fleet recovery, airline cost control and labor shortages in MRO operations. These factors will encourage broader adoption of automated inspection tools, especially in high frequency maintenance tasks, lightning strike checks, lease return inspections and large aircraft exterior inspections. Growth is expected to come from gradual replication across major airports, MRO bases, mainstream aircraft models and high value inspection scenarios rather than immediate mass replacement of manual inspection. The outlook is positive, but near term expansion will remain constrained by regulatory acceptance, inspection liability, customer procurement cycles and the difficulty of building closed loop maintenance data workflows.

This report is a detailed and comprehensive analysis for global Aircraft Exterior Surface Inspection Robot market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

#### Key Features:

Global Aircraft Exterior Surface Inspection Robot market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Aircraft Exterior Surface Inspection Robot market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Aircraft Exterior Surface Inspection Robot market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Aircraft Exterior Surface Inspection Robot market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Aircraft Exterior Surface Inspection Robot

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Aircraft Exterior Surface Inspection Robot market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Donecle, Mainblades, PABLO AIR, Invert Robotics Group Limited, Airbus SE, ST Engineering Aerospace Ltd., Lufthansa Technik AG, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Aircraft Exterior Surface Inspection Robot market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

#### Market segment by Type

- Drone-based Inspection Robot
- Crawling Inspection Robot
- Ground-based Mobile Inspection Robot
- Hybrid Inspection Robot System
- Others

#### Market segment by Inspection Technology

- Visual Imaging Inspection
- 3D Measurement Inspection
- Thermal Imaging Inspection
- NDT-assisted Robotic Inspection
- Multi-sensor Fusion Inspection
- Others

#### Market segment by Sales and Delivery Model

- Equipment Sales

System Sales with Software License

Inspection Service Model

Customized Project Delivery

Others

#### Market segment by Application

Commercial Airlines

Aviation MRO Industry

Aircraft Manufacturing Industry

Military Aviation Maintenance

Others

#### Major players covered

Donecle

Mainblades

PABLO AIR

Invert Robotics Group Limited

Airbus SE

ST Engineering Aerospace Ltd.

Lufthansa Technik AG

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Aircraft Exterior Surface Inspection Robot product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Aircraft Exterior Surface Inspection Robot, with price, sales quantity, revenue, and global market share of Aircraft Exterior Surface Inspection Robot from 2021 to 2026.

Chapter 3, the Aircraft Exterior Surface Inspection Robot competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Aircraft Exterior Surface Inspection Robot breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Aircraft Exterior Surface Inspection Robot market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Aircraft Exterior Surface Inspection Robot.

Chapter 14 and 15, to describe Aircraft Exterior Surface Inspection Robot sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

#### 1.1 Product Overview and Scope

#### 1.2 Market Estimation Caveats and Base Year

#### 1.3 Market Analysis by Type

##### 1.3.1 Overview: Global Aircraft Exterior Surface Inspection Robot Consumption Value by Type: 2021 Versus 2025 Versus 2032

##### 1.3.2 Drone-based Inspection Robot

##### 1.3.3 Crawling Inspection Robot

##### 1.3.4 Ground-based Mobile Inspection Robot

##### 1.3.5 Hybrid Inspection Robot System

##### 1.3.6 Others

#### 1.4 Market Analysis by Inspection Technology

##### 1.4.1 Overview: Global Aircraft Exterior Surface Inspection Robot Consumption Value by Inspection Technology: 2021 Versus 2025 Versus 2032

##### 1.4.2 Visual Imaging Inspection

##### 1.4.3 3D Measurement Inspection

##### 1.4.4 Thermal Imaging Inspection

##### 1.4.5 NDT-assisted Robotic Inspection

##### 1.4.6 Multi-sensor Fusion Inspection

##### 1.4.7 Others

#### 1.5 Market Analysis by Sales and Delivery Model

##### 1.5.1 Overview: Global Aircraft Exterior Surface Inspection Robot Consumption Value by Sales and Delivery Model: 2021 Versus 2025 Versus 2032

##### 1.5.2 Equipment Sales

##### 1.5.3 System Sales with Software License

##### 1.5.4 Inspection Service Model

##### 1.5.5 Customized Project Delivery

##### 1.5.6 Others

#### 1.6 Market Analysis by Application

##### 1.6.1 Overview: Global Aircraft Exterior Surface Inspection Robot Consumption Value by Application: 2021 Versus 2025 Versus 2032

##### 1.6.2 Commercial Airlines

##### 1.6.3 Aviation MRO Industry

##### 1.6.4 Aircraft Manufacturing Industry

##### 1.6.5 Military Aviation Maintenance

##### 1.6.6 Others

## 1.7 Global Aircraft Exterior Surface Inspection Robot Market Size & Forecast

1.7.1 Global Aircraft Exterior Surface Inspection Robot Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Aircraft Exterior Surface Inspection Robot Sales Quantity (2021-2032)

1.7.3 Global Aircraft Exterior Surface Inspection Robot Average Price (2021-2032)

## 2 MANUFACTURERS PROFILES

### 2.1 Donecle

2.1.1 Donecle Details

2.1.2 Donecle Major Business

2.1.3 Donecle Aircraft Exterior Surface Inspection Robot Product and Services

2.1.4 Donecle Aircraft Exterior Surface Inspection Robot Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Donecle Recent Developments/Updates

### 2.2 Mainblades

2.2.1 Mainblades Details

2.2.2 Mainblades Major Business

2.2.3 Mainblades Aircraft Exterior Surface Inspection Robot Product and Services

2.2.4 Mainblades Aircraft Exterior Surface Inspection Robot Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Mainblades Recent Developments/Updates

### 2.3 PABLO AIR

2.3.1 PABLO AIR Details

2.3.2 PABLO AIR Major Business

2.3.3 PABLO AIR Aircraft Exterior Surface Inspection Robot Product and Services

2.3.4 PABLO AIR Aircraft Exterior Surface Inspection Robot Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 PABLO AIR Recent Developments/Updates

### 2.4 Invert Robotics Group Limited

2.4.1 Invert Robotics Group Limited Details

2.4.2 Invert Robotics Group Limited Major Business

2.4.3 Invert Robotics Group Limited Aircraft Exterior Surface Inspection Robot Product and Services

2.4.4 Invert Robotics Group Limited Aircraft Exterior Surface Inspection Robot Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Invert Robotics Group Limited Recent Developments/Updates

### 2.5 Airbus SE

2.5.1 Airbus SE Details

- 2.5.2 Airbus SE Major Business
- 2.5.3 Airbus SE Aircraft Exterior Surface Inspection Robot Product and Services
- 2.5.4 Airbus SE Aircraft Exterior Surface Inspection Robot Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.5.5 Airbus SE Recent Developments/Updates
- 2.6 ST Engineering Aerospace Ltd.
  - 2.6.1 ST Engineering Aerospace Ltd. Details
  - 2.6.2 ST Engineering Aerospace Ltd. Major Business
  - 2.6.3 ST Engineering Aerospace Ltd. Aircraft Exterior Surface Inspection Robot Product and Services
  - 2.6.4 ST Engineering Aerospace Ltd. Aircraft Exterior Surface Inspection Robot Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.6.5 ST Engineering Aerospace Ltd. Recent Developments/Updates
- 2.7 Lufthansa Technik AG
  - 2.7.1 Lufthansa Technik AG Details
  - 2.7.2 Lufthansa Technik AG Major Business
  - 2.7.3 Lufthansa Technik AG Aircraft Exterior Surface Inspection Robot Product and Services
  - 2.7.4 Lufthansa Technik AG Aircraft Exterior Surface Inspection Robot Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.7.5 Lufthansa Technik AG Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: AIRCRAFT EXTERIOR SURFACE INSPECTION ROBOT BY MANUFACTURER**

- 3.1 Global Aircraft Exterior Surface Inspection Robot Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Aircraft Exterior Surface Inspection Robot Revenue by Manufacturer (2021-2026)
- 3.3 Global Aircraft Exterior Surface Inspection Robot Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
  - 3.4.1 Producer Shipments of Aircraft Exterior Surface Inspection Robot by Manufacturer Revenue (\$MM) and Market Share (%): 2025
  - 3.4.2 Top 3 Aircraft Exterior Surface Inspection Robot Manufacturer Market Share in 2025
  - 3.4.3 Top 6 Aircraft Exterior Surface Inspection Robot Manufacturer Market Share in 2025
- 3.5 Aircraft Exterior Surface Inspection Robot Market: Overall Company Footprint

## Analysis

3.5.1 Aircraft Exterior Surface Inspection Robot Market: Region Footprint

3.5.2 Aircraft Exterior Surface Inspection Robot Market: Company Product Type Footprint

3.5.3 Aircraft Exterior Surface Inspection Robot Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

## 4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Aircraft Exterior Surface Inspection Robot Market Size by Region

4.1.1 Global Aircraft Exterior Surface Inspection Robot Sales Quantity by Region (2021-2032)

4.1.2 Global Aircraft Exterior Surface Inspection Robot Consumption Value by Region (2021-2032)

4.1.3 Global Aircraft Exterior Surface Inspection Robot Average Price by Region (2021-2032)

4.2 North America Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032)

4.3 Europe Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032)

4.4 Asia-Pacific Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032)

4.5 South America Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032)

4.6 Middle East & Africa Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032)

## 5 MARKET SEGMENT BY TYPE

5.1 Global Aircraft Exterior Surface Inspection Robot Sales Quantity by Type (2021-2032)

5.2 Global Aircraft Exterior Surface Inspection Robot Consumption Value by Type (2021-2032)

5.3 Global Aircraft Exterior Surface Inspection Robot Average Price by Type (2021-2032)

## 6 MARKET SEGMENT BY APPLICATION

6.1 Global Aircraft Exterior Surface Inspection Robot Sales Quantity by Application (2021-2032)

6.2 Global Aircraft Exterior Surface Inspection Robot Consumption Value by Application (2021-2032)

6.3 Global Aircraft Exterior Surface Inspection Robot Average Price by Application (2021-2032)

## **7 NORTH AMERICA**

7.1 North America Aircraft Exterior Surface Inspection Robot Sales Quantity by Type (2021-2032)

7.2 North America Aircraft Exterior Surface Inspection Robot Sales Quantity by Application (2021-2032)

7.3 North America Aircraft Exterior Surface Inspection Robot Market Size by Country

7.3.1 North America Aircraft Exterior Surface Inspection Robot Sales Quantity by Country (2021-2032)

7.3.2 North America Aircraft Exterior Surface Inspection Robot Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

## **8 EUROPE**

8.1 Europe Aircraft Exterior Surface Inspection Robot Sales Quantity by Type (2021-2032)

8.2 Europe Aircraft Exterior Surface Inspection Robot Sales Quantity by Application (2021-2032)

8.3 Europe Aircraft Exterior Surface Inspection Robot Market Size by Country

8.3.1 Europe Aircraft Exterior Surface Inspection Robot Sales Quantity by Country (2021-2032)

8.3.2 Europe Aircraft Exterior Surface Inspection Robot Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific Aircraft Exterior Surface Inspection Robot Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Aircraft Exterior Surface Inspection Robot Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Aircraft Exterior Surface Inspection Robot Market Size by Region

9.3.1 Asia-Pacific Aircraft Exterior Surface Inspection Robot Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Aircraft Exterior Surface Inspection Robot Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

## **10 SOUTH AMERICA**

10.1 South America Aircraft Exterior Surface Inspection Robot Sales Quantity by Type (2021-2032)

10.2 South America Aircraft Exterior Surface Inspection Robot Sales Quantity by Application (2021-2032)

10.3 South America Aircraft Exterior Surface Inspection Robot Market Size by Country

10.3.1 South America Aircraft Exterior Surface Inspection Robot Sales Quantity by Country (2021-2032)

10.3.2 South America Aircraft Exterior Surface Inspection Robot Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

## **11 MIDDLE EAST & AFRICA**

11.1 Middle East & Africa Aircraft Exterior Surface Inspection Robot Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Aircraft Exterior Surface Inspection Robot Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Aircraft Exterior Surface Inspection Robot Market Size by

## Country

11.3.1 Middle East & Africa Aircraft Exterior Surface Inspection Robot Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Aircraft Exterior Surface Inspection Robot Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

## 12 MARKET DYNAMICS

12.1 Aircraft Exterior Surface Inspection Robot Market Drivers

12.2 Aircraft Exterior Surface Inspection Robot Market Restraints

12.3 Aircraft Exterior Surface Inspection Robot Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

## 13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Aircraft Exterior Surface Inspection Robot and Key Manufacturers

13.2 Manufacturing Costs Percentage of Aircraft Exterior Surface Inspection Robot

13.3 Aircraft Exterior Surface Inspection Robot Production Process

13.4 Industry Value Chain Analysis

## 14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Aircraft Exterior Surface Inspection Robot Typical Distributors

14.3 Aircraft Exterior Surface Inspection Robot Typical Customers

## 15 RESEARCH FINDINGS AND CONCLUSION

## **16 APPENDIX**

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Aircraft Exterior Surface Inspection Robot Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Aircraft Exterior Surface Inspection Robot Consumption Value by Inspection Technology, (USD Million), 2021 & 2025 & 2032

Table 3. Global Aircraft Exterior Surface Inspection Robot Consumption Value by Sales and Delivery Model, (USD Million), 2021 & 2025 & 2032

Table 4. Global Aircraft Exterior Surface Inspection Robot Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Donecle Basic Information, Manufacturing Base and Competitors

Table 6. Donecle Major Business

Table 7. Donecle Aircraft Exterior Surface Inspection Robot Product and Services

Table 8. Donecle Aircraft Exterior Surface Inspection Robot Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Donecle Recent Developments/Updates

Table 10. Mainblades Basic Information, Manufacturing Base and Competitors

Table 11. Mainblades Major Business

Table 12. Mainblades Aircraft Exterior Surface Inspection Robot Product and Services

Table 13. Mainblades Aircraft Exterior Surface Inspection Robot Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Mainblades Recent Developments/Updates

Table 15. PABLO AIR Basic Information, Manufacturing Base and Competitors

Table 16. PABLO AIR Major Business

Table 17. PABLO AIR Aircraft Exterior Surface Inspection Robot Product and Services

Table 18. PABLO AIR Aircraft Exterior Surface Inspection Robot Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. PABLO AIR Recent Developments/Updates

Table 20. Invert Robotics Group Limited Basic Information, Manufacturing Base and Competitors

Table 21. Invert Robotics Group Limited Major Business

Table 22. Invert Robotics Group Limited Aircraft Exterior Surface Inspection Robot Product and Services

Table 23. Invert Robotics Group Limited Aircraft Exterior Surface Inspection Robot

Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Invert Robotics Group Limited Recent Developments/Updates

Table 25. Airbus SE Basic Information, Manufacturing Base and Competitors

Table 26. Airbus SE Major Business

Table 27. Airbus SE Aircraft Exterior Surface Inspection Robot Product and Services

Table 28. Airbus SE Aircraft Exterior Surface Inspection Robot Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Airbus SE Recent Developments/Updates

Table 30. ST Engineering Aerospace Ltd. Basic Information, Manufacturing Base and Competitors

Table 31. ST Engineering Aerospace Ltd. Major Business

Table 32. ST Engineering Aerospace Ltd. Aircraft Exterior Surface Inspection Robot Product and Services

Table 33. ST Engineering Aerospace Ltd. Aircraft Exterior Surface Inspection Robot Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. ST Engineering Aerospace Ltd. Recent Developments/Updates

Table 35. Lufthansa Technik AG Basic Information, Manufacturing Base and Competitors

Table 36. Lufthansa Technik AG Major Business

Table 37. Lufthansa Technik AG Aircraft Exterior Surface Inspection Robot Product and Services

Table 38. Lufthansa Technik AG Aircraft Exterior Surface Inspection Robot Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Lufthansa Technik AG Recent Developments/Updates

Table 40. Global Aircraft Exterior Surface Inspection Robot Sales Quantity by Manufacturer (2021-2026) & (Units)

Table 41. Global Aircraft Exterior Surface Inspection Robot Revenue by Manufacturer (2021-2026) & (USD Million)

Table 42. Global Aircraft Exterior Surface Inspection Robot Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 43. Market Position of Manufacturers in Aircraft Exterior Surface Inspection Robot, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 44. Head Office and Aircraft Exterior Surface Inspection Robot Production Site of Key Manufacturer

Table 45. Aircraft Exterior Surface Inspection Robot Market: Company Product Type

## Footprint

Table 46. Aircraft Exterior Surface Inspection Robot Market: Company Product Application Footprint

Table 47. Aircraft Exterior Surface Inspection Robot New Market Entrants and Barriers to Market Entry

Table 48. Aircraft Exterior Surface Inspection Robot Mergers, Acquisition, Agreements, and Collaborations

Table 49. Global Aircraft Exterior Surface Inspection Robot Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 50. Global Aircraft Exterior Surface Inspection Robot Sales Quantity by Region (2021-2026) & (Units)

Table 51. Global Aircraft Exterior Surface Inspection Robot Sales Quantity by Region (2027-2032) & (Units)

Table 52. Global Aircraft Exterior Surface Inspection Robot Consumption Value by Region (2021-2026) & (USD Million)

Table 53. Global Aircraft Exterior Surface Inspection Robot Consumption Value by Region (2027-2032) & (USD Million)

Table 54. Global Aircraft Exterior Surface Inspection Robot Average Price by Region (2021-2026) & (K US\$/Unit)

Table 55. Global Aircraft Exterior Surface Inspection Robot Average Price by Region (2027-2032) & (K US\$/Unit)

Table 56. Global Aircraft Exterior Surface Inspection Robot Sales Quantity by Type (2021-2026) & (Units)

Table 57. Global Aircraft Exterior Surface Inspection Robot Sales Quantity by Type (2027-2032) & (Units)

Table 58. Global Aircraft Exterior Surface Inspection Robot Consumption Value by Type (2021-2026) & (USD Million)

Table 59. Global Aircraft Exterior Surface Inspection Robot Consumption Value by Type (2027-2032) & (USD Million)

Table 60. Global Aircraft Exterior Surface Inspection Robot Average Price by Type (2021-2026) & (K US\$/Unit)

Table 61. Global Aircraft Exterior Surface Inspection Robot Average Price by Type (2027-2032) & (K US\$/Unit)

Table 62. Global Aircraft Exterior Surface Inspection Robot Sales Quantity by Application (2021-2026) & (Units)

Table 63. Global Aircraft Exterior Surface Inspection Robot Sales Quantity by Application (2027-2032) & (Units)

Table 64. Global Aircraft Exterior Surface Inspection Robot Consumption Value by Application (2021-2026) & (USD Million)

Table 65. Global Aircraft Exterior Surface Inspection Robot Consumption Value by Application (2027-2032) & (USD Million)

Table 66. Global Aircraft Exterior Surface Inspection Robot Average Price by Application (2021-2026) & (K US\$/Unit)

Table 67. Global Aircraft Exterior Surface Inspection Robot Average Price by Application (2027-2032) & (K US\$/Unit)

Table 68. North America Aircraft Exterior Surface Inspection Robot Sales Quantity by Type (2021-2026) & (Units)

Table 69. North America Aircraft Exterior Surface Inspection Robot Sales Quantity by Type (2027-2032) & (Units)

Table 70. North America Aircraft Exterior Surface Inspection Robot Sales Quantity by Application (2021-2026) & (Units)

Table 71. North America Aircraft Exterior Surface Inspection Robot Sales Quantity by Application (2027-2032) & (Units)

Table 72. North America Aircraft Exterior Surface Inspection Robot Sales Quantity by Country (2021-2026) & (Units)

Table 73. North America Aircraft Exterior Surface Inspection Robot Sales Quantity by Country (2027-2032) & (Units)

Table 74. North America Aircraft Exterior Surface Inspection Robot Consumption Value by Country (2021-2026) & (USD Million)

Table 75. North America Aircraft Exterior Surface Inspection Robot Consumption Value by Country (2027-2032) & (USD Million)

Table 76. Europe Aircraft Exterior Surface Inspection Robot Sales Quantity by Type (2021-2026) & (Units)

Table 77. Europe Aircraft Exterior Surface Inspection Robot Sales Quantity by Type (2027-2032) & (Units)

Table 78. Europe Aircraft Exterior Surface Inspection Robot Sales Quantity by Application (2021-2026) & (Units)

Table 79. Europe Aircraft Exterior Surface Inspection Robot Sales Quantity by Application (2027-2032) & (Units)

Table 80. Europe Aircraft Exterior Surface Inspection Robot Sales Quantity by Country (2021-2026) & (Units)

Table 81. Europe Aircraft Exterior Surface Inspection Robot Sales Quantity by Country (2027-2032) & (Units)

Table 82. Europe Aircraft Exterior Surface Inspection Robot Consumption Value by Country (2021-2026) & (USD Million)

Table 83. Europe Aircraft Exterior Surface Inspection Robot Consumption Value by Country (2027-2032) & (USD Million)

Table 84. Asia-Pacific Aircraft Exterior Surface Inspection Robot Sales Quantity by Type

(2021-2026) & (Units)

Table 85. Asia-Pacific Aircraft Exterior Surface Inspection Robot Sales Quantity by Type (2027-2032) & (Units)

Table 86. Asia-Pacific Aircraft Exterior Surface Inspection Robot Sales Quantity by Application (2021-2026) & (Units)

Table 87. Asia-Pacific Aircraft Exterior Surface Inspection Robot Sales Quantity by Application (2027-2032) & (Units)

Table 88. Asia-Pacific Aircraft Exterior Surface Inspection Robot Sales Quantity by Region (2021-2026) & (Units)

Table 89. Asia-Pacific Aircraft Exterior Surface Inspection Robot Sales Quantity by Region (2027-2032) & (Units)

Table 90. Asia-Pacific Aircraft Exterior Surface Inspection Robot Consumption Value by Region (2021-2026) & (USD Million)

Table 91. Asia-Pacific Aircraft Exterior Surface Inspection Robot Consumption Value by Region (2027-2032) & (USD Million)

Table 92. South America Aircraft Exterior Surface Inspection Robot Sales Quantity by Type (2021-2026) & (Units)

Table 93. South America Aircraft Exterior Surface Inspection Robot Sales Quantity by Type (2027-2032) & (Units)

Table 94. South America Aircraft Exterior Surface Inspection Robot Sales Quantity by Application (2021-2026) & (Units)

Table 95. South America Aircraft Exterior Surface Inspection Robot Sales Quantity by Application (2027-2032) & (Units)

Table 96. South America Aircraft Exterior Surface Inspection Robot Sales Quantity by Country (2021-2026) & (Units)

Table 97. South America Aircraft Exterior Surface Inspection Robot Sales Quantity by Country (2027-2032) & (Units)

Table 98. South America Aircraft Exterior Surface Inspection Robot Consumption Value by Country (2021-2026) & (USD Million)

Table 99. South America Aircraft Exterior Surface Inspection Robot Consumption Value by Country (2027-2032) & (USD Million)

Table 100. Middle East & Africa Aircraft Exterior Surface Inspection Robot Sales Quantity by Type (2021-2026) & (Units)

Table 101. Middle East & Africa Aircraft Exterior Surface Inspection Robot Sales Quantity by Type (2027-2032) & (Units)

Table 102. Middle East & Africa Aircraft Exterior Surface Inspection Robot Sales Quantity by Application (2021-2026) & (Units)

Table 103. Middle East & Africa Aircraft Exterior Surface Inspection Robot Sales Quantity by Application (2027-2032) & (Units)

Table 104. Middle East & Africa Aircraft Exterior Surface Inspection Robot Sales  
Quantity by Country (2021-2026) & (Units)

Table 105. Middle East & Africa Aircraft Exterior Surface Inspection Robot Sales  
Quantity by Country (2027-2032) & (Units)

Table 106. Middle East & Africa Aircraft Exterior Surface Inspection Robot Consumption  
Value by Country (2021-2026) & (USD Million)

Table 107. Middle East & Africa Aircraft Exterior Surface Inspection Robot Consumption  
Value by Country (2027-2032) & (USD Million)

Table 108. Aircraft Exterior Surface Inspection Robot Raw Material

Table 109. Key Manufacturers of Aircraft Exterior Surface Inspection Robot Raw  
Materials

Table 110. Aircraft Exterior Surface Inspection Robot Typical Distributors

Table 111. Aircraft Exterior Surface Inspection Robot Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Aircraft Exterior Surface Inspection Robot Picture

Figure 2. Global Aircraft Exterior Surface Inspection Robot Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Aircraft Exterior Surface Inspection Robot Revenue Market Share by Type in 2025

Figure 4. Drone-based Inspection Robot Examples

Figure 5. Crawling Inspection Robot Examples

Figure 6. Ground-based Mobile Inspection Robot Examples

Figure 7. Hybrid Inspection Robot System Examples

Figure 8. Others Examples

Figure 9. Global Aircraft Exterior Surface Inspection Robot Revenue by Inspection Technology, (USD Million), 2021 & 2025 & 2032

Figure 10. Global Aircraft Exterior Surface Inspection Robot Revenue Market Share by Inspection Technology in 2025

Figure 11. Visual Imaging Inspection Examples

Figure 12. 3D Measurement Inspection Examples

Figure 13. Thermal Imaging Inspection Examples

Figure 14. NDT-assisted Robotic Inspection Examples

Figure 15. Multi-sensor Fusion Inspection Examples

Figure 16. Others Examples

Figure 17. Global Aircraft Exterior Surface Inspection Robot Revenue by Sales and Delivery Model, (USD Million), 2021 & 2025 & 2032

Figure 18. Global Aircraft Exterior Surface Inspection Robot Revenue Market Share by Sales and Delivery Model in 2025

Figure 19. Equipment Sales Examples

Figure 20. System Sales with Software License Examples

Figure 21. Inspection Service Model Examples

Figure 22. Customized Project Delivery Examples

Figure 23. Others Examples

Figure 24. Global Aircraft Exterior Surface Inspection Robot Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 25. Global Aircraft Exterior Surface Inspection Robot Revenue Market Share by Application in 2025

Figure 26. Commercial Airlines Examples

Figure 27. Aviation MRO Industry Examples

Figure 28. Aircraft Manufacturing Industry Examples

Figure 29. Military Aviation Maintenance Examples

Figure 30. Others Examples

Figure 31. Global Aircraft Exterior Surface Inspection Robot Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 32. Global Aircraft Exterior Surface Inspection Robot Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 33. Global Aircraft Exterior Surface Inspection Robot Sales Quantity (2021-2032) & (Units)

Figure 34. Global Aircraft Exterior Surface Inspection Robot Price (2021-2032) & (K US\$/Unit)

Figure 35. Global Aircraft Exterior Surface Inspection Robot Sales Quantity Market Share by Manufacturer in 2025

Figure 36. Global Aircraft Exterior Surface Inspection Robot Revenue Market Share by Manufacturer in 2025

Figure 37. Producer Shipments of Aircraft Exterior Surface Inspection Robot by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 38. Top 3 Aircraft Exterior Surface Inspection Robot Manufacturer (Revenue) Market Share in 2025

Figure 39. Top 6 Aircraft Exterior Surface Inspection Robot Manufacturer (Revenue) Market Share in 2025

Figure 40. Global Aircraft Exterior Surface Inspection Robot Sales Quantity Market Share by Region (2021-2032)

Figure 41. Global Aircraft Exterior Surface Inspection Robot Consumption Value Market Share by Region (2021-2032)

Figure 42. North America Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032) & (USD Million)

Figure 43. Europe Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032) & (USD Million)

Figure 44. Asia-Pacific Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032) & (USD Million)

Figure 45. South America Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032) & (USD Million)

Figure 46. Middle East & Africa Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032) & (USD Million)

Figure 47. Global Aircraft Exterior Surface Inspection Robot Sales Quantity Market Share by Type (2021-2032)

Figure 48. Global Aircraft Exterior Surface Inspection Robot Consumption Value Market Share by Type (2021-2032)

Figure 49. Global Aircraft Exterior Surface Inspection Robot Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 50. Global Aircraft Exterior Surface Inspection Robot Sales Quantity Market Share by Application (2021-2032)

Figure 51. Global Aircraft Exterior Surface Inspection Robot Revenue Market Share by Application (2021-2032)

Figure 52. Global Aircraft Exterior Surface Inspection Robot Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 53. North America Aircraft Exterior Surface Inspection Robot Sales Quantity Market Share by Type (2021-2032)

Figure 54. North America Aircraft Exterior Surface Inspection Robot Sales Quantity Market Share by Application (2021-2032)

Figure 55. North America Aircraft Exterior Surface Inspection Robot Sales Quantity Market Share by Country (2021-2032)

Figure 56. North America Aircraft Exterior Surface Inspection Robot Consumption Value Market Share by Country (2021-2032)

Figure 57. United States Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032) & (USD Million)

Figure 58. Canada Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032) & (USD Million)

Figure 59. Mexico Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032) & (USD Million)

Figure 60. Europe Aircraft Exterior Surface Inspection Robot Sales Quantity Market Share by Type (2021-2032)

Figure 61. Europe Aircraft Exterior Surface Inspection Robot Sales Quantity Market Share by Application (2021-2032)

Figure 62. Europe Aircraft Exterior Surface Inspection Robot Sales Quantity Market Share by Country (2021-2032)

Figure 63. Europe Aircraft Exterior Surface Inspection Robot Consumption Value Market Share by Country (2021-2032)

Figure 64. Germany Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032) & (USD Million)

Figure 65. France Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032) & (USD Million)

Figure 66. United Kingdom Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032) & (USD Million)

Figure 67. Russia Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032) & (USD Million)

Figure 68. Italy Aircraft Exterior Surface Inspection Robot Consumption Value

(2021-2032) & (USD Million)

Figure 69. Asia-Pacific Aircraft Exterior Surface Inspection Robot Sales Quantity Market Share by Type (2021-2032)

Figure 70. Asia-Pacific Aircraft Exterior Surface Inspection Robot Sales Quantity Market Share by Application (2021-2032)

Figure 71. Asia-Pacific Aircraft Exterior Surface Inspection Robot Sales Quantity Market Share by Region (2021-2032)

Figure 72. Asia-Pacific Aircraft Exterior Surface Inspection Robot Consumption Value Market Share by Region (2021-2032)

Figure 73. China Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032) & (USD Million)

Figure 74. Japan Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032) & (USD Million)

Figure 75. South Korea Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032) & (USD Million)

Figure 76. India Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032) & (USD Million)

Figure 77. Southeast Asia Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032) & (USD Million)

Figure 78. Australia Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032) & (USD Million)

Figure 79. South America Aircraft Exterior Surface Inspection Robot Sales Quantity Market Share by Type (2021-2032)

Figure 80. South America Aircraft Exterior Surface Inspection Robot Sales Quantity Market Share by Application (2021-2032)

Figure 81. South America Aircraft Exterior Surface Inspection Robot Sales Quantity Market Share by Country (2021-2032)

Figure 82. South America Aircraft Exterior Surface Inspection Robot Consumption Value Market Share by Country (2021-2032)

Figure 83. Brazil Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032) & (USD Million)

Figure 84. Argentina Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032) & (USD Million)

Figure 85. Middle East & Africa Aircraft Exterior Surface Inspection Robot Sales Quantity Market Share by Type (2021-2032)

Figure 86. Middle East & Africa Aircraft Exterior Surface Inspection Robot Sales Quantity Market Share by Application (2021-2032)

Figure 87. Middle East & Africa Aircraft Exterior Surface Inspection Robot Sales Quantity Market Share by Country (2021-2032)

Figure 88. Middle East & Africa Aircraft Exterior Surface Inspection Robot Consumption Value Market Share by Country (2021-2032)

Figure 89. Turkey Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032) & (USD Million)

Figure 90. Egypt Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032) & (USD Million)

Figure 91. Saudi Arabia Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032) & (USD Million)

Figure 92. South Africa Aircraft Exterior Surface Inspection Robot Consumption Value (2021-2032) & (USD Million)

Figure 93. Aircraft Exterior Surface Inspection Robot Market Drivers

Figure 94. Aircraft Exterior Surface Inspection Robot Market Restraints

Figure 95. Aircraft Exterior Surface Inspection Robot Market Trends

Figure 96. Porters Five Forces Analysis

Figure 97. Manufacturing Cost Structure Analysis of Aircraft Exterior Surface Inspection Robot in 2025

Figure 98. Manufacturing Process Analysis of Aircraft Exterior Surface Inspection Robot

Figure 99. Aircraft Exterior Surface Inspection Robot Industrial Chain

Figure 100. Sales Channel: Direct to End-User vs Distributors

Figure 101. Direct Channel Pros & Cons

Figure 102. Indirect Channel Pros & Cons

Figure 103. Methodology

Figure 104. Research Process and Data Source

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