

Global eVTOL Rotor Ice Protection Systems Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global eVTOL Rotor Ice Protection Systems market size is expected to reach \$ 20.27 million by 2032, rising at a market growth of 35.0% CAGR during the forecast period (2026-2032).

eVTOL Rotor Ice Protection Systems are aircraft-level systems designed to prevent, control or remove ice accumulation on the lift rotors, tilt rotors, distributed lift propellers and cruise propellers of electric vertical take-off and landing aircraft. The systems use electrothermal heating, freezing-point-depressant fluids, electromechanical deformation or hybrid technologies to preserve blade aerodynamic performance, thrust balance and propulsion reliability in icing environments. A complete aircraft shipset typically integrates blade-mounted ice protection elements, power control and distribution equipment, rotating electrical interfaces, temperature or ice-detection sensors, system controllers, wiring and installation hardware. Product configurations range from fixed-cycle de-icing systems to closed-loop solutions that adjust heating or fluid delivery according to real-time blade conditions. The research focuses on systems supplied for new aircraft integration, certification and flight-test aircraft, operational retrofits and mission-specific eVTOL platforms used in passenger transport, regional mobility, cargo logistics, medical delivery, defense, public safety and industrial inspection.

Key Findings

Global shipments were approximately 21 sets in 2025 and are projected at about 31 sets in 2026

The weighted average price increases from approximately US\$100,000 per set

in 2025 to US\$105,000 in 2026

Electrothermal ice protection represents the principal commercial technology route

Demand remains concentrated in certification aircraft defense trials and cold-weather mission platforms

Global shipments are projected to approach 170 sets by 2032

Market Trends

The eVTOL Rotor Ice Protection Systems industry is moving from adapted conventional-aircraft hardware toward lightweight, digitally controlled systems developed around distributed electric propulsion. Product development increasingly emphasizes reduced size, weight and power consumption because heating multiple rotors can materially affect aircraft range, payload and battery reserves. Closed-loop temperature control, autonomous ice detection and selective blade-zone activation are replacing simple fixed-time heating cycles in advanced projects. Integration is also shifting earlier into rotor and propeller design, allowing heating structures, wiring and sensors to be embedded within composite blades instead of added after manufacture. Field demonstrations in real icing environments are becoming more important alongside icing-wind-tunnel testing, particularly for defense, logistics and other missions requiring reliable cold-weather operation. Ubiq Aerospace has demonstrated an integrated sensing and propeller-protection system in Arctic conditions, while established aviation suppliers continue to adapt certified electrothermal and fluid-based technologies for advanced air mobility platforms.

Market Dynamics

Drivers

The primary growth driver is the gradual transition of eVTOL aircraft from prototype development toward certification, fleet trials and commercial operation. The FAA expects advanced air mobility entry into service to begin gradually, with initial applications expanding as aircraft certification, operating infrastructure and viable business models mature. As operators seek higher aircraft utilization, weather-related

dispatch reliability becomes increasingly important, particularly for regional routes, cargo services, emergency missions and operations in northern climates. Rotor icing can reduce thrust, generate vibration and create asymmetric ice shedding, making active protection a flight-safety and mission-continuity requirement for aircraft expected to operate beyond fair-weather conditions.

Restraints

Market adoption is restricted by the weight, power consumption and certification burden associated with protecting multiple rotors or propellers. Early eVTOL aircraft are highly sensitive to additional electrical load because the same battery system supports propulsion, flight controls and onboard equipment. Ice protection can also require blade redesign, rotating power-transfer hardware, redundant control channels and extensive wind-tunnel and flight validation. Many early passenger eVTOL operations are expected to begin under operating limitations that avoid severe weather and known icing, reducing the immediate need for full aircraft ice protection. Low initial aircraft production volumes further increase engineering cost per shipset and delay the development of standardized system architectures. The FAA characterizes initial advanced air mobility deployment as gradual, while major aircraft developers continue to identify weather, certification and production timing as material operating risks.

Opportunities

The strongest opportunities are associated with eVTOL platforms that cannot rely on weather avoidance as their primary protection strategy. These include military logistics, emergency response, medical transport, infrastructure inspection and regional mobility in locations with frequent clouds, freezing precipitation or prolonged low temperatures. Suppliers can also expand by offering modular systems that accommodate different rotor counts, blade geometries and aircraft voltage architectures. Integrated packages combining ice detection, intelligent controls and active mitigation can capture more value than stand-alone heating elements. Retrofit opportunities may emerge as early fleets seek expanded operating envelopes after initial certification, while fluid-based and electromechanical technologies provide alternatives where continuous electrothermal heating creates excessive power demand. Existing certified aviation ice-protection technologies provide a foundation for these applications, but successful products will require substantial adaptation to eVTOL weight and power constraints.

Challenges

The industry faces long development cycles, limited near-term production volumes and substantial uncertainty over which eVTOL configurations will achieve commercial scale. Multicopter, lift-and-cruise and tilt-rotor aircraft require different power-transfer arrangements, blade protection areas and control strategies, limiting product standardization. Icing certification requires repeatable evidence across numerous temperature, liquid-water-content and droplet-size conditions, while ice shedding from one rotor can affect adjacent rotors, airframes or passengers. Suppliers must also compete with internal development programs at major aircraft manufacturers, which can reduce the addressable third-party market. Program delays or aircraft redesigns may strand supplier engineering investment, and the small number of early shipsets can create volatile annual revenue even where long-term demand remains attractive.

Industry Chain Analysis

The upstream industry comprises aerospace-grade resistance heaters, conductive films, carbon-fiber heating panels, erosion-resistant blade coverings, composite materials, ice-detection and temperature sensors, power electronics, high-reliability connectors, slip rings, wiring and freezing-point-depressant fluids. These components must meet stringent requirements for mass, vibration resistance, thermal cycling, electromagnetic compatibility and environmental durability. Component value is relatively modest compared with the cost of adapting the technology to a specific rotor geometry and aircraft electrical architecture.

Midstream suppliers perform thermal design, aerodynamic integration, control-system development, rotating power-interface design, prototype manufacturing, icing-wind-tunnel testing, flight validation and certification support. This engineering and qualification activity represents a major share of total system value. Downstream customers are eVTOL manufacturers, propulsion-system suppliers, defense integrators, fleet operators and aircraft modification organizations. Value creation progresses from materials and components through aircraft-specific system engineering and certification, followed by original-equipment installation, maintenance, replacement and potential retrofit. Established aerospace suppliers benefit from certification experience and manufacturing quality systems, while specialist entrants compete through lower weight, reduced energy consumption and faster customization.

Segment Insights

Electrothermal Ice Protection Systems form the largest and most commercially established product segment because they can be integrated into composite blades, precisely controlled and operated without carrying consumable fluid. The segment benefits from existing aerospace experience in rotor-blade and propeller heating, as demonstrated by products for main rotors, tail rotors, propellers and advanced air mobility applications. Fluid-Based Ice Protection Systems offer lower electrical demand and may suit smaller aircraft or platforms with limited available power, although fluid storage, replenishment and distribution add weight and operational requirements. Electromechanical and Hybrid Ice Protection Systems remain smaller but offer potential where low average power consumption is more important than design simplicity.

Closed-loop systems are expected to gain importance relative to fixed-cycle systems because they can activate only the required blade zones and adjust output according to temperature or detected ice. Original-equipment installation represents the principal commercial channel, since blade heating structures and rotating electrical interfaces are most efficiently integrated during rotor and aircraft development. Retrofit installation remains relevant for demonstrators, military aircraft and operational fleets seeking to expand their approved weather envelope.

Downstream Market Opportunities

Near-term demand is likely to be led by certification aircraft, defense evaluations and unmanned or optionally piloted platforms operating in cold environments. Defense logistics and public-safety missions place a high value on dispatch reliability, while medical delivery and industrial inspection applications may require operation during weather conditions that would ground conventional small aircraft or drones. Cargo and regional mobility platforms also offer stronger long-term potential than purely fair-weather urban sightseeing because they depend on scheduled services and high asset utilization. Passenger air-taxi demand will become more material as certified fleets expand and operators seek broader seasonal availability, but full known-icing capability is unlikely to be standard on every initial aircraft configuration.

Regional Insights

North America and Europe form the principal technology and commercialization centers

for eVTOL Rotor Ice Protection Systems. North America combines major advanced air mobility certification programs, established rotor and propeller ice-protection manufacturers, defense testing demand and a mature aerospace qualification ecosystem. Europe has a concentrated supplier base across the United Kingdom, France, Norway, Austria and Germany, with strengths in electrothermal systems, fluid-based protection, intelligent controls and propeller integration. European opportunities are reinforced by operations in northern and mountainous environments where icing can materially constrain aircraft availability.

Asia Pacific is developing a broader base of eVTOL manufacturers and internal ice-protection research. China has established aviation ice-protection system capabilities and several aircraft developers with rotor or propeller de-icing intellectual property, although commercial third-party eVTOL system supply remains at an early stage. Japan and South Korea offer potential through aerospace electronics, rotorcraft and advanced-aircraft programs, while India, Southeast Asia and Taiwan currently have limited evidence of independent complete-system suppliers. Regional market development will therefore depend more on aircraft certification, local operating conditions and OEM sourcing decisions than on general eVTOL production alone.

Competitive Landscape Analysis

The competitive landscape contains three principal supplier groups. Established aerospace ice-protection companies offer certification experience, validated manufacturing processes and complete system-management capabilities. Propeller and rotor-system manufacturers participate by delivering integrated de-icing configurations with their propulsion products. Specialist technology companies focus on lightweight electrothermal panels, intelligent sensing, low-power fluid systems and electromechanical solutions developed for unmanned aircraft and advanced air mobility. The confirmed supplier base includes approximately 15 core companies, but their exposure to eVTOL programs varies considerably, and traditional rotorcraft or general-aviation revenue should not be interpreted as eVTOL market revenue. Competitive advantage is determined less by component price than by aircraft-level integration capability, power efficiency, system weight, qualification evidence and the ability to support certification. Partnerships with rotor manufacturers and early engagement in aircraft design programs are critical because changing a protection system after blade and electrical architectures have been finalized can involve significant redesign and testing.

Report Scope

This report studies the global eVTOL Rotor Ice Protection Systems production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for eVTOL Rotor Ice Protection Systems and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of eVTOL Rotor Ice Protection Systems that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global eVTOL Rotor Ice Protection Systems total production and demand, 2021-2032, (Sets)

Global eVTOL Rotor Ice Protection Systems total production value, 2021-2032, (USD Million)

Global eVTOL Rotor Ice Protection Systems production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Sets), (based on production site)

Global eVTOL Rotor Ice Protection Systems consumption by region & country, CAGR, 2021-2032 & (Sets)

U.S. VS China: eVTOL Rotor Ice Protection Systems domestic production, consumption, key domestic manufacturers and share

Global eVTOL Rotor Ice Protection Systems production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Sets)

Global eVTOL Rotor Ice Protection Systems production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Sets)

Global eVTOL Rotor Ice Protection Systems production by Application,

production, value, CAGR, 2021-2032, (USD Million) & (Sets)

This report profiles key players in the global eVTOL Rotor Ice Protection Systems market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Collins Aerospace, Parker Meggitt, Hutchinson S.A., Loar Holdings Inc., Safran Aerosystems, GKN Aerospace, Hartzell Propeller LLC, Dowty Propellers, McCauley Propeller Systems, MT-Propeller Entwicklung GmbH, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World eVTOL Rotor Ice Protection Systems market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Sets) and average price (US\$/Set) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global eVTOL Rotor Ice Protection Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global eVTOL Rotor Ice Protection Systems Market, Segmentation by Type:

Electrothermal Ice Protection Systems

Fluid-Based Ice Protection Systems

Electromechanical Ice Protection Systems

Hybrid Ice Protection Systems

Other

Global eVTOL Rotor Ice Protection Systems Market, Segmentation by Operating Mode:

Anti-Icing Systems

De-Icing Systems

Dual-Mode Ice Protection Systems

Other

Global eVTOL Rotor Ice Protection Systems Market, Segmentation by Application:

Passenger Air Taxi Operations

Regional Commuter Operations

Cargo Logistics Operations

Medical Delivery Operations

Defense Operations

Public Safety Operations

Industrial Inspection Operations

Other

Companies Profiled:

Collins Aerospace

Parker Meggitt

Hutchinson S.A.

Loar Holdings Inc.

Safran Aerosystems

GKN Aerospace

Hartzell Propeller LLC

Dowty Propellers

McCauley Propeller Systems

MT-Propeller Entwicklung GmbH

Ubiq Aerospace AS

Villinger GmbH

Ultra PCS Limited

UAS Technologies, Inc.

Wuhan Aviation Instrument Co., Ltd.

Key Questions Answered

1. How big is the global eVTOL Rotor Ice Protection Systems market?
2. What is the demand of the global eVTOL Rotor Ice Protection Systems market?
3. What is the year over year growth of the global eVTOL Rotor Ice Protection Systems market?
4. What is the total value of the global eVTOL Rotor Ice Protection Systems market?
5. Who are the Major Players in the global eVTOL Rotor Ice Protection Systems market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 eVTOL Rotor Ice Protection Systems Introduction
- 1.2 World eVTOL Rotor Ice Protection Systems Supply & Forecast
 - 1.2.1 World eVTOL Rotor Ice Protection Systems Production Value (2021 & 2025 & 2032)
 - 1.2.2 World eVTOL Rotor Ice Protection Systems Production (2021-2032)
 - 1.2.3 World eVTOL Rotor Ice Protection Systems Pricing Trends (2021-2032)
- 1.3 World eVTOL Rotor Ice Protection Systems Production by Region (Based on Production Site)
 - 1.3.1 World eVTOL Rotor Ice Protection Systems Production Value by Region (2021-2032)
 - 1.3.2 World eVTOL Rotor Ice Protection Systems Production by Region (2021-2032)
 - 1.3.3 World eVTOL Rotor Ice Protection Systems Average Price by Region (2021-2032)
 - 1.3.4 North America eVTOL Rotor Ice Protection Systems Production (2021-2032)
 - 1.3.5 Europe eVTOL Rotor Ice Protection Systems Production (2021-2032)
 - 1.3.6 China eVTOL Rotor Ice Protection Systems Production (2021-2032)
 - 1.3.7 Japan eVTOL Rotor Ice Protection Systems Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 eVTOL Rotor Ice Protection Systems Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 eVTOL Rotor Ice Protection Systems Major Market Trends

2 DEMAND SUMMARY

- 2.1 World eVTOL Rotor Ice Protection Systems Demand (2021-2032)
- 2.2 World eVTOL Rotor Ice Protection Systems Consumption by Region
 - 2.2.1 World eVTOL Rotor Ice Protection Systems Consumption by Region (2021-2026)
 - 2.2.2 World eVTOL Rotor Ice Protection Systems Consumption Forecast by Region (2027-2032)
- 2.3 United States eVTOL Rotor Ice Protection Systems Consumption (2021-2032)
- 2.4 China eVTOL Rotor Ice Protection Systems Consumption (2021-2032)
- 2.5 Europe eVTOL Rotor Ice Protection Systems Consumption (2021-2032)
- 2.6 Japan eVTOL Rotor Ice Protection Systems Consumption (2021-2032)
- 2.7 South Korea eVTOL Rotor Ice Protection Systems Consumption (2021-2032)

2.8 ASEAN eVTOL Rotor Ice Protection Systems Consumption (2021-2032)

2.9 India eVTOL Rotor Ice Protection Systems Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World eVTOL Rotor Ice Protection Systems Production Value by Manufacturer (2021-2026)

3.2 World eVTOL Rotor Ice Protection Systems Production by Manufacturer (2021-2026)

3.3 World eVTOL Rotor Ice Protection Systems Average Price by Manufacturer (2021-2026)

3.4 eVTOL Rotor Ice Protection Systems Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global eVTOL Rotor Ice Protection Systems Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for eVTOL Rotor Ice Protection Systems in 2025

3.5.3 Global Concentration Ratios (CR8) for eVTOL Rotor Ice Protection Systems in 2025

3.6 eVTOL Rotor Ice Protection Systems Market: Overall Company Footprint Analysis

3.6.1 eVTOL Rotor Ice Protection Systems Market: Region Footprint

3.6.2 eVTOL Rotor Ice Protection Systems Market: Company Product Type Footprint

3.6.3 eVTOL Rotor Ice Protection Systems Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: eVTOL Rotor Ice Protection Systems Production Value Comparison

4.1.1 United States VS China: eVTOL Rotor Ice Protection Systems Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: eVTOL Rotor Ice Protection Systems Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: eVTOL Rotor Ice Protection Systems Production Comparison

4.2.1 United States VS China: eVTOL Rotor Ice Protection Systems Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: eVTOL Rotor Ice Protection Systems Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: eVTOL Rotor Ice Protection Systems Consumption Comparison

4.3.1 United States VS China: eVTOL Rotor Ice Protection Systems Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: eVTOL Rotor Ice Protection Systems Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based eVTOL Rotor Ice Protection Systems Manufacturers and Market Share, 2021-2026

4.4.1 United States Based eVTOL Rotor Ice Protection Systems Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers eVTOL Rotor Ice Protection Systems Production Value (2021-2026)

4.4.3 United States Based Manufacturers eVTOL Rotor Ice Protection Systems Production (2021-2026)

4.5 China Based eVTOL Rotor Ice Protection Systems Manufacturers and Market Share

4.5.1 China Based eVTOL Rotor Ice Protection Systems Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers eVTOL Rotor Ice Protection Systems Production Value (2021-2026)

4.5.3 China Based Manufacturers eVTOL Rotor Ice Protection Systems Production (2021-2026)

4.6 Rest of World Based eVTOL Rotor Ice Protection Systems Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based eVTOL Rotor Ice Protection Systems Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers eVTOL Rotor Ice Protection Systems Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers eVTOL Rotor Ice Protection Systems Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World eVTOL Rotor Ice Protection Systems Market Size Overview by Type: 2021

VS 2025 VS 2032

5.2 Segment Introduction by Type

- 5.2.1 Electrothermal Ice Protection Systems
- 5.2.2 Fluid-Based Ice Protection Systems
- 5.2.3 Electromechanical Ice Protection Systems
- 5.2.4 Hybrid Ice Protection Systems
- 5.2.5 Other

5.3 Market Segment by Type

- 5.3.1 World eVTOL Rotor Ice Protection Systems Production by Type (2021-2032)
- 5.3.2 World eVTOL Rotor Ice Protection Systems Production Value by Type (2021-2032)
- 5.3.3 World eVTOL Rotor Ice Protection Systems Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY OPERATING MODE

6.1 World eVTOL Rotor Ice Protection Systems Market Size Overview by Operating Mode: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Operating Mode

- 6.2.1 Anti-Icing Systems
- 6.2.2 De-Icing Systems
- 6.2.3 Dual-Mode Ice Protection Systems
- 6.2.4 Other

6.3 Market Segment by Operating Mode

- 6.3.1 World eVTOL Rotor Ice Protection Systems Production by Operating Mode (2021-2032)
- 6.3.2 World eVTOL Rotor Ice Protection Systems Production Value by Operating Mode (2021-2032)
- 6.3.3 World eVTOL Rotor Ice Protection Systems Average Price by Operating Mode (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World eVTOL Rotor Ice Protection Systems Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

- 7.2.1 Passenger Air Taxi Operations
- 7.2.2 Regional Commuter Operations
- 7.2.3 Cargo Logistics Operations
- 7.2.4 Medical Delivery Operations

- 7.2.5 Defense Operations
- 7.2.6 Public Safety Operations
- 7.2.7 Industrial Inspection Operations
- 7.2.8 Other

7.3 Market Segment by Application

- 7.3.1 World eVTOL Rotor Ice Protection Systems Production by Application (2021-2032)
- 7.3.2 World eVTOL Rotor Ice Protection Systems Production Value by Application (2021-2032)
- 7.3.3 World eVTOL Rotor Ice Protection Systems Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 Collins Aerospace

- 8.1.1 Collins Aerospace Details
- 8.1.2 Collins Aerospace Major Business
- 8.1.3 Collins Aerospace eVTOL Rotor Ice Protection Systems Product and Services
- 8.1.4 Collins Aerospace eVTOL Rotor Ice Protection Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.1.5 Collins Aerospace Recent Developments/Updates
- 8.1.6 Collins Aerospace Competitive Strengths & Weaknesses

8.2 Parker Meggitt

- 8.2.1 Parker Meggitt Details
- 8.2.2 Parker Meggitt Major Business
- 8.2.3 Parker Meggitt eVTOL Rotor Ice Protection Systems Product and Services
- 8.2.4 Parker Meggitt eVTOL Rotor Ice Protection Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.2.5 Parker Meggitt Recent Developments/Updates
- 8.2.6 Parker Meggitt Competitive Strengths & Weaknesses

8.3 Hutchinson S.A.

- 8.3.1 Hutchinson S.A. Details
- 8.3.2 Hutchinson S.A. Major Business
- 8.3.3 Hutchinson S.A. eVTOL Rotor Ice Protection Systems Product and Services
- 8.3.4 Hutchinson S.A. eVTOL Rotor Ice Protection Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.3.5 Hutchinson S.A. Recent Developments/Updates
- 8.3.6 Hutchinson S.A. Competitive Strengths & Weaknesses

8.4 Loar Holdings Inc.

- 8.4.1 Loar Holdings Inc. Details
- 8.4.2 Loar Holdings Inc. Major Business
- 8.4.3 Loar Holdings Inc. eVTOL Rotor Ice Protection Systems Product and Services
- 8.4.4 Loar Holdings Inc. eVTOL Rotor Ice Protection Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.4.5 Loar Holdings Inc. Recent Developments/Updates
- 8.4.6 Loar Holdings Inc. Competitive Strengths & Weaknesses
- 8.5 Safran Aerosystems
 - 8.5.1 Safran Aerosystems Details
 - 8.5.2 Safran Aerosystems Major Business
 - 8.5.3 Safran Aerosystems eVTOL Rotor Ice Protection Systems Product and Services
 - 8.5.4 Safran Aerosystems eVTOL Rotor Ice Protection Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.5.5 Safran Aerosystems Recent Developments/Updates
 - 8.5.6 Safran Aerosystems Competitive Strengths & Weaknesses
- 8.6 GKN Aerospace
 - 8.6.1 GKN Aerospace Details
 - 8.6.2 GKN Aerospace Major Business
 - 8.6.3 GKN Aerospace eVTOL Rotor Ice Protection Systems Product and Services
 - 8.6.4 GKN Aerospace eVTOL Rotor Ice Protection Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.6.5 GKN Aerospace Recent Developments/Updates
 - 8.6.6 GKN Aerospace Competitive Strengths & Weaknesses
- 8.7 Hartzell Propeller LLC
 - 8.7.1 Hartzell Propeller LLC Details
 - 8.7.2 Hartzell Propeller LLC Major Business
 - 8.7.3 Hartzell Propeller LLC eVTOL Rotor Ice Protection Systems Product and Services
 - 8.7.4 Hartzell Propeller LLC eVTOL Rotor Ice Protection Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.7.5 Hartzell Propeller LLC Recent Developments/Updates
 - 8.7.6 Hartzell Propeller LLC Competitive Strengths & Weaknesses
- 8.8 Dowty Propellers
 - 8.8.1 Dowty Propellers Details
 - 8.8.2 Dowty Propellers Major Business
 - 8.8.3 Dowty Propellers eVTOL Rotor Ice Protection Systems Product and Services
 - 8.8.4 Dowty Propellers eVTOL Rotor Ice Protection Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.8.5 Dowty Propellers Recent Developments/Updates

- 8.8.6 Dowty Propellers Competitive Strengths & Weaknesses
- 8.9 McCauley Propeller Systems
 - 8.9.1 McCauley Propeller Systems Details
 - 8.9.2 McCauley Propeller Systems Major Business
 - 8.9.3 McCauley Propeller Systems eVTOL Rotor Ice Protection Systems Product and Services
 - 8.9.4 McCauley Propeller Systems eVTOL Rotor Ice Protection Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.9.5 McCauley Propeller Systems Recent Developments/Updates
 - 8.9.6 McCauley Propeller Systems Competitive Strengths & Weaknesses
- 8.10 MT-Propeller Entwicklung GmbH
 - 8.10.1 MT-Propeller Entwicklung GmbH Details
 - 8.10.2 MT-Propeller Entwicklung GmbH Major Business
 - 8.10.3 MT-Propeller Entwicklung GmbH eVTOL Rotor Ice Protection Systems Product and Services
 - 8.10.4 MT-Propeller Entwicklung GmbH eVTOL Rotor Ice Protection Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.10.5 MT-Propeller Entwicklung GmbH Recent Developments/Updates
 - 8.10.6 MT-Propeller Entwicklung GmbH Competitive Strengths & Weaknesses
- 8.11 Ubiq Aerospace AS
 - 8.11.1 Ubiq Aerospace AS Details
 - 8.11.2 Ubiq Aerospace AS Major Business
 - 8.11.3 Ubiq Aerospace AS eVTOL Rotor Ice Protection Systems Product and Services
 - 8.11.4 Ubiq Aerospace AS eVTOL Rotor Ice Protection Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.11.5 Ubiq Aerospace AS Recent Developments/Updates
 - 8.11.6 Ubiq Aerospace AS Competitive Strengths & Weaknesses
- 8.12 Villinger GmbH
 - 8.12.1 Villinger GmbH Details
 - 8.12.2 Villinger GmbH Major Business
 - 8.12.3 Villinger GmbH eVTOL Rotor Ice Protection Systems Product and Services
 - 8.12.4 Villinger GmbH eVTOL Rotor Ice Protection Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.12.5 Villinger GmbH Recent Developments/Updates
 - 8.12.6 Villinger GmbH Competitive Strengths & Weaknesses
- 8.13 Ultra PCS Limited
 - 8.13.1 Ultra PCS Limited Details
 - 8.13.2 Ultra PCS Limited Major Business
 - 8.13.3 Ultra PCS Limited eVTOL Rotor Ice Protection Systems Product and Services

8.13.4 Ultra PCS Limited eVTOL Rotor Ice Protection Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.13.5 Ultra PCS Limited Recent Developments/Updates

8.13.6 Ultra PCS Limited Competitive Strengths & Weaknesses

8.14 UAS Technologies, Inc.

8.14.1 UAS Technologies, Inc. Details

8.14.2 UAS Technologies, Inc. Major Business

8.14.3 UAS Technologies, Inc. eVTOL Rotor Ice Protection Systems Product and Services

8.14.4 UAS Technologies, Inc. eVTOL Rotor Ice Protection Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.14.5 UAS Technologies, Inc. Recent Developments/Updates

8.14.6 UAS Technologies, Inc. Competitive Strengths & Weaknesses

8.15 Wuhan Aviation Instrument Co., Ltd.

8.15.1 Wuhan Aviation Instrument Co., Ltd. Details

8.15.2 Wuhan Aviation Instrument Co., Ltd. Major Business

8.15.3 Wuhan Aviation Instrument Co., Ltd. eVTOL Rotor Ice Protection Systems Product and Services

8.15.4 Wuhan Aviation Instrument Co., Ltd. eVTOL Rotor Ice Protection Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.15.5 Wuhan Aviation Instrument Co., Ltd. Recent Developments/Updates

8.15.6 Wuhan Aviation Instrument Co., Ltd. Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 eVTOL Rotor Ice Protection Systems Industry Chain

9.2 eVTOL Rotor Ice Protection Systems Upstream Analysis

9.2.1 eVTOL Rotor Ice Protection Systems Core Raw Materials

9.2.2 Main Manufacturers of eVTOL Rotor Ice Protection Systems Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 eVTOL Rotor Ice Protection Systems Production Mode

9.6 eVTOL Rotor Ice Protection Systems Procurement Model

9.7 eVTOL Rotor Ice Protection Systems Industry Sales Model and Sales Channels

9.7.1 eVTOL Rotor Ice Protection Systems Sales Model

9.7.2 eVTOL Rotor Ice Protection Systems Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World eVTOL Rotor Ice Protection Systems Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World eVTOL Rotor Ice Protection Systems Production Value by Region (2021-2026) & (USD Million)

Table 3. World eVTOL Rotor Ice Protection Systems Production Value by Region (2027-2032) & (USD Million)

Table 4. World eVTOL Rotor Ice Protection Systems Production Value Market Share by Region (2021-2026)

Table 5. World eVTOL Rotor Ice Protection Systems Production Value Market Share by Region (2027-2032)

Table 6. World eVTOL Rotor Ice Protection Systems Production by Region (2021-2026) & (Sets)

Table 7. World eVTOL Rotor Ice Protection Systems Production by Region (2027-2032) & (Sets)

Table 8. World eVTOL Rotor Ice Protection Systems Production Market Share by Region (2021-2026)

Table 9. World eVTOL Rotor Ice Protection Systems Production Market Share by Region (2027-2032)

Table 10. World eVTOL Rotor Ice Protection Systems Average Price by Region (2021-2026) & (US\$/Set)

Table 11. World eVTOL Rotor Ice Protection Systems Average Price by Region (2027-2032) & (US\$/Set)

Table 12. eVTOL Rotor Ice Protection Systems Major Market Trends

Table 13. World eVTOL Rotor Ice Protection Systems Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Sets)

Table 14. World eVTOL Rotor Ice Protection Systems Consumption by Region (2021-2026) & (Sets)

Table 15. World eVTOL Rotor Ice Protection Systems Consumption Forecast by Region (2027-2032) & (Sets)

Table 16. World eVTOL Rotor Ice Protection Systems Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key eVTOL Rotor Ice Protection Systems Producers in 2025

Table 18. World eVTOL Rotor Ice Protection Systems Production by Manufacturer (2021-2026) & (Sets)

Table 19. Production Market Share of Key eVTOL Rotor Ice Protection Systems Producers in 2025

Table 20. World eVTOL Rotor Ice Protection Systems Average Price by Manufacturer (2021-2026) & (US\$/Set)

Table 21. Global eVTOL Rotor Ice Protection Systems Company Evaluation Quadrant

Table 22. World eVTOL Rotor Ice Protection Systems Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and eVTOL Rotor Ice Protection Systems Production Site of Key Manufacturer

Table 24. eVTOL Rotor Ice Protection Systems Market: Company Product Type Footprint

Table 25. eVTOL Rotor Ice Protection Systems Market: Company Product Application Footprint

Table 26. eVTOL Rotor Ice Protection Systems Competitive Factors

Table 27. eVTOL Rotor Ice Protection Systems New Entrant and Capacity Expansion Plans

Table 28. eVTOL Rotor Ice Protection Systems Mergers & Acquisitions Activity

Table 29. United States VS China eVTOL Rotor Ice Protection Systems Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China eVTOL Rotor Ice Protection Systems Production Comparison, (2021 & 2025 & 2032) & (Sets)

Table 31. United States VS China eVTOL Rotor Ice Protection Systems Consumption Comparison, (2021 & 2025 & 2032) & (Sets)

Table 32. United States Based eVTOL Rotor Ice Protection Systems Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers eVTOL Rotor Ice Protection Systems Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers eVTOL Rotor Ice Protection Systems Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers eVTOL Rotor Ice Protection Systems Production (2021-2026) & (Sets)

Table 36. United States Based Manufacturers eVTOL Rotor Ice Protection Systems Production Market Share (2021-2026)

Table 37. China Based eVTOL Rotor Ice Protection Systems Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers eVTOL Rotor Ice Protection Systems Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers eVTOL Rotor Ice Protection Systems Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers eVTOL Rotor Ice Protection Systems Production, (2021-2026) & (Sets)

Table 41. China Based Manufacturers eVTOL Rotor Ice Protection Systems Production Market Share (2021-2026)

Table 42. Rest of World Based eVTOL Rotor Ice Protection Systems Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers eVTOL Rotor Ice Protection Systems Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers eVTOL Rotor Ice Protection Systems Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers eVTOL Rotor Ice Protection Systems Production, (2021-2026) & (Sets)

Table 46. Rest of World Based Manufacturers eVTOL Rotor Ice Protection Systems Production Market Share (2021-2026)

Table 47. World eVTOL Rotor Ice Protection Systems Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World eVTOL Rotor Ice Protection Systems Production by Type (2021-2026) & (Sets)

Table 49. World eVTOL Rotor Ice Protection Systems Production by Type (2027-2032) & (Sets)

Table 50. World eVTOL Rotor Ice Protection Systems Production Value by Type (2021-2026) & (USD Million)

Table 51. World eVTOL Rotor Ice Protection Systems Production Value by Type (2027-2032) & (USD Million)

Table 52. World eVTOL Rotor Ice Protection Systems Average Price by Type (2021-2026) & (US\$/Set)

Table 53. World eVTOL Rotor Ice Protection Systems Average Price by Type (2027-2032) & (US\$/Set)

Table 54. World eVTOL Rotor Ice Protection Systems Production Value by Operating Mode, (USD Million), 2021 & 2025 & 2032

Table 55. World eVTOL Rotor Ice Protection Systems Production by Operating Mode (2021-2026) & (Sets)

Table 56. World eVTOL Rotor Ice Protection Systems Production by Operating Mode (2027-2032) & (Sets)

Table 57. World eVTOL Rotor Ice Protection Systems Production Value by Operating Mode (2021-2026) & (USD Million)

Table 58. World eVTOL Rotor Ice Protection Systems Production Value by Operating Mode (2027-2032) & (USD Million)

Table 59. World eVTOL Rotor Ice Protection Systems Average Price by Operating

Mode (2021-2026) & (US\$/Set)

Table 60. World eVTOL Rotor Ice Protection Systems Average Price by Operating Mode (2027-2032) & (US\$/Set)

Table 61. World eVTOL Rotor Ice Protection Systems Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World eVTOL Rotor Ice Protection Systems Production by Application (2021-2026) & (Sets)

Table 63. World eVTOL Rotor Ice Protection Systems Production by Application (2027-2032) & (Sets)

Table 64. World eVTOL Rotor Ice Protection Systems Production Value by Application (2021-2026) & (USD Million)

Table 65. World eVTOL Rotor Ice Protection Systems Production Value by Application (2027-2032) & (USD Million)

Table 66. World eVTOL Rotor Ice Protection Systems Average Price by Application (2021-2026) & (US\$/Set)

Table 67. World eVTOL Rotor Ice Protection Systems Average Price by Application (2027-2032) & (US\$/Set)

Table 68. Collins Aerospace Basic Information, Manufacturing Base and Competitors

Table 69. Collins Aerospace Major Business

Table 70. Collins Aerospace eVTOL Rotor Ice Protection Systems Product and Services

Table 71. Collins Aerospace eVTOL Rotor Ice Protection Systems Production (Sets), Price (US\$/Set), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Collins Aerospace Recent Developments/Updates

Table 73. Collins Aerospace Competitive Strengths & Weaknesses

Table 74. Parker Meggitt Basic Information, Manufacturing Base and Competitors

Table 75. Parker Meggitt Major Business

Table 76. Parker Meggitt eVTOL Rotor Ice Protection Systems Product and Services

Table 77. Parker Meggitt eVTOL Rotor Ice Protection Systems Production (Sets), Price (US\$/Set), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Parker Meggitt Recent Developments/Updates

Table 79. Parker Meggitt Competitive Strengths & Weaknesses

Table 80. Hutchinson S.A. Basic Information, Manufacturing Base and Competitors

Table 81. Hutchinson S.A. Major Business

Table 82. Hutchinson S.A. eVTOL Rotor Ice Protection Systems Product and Services

Table 83. Hutchinson S.A. eVTOL Rotor Ice Protection Systems Production (Sets), Price (US\$/Set), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Hutchinson S.A. Recent Developments/Updates
Table 85. Hutchinson S.A. Competitive Strengths & Weaknesses
Table 86. Loar Holdings Inc. Basic Information, Manufacturing Base and Competitors
Table 87. Loar Holdings Inc. Major Business
Table 88. Loar Holdings Inc. eVTOL Rotor Ice Protection Systems Product and Services
Table 89. Loar Holdings Inc. eVTOL Rotor Ice Protection Systems Production (Sets), Price (US\$/Set), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 90. Loar Holdings Inc. Recent Developments/Updates
Table 91. Loar Holdings Inc. Competitive Strengths & Weaknesses
Table 92. Safran Aerosystems Basic Information, Manufacturing Base and Competitors
Table 93. Safran Aerosystems Major Business
Table 94. Safran Aerosystems eVTOL Rotor Ice Protection Systems Product and Services
Table 95. Safran Aerosystems eVTOL Rotor Ice Protection Systems Production (Sets), Price (US\$/Set), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 96. Safran Aerosystems Recent Developments/Updates
Table 97. Safran Aerosystems Competitive Strengths & Weaknesses
Table 98. GKN Aerospace Basic Information, Manufacturing Base and Competitors
Table 99. GKN Aerospace Major Business
Table 100. GKN Aerospace eVTOL Rotor Ice Protection Systems Product and Services
Table 101. GKN Aerospace eVTOL Rotor Ice Protection Systems Production (Sets), Price (US\$/Set), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 102. GKN Aerospace Recent Developments/Updates
Table 103. GKN Aerospace Competitive Strengths & Weaknesses
Table 104. Hartzell Propeller LLC Basic Information, Manufacturing Base and Competitors
Table 105. Hartzell Propeller LLC Major Business
Table 106. Hartzell Propeller LLC eVTOL Rotor Ice Protection Systems Product and Services
Table 107. Hartzell Propeller LLC eVTOL Rotor Ice Protection Systems Production (Sets), Price (US\$/Set), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 108. Hartzell Propeller LLC Recent Developments/Updates
Table 109. Hartzell Propeller LLC Competitive Strengths & Weaknesses
Table 110. Dowty Propellers Basic Information, Manufacturing Base and Competitors
Table 111. Dowty Propellers Major Business

Table 112. Dowty Propellers eVTOL Rotor Ice Protection Systems Product and Services

Table 113. Dowty Propellers eVTOL Rotor Ice Protection Systems Production (Sets), Price (US\$/Set), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. Dowty Propellers Recent Developments/Updates

Table 115. Dowty Propellers Competitive Strengths & Weaknesses

Table 116. McCauley Propeller Systems Basic Information, Manufacturing Base and Competitors

Table 117. McCauley Propeller Systems Major Business

Table 118. McCauley Propeller Systems eVTOL Rotor Ice Protection Systems Product and Services

Table 119. McCauley Propeller Systems eVTOL Rotor Ice Protection Systems Production (Sets), Price (US\$/Set), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. McCauley Propeller Systems Recent Developments/Updates

Table 121. McCauley Propeller Systems Competitive Strengths & Weaknesses

Table 122. MT-Propeller Entwicklung GmbH Basic Information, Manufacturing Base and Competitors

Table 123. MT-Propeller Entwicklung GmbH Major Business

Table 124. MT-Propeller Entwicklung GmbH eVTOL Rotor Ice Protection Systems Product and Services

Table 125. MT-Propeller Entwicklung GmbH eVTOL Rotor Ice Protection Systems Production (Sets), Price (US\$/Set), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. MT-Propeller Entwicklung GmbH Recent Developments/Updates

Table 127. MT-Propeller Entwicklung GmbH Competitive Strengths & Weaknesses

Table 128. Ubiq Aerospace AS Basic Information, Manufacturing Base and Competitors

Table 129. Ubiq Aerospace AS Major Business

Table 130. Ubiq Aerospace AS eVTOL Rotor Ice Protection Systems Product and Services

Table 131. Ubiq Aerospace AS eVTOL Rotor Ice Protection Systems Production (Sets), Price (US\$/Set), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. Ubiq Aerospace AS Recent Developments/Updates

Table 133. Ubiq Aerospace AS Competitive Strengths & Weaknesses

Table 134. Villinger GmbH Basic Information, Manufacturing Base and Competitors

Table 135. Villinger GmbH Major Business

Table 136. Villinger GmbH eVTOL Rotor Ice Protection Systems Product and Services

Table 137. Villinger GmbH eVTOL Rotor Ice Protection Systems Production (Sets), Price (US\$/Set), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 138. Villinger GmbH Recent Developments/Updates

Table 139. Villinger GmbH Competitive Strengths & Weaknesses

Table 140. Ultra PCS Limited Basic Information, Manufacturing Base and Competitors

Table 141. Ultra PCS Limited Major Business

Table 142. Ultra PCS Limited eVTOL Rotor Ice Protection Systems Product and Services

Table 143. Ultra PCS Limited eVTOL Rotor Ice Protection Systems Production (Sets), Price (US\$/Set), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 144. Ultra PCS Limited Recent Developments/Updates

Table 145. Ultra PCS Limited Competitive Strengths & Weaknesses

Table 146. UAS Technologies, Inc. Basic Information, Manufacturing Base and Competitors

Table 147. UAS Technologies, Inc. Major Business

Table 148. UAS Technologies, Inc. eVTOL Rotor Ice Protection Systems Product and Services

Table 149. UAS Technologies, Inc. eVTOL Rotor Ice Protection Systems Production (Sets), Price (US\$/Set), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 150. UAS Technologies, Inc. Recent Developments/Updates

Table 151. UAS Technologies, Inc. Competitive Strengths & Weaknesses

Table 152. Wuhan Aviation Instrument Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 153. Wuhan Aviation Instrument Co., Ltd. Major Business

Table 154. Wuhan Aviation Instrument Co., Ltd. eVTOL Rotor Ice Protection Systems Product and Services

Table 155. Wuhan Aviation Instrument Co., Ltd. eVTOL Rotor Ice Protection Systems Production (Sets), Price (US\$/Set), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 156. Wuhan Aviation Instrument Co., Ltd. Recent Developments/Updates

Table 157. Wuhan Aviation Instrument Co., Ltd. Competitive Strengths & Weaknesses

Table 158. Global Key Players of eVTOL Rotor Ice Protection Systems Upstream (Raw Materials)

Table 159. Global eVTOL Rotor Ice Protection Systems Typical Customers

Table 160. eVTOL Rotor Ice Protection Systems Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. eVTOL Rotor Ice Protection Systems Picture
- Figure 2. World eVTOL Rotor Ice Protection Systems Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World eVTOL Rotor Ice Protection Systems Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World eVTOL Rotor Ice Protection Systems Production (2021-2032) & (Sets)
- Figure 5. World eVTOL Rotor Ice Protection Systems Average Price (2021-2032) & (US\$/Set)
- Figure 6. World eVTOL Rotor Ice Protection Systems Production Value Market Share by Region (2021-2032)
- Figure 7. World eVTOL Rotor Ice Protection Systems Production Market Share by Region (2021-2032)
- Figure 8. North America eVTOL Rotor Ice Protection Systems Production (2021-2032) & (Sets)
- Figure 9. Europe eVTOL Rotor Ice Protection Systems Production (2021-2032) & (Sets)
- Figure 10. China eVTOL Rotor Ice Protection Systems Production (2021-2032) & (Sets)
- Figure 11. Japan eVTOL Rotor Ice Protection Systems Production (2021-2032) & (Sets)
- Figure 12. eVTOL Rotor Ice Protection Systems Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World eVTOL Rotor Ice Protection Systems Consumption (2021-2032) & (Sets)
- Figure 15. World eVTOL Rotor Ice Protection Systems Consumption Market Share by Region (2021-2032)
- Figure 16. United States eVTOL Rotor Ice Protection Systems Consumption (2021-2032) & (Sets)
- Figure 17. China eVTOL Rotor Ice Protection Systems Consumption (2021-2032) & (Sets)
- Figure 18. Europe eVTOL Rotor Ice Protection Systems Consumption (2021-2032) & (Sets)
- Figure 19. Japan eVTOL Rotor Ice Protection Systems Consumption (2021-2032) & (Sets)
- Figure 20. South Korea eVTOL Rotor Ice Protection Systems Consumption (2021-2032) & (Sets)
- Figure 21. ASEAN eVTOL Rotor Ice Protection Systems Consumption (2021-2032) & (Sets)

Figure 22. India eVTOL Rotor Ice Protection Systems Consumption (2021-2032) & (Sets)

Figure 23. Producer Shipments of eVTOL Rotor Ice Protection Systems by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for eVTOL Rotor Ice Protection Systems Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for eVTOL Rotor Ice Protection Systems Markets in 2025

Figure 26. United States VS China: eVTOL Rotor Ice Protection Systems Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: eVTOL Rotor Ice Protection Systems Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: eVTOL Rotor Ice Protection Systems Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers eVTOL Rotor Ice Protection Systems Production Market Share 2025

Figure 30. China Based Manufacturers eVTOL Rotor Ice Protection Systems Production Market Share 2025

Figure 31. Rest of World Based Manufacturers eVTOL Rotor Ice Protection Systems Production Market Share 2025

Figure 32. World eVTOL Rotor Ice Protection Systems Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World eVTOL Rotor Ice Protection Systems Production Value Market Share by Type in 2025

Figure 34. Electrothermal Ice Protection Systems

Figure 35. Fluid-Based Ice Protection Systems

Figure 36. Electromechanical Ice Protection Systems

Figure 37. Hybrid Ice Protection Systems

Figure 38. Other

Figure 39. World eVTOL Rotor Ice Protection Systems Production Market Share by Type (2021-2032)

Figure 40. World eVTOL Rotor Ice Protection Systems Production Value Market Share by Type (2021-2032)

Figure 41. World eVTOL Rotor Ice Protection Systems Average Price by Type (2021-2032) & (US\$/Set)

Figure 42. World eVTOL Rotor Ice Protection Systems Production Value by Operating Mode, (USD Million), 2021 & 2025 & 2032

Figure 43. World eVTOL Rotor Ice Protection Systems Production Value Market Share by Operating Mode in 2025

Figure 44. Anti-Icing Systems

Figure 45. De-Icing Systems

Figure 46. Dual-Mode Ice Protection Systems

Figure 47. Other

Figure 48. World eVTOL Rotor Ice Protection Systems Production Market Share by Operating Mode (2021-2032)

Figure 49. World eVTOL Rotor Ice Protection Systems Production Value Market Share by Operating Mode (2021-2032)

Figure 50. World eVTOL Rotor Ice Protection Systems Average Price by Operating Mode (2021-2032) & (US\$/Set)

Figure 51. World eVTOL Rotor Ice Protection Systems Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 52. World eVTOL Rotor Ice Protection Systems Production Value Market Share by Application in 2025

Figure 53. Passenger Air Taxi Operations

Figure 54. Regional Commuter Operations

Figure 55. Cargo Logistics Operations

Figure 56. Medical Delivery Operations

Figure 57. Defense Operations

Figure 58. Public Safety Operations

Figure 59. Industrial Inspection Operations

Figure 60. Other

Figure 61. Other

Figure 62. World eVTOL Rotor Ice Protection Systems Production Market Share by Application (2021-2032)

Figure 63. World eVTOL Rotor Ice Protection Systems Production Value Market Share by Application (2021-2032)

Figure 64. World eVTOL Rotor Ice Protection Systems Average Price by Application (2021-2032) & (US\$/Set)

Figure 65. eVTOL Rotor Ice Protection Systems Industry Chain

Figure 66. eVTOL Rotor Ice Protection Systems Procurement Model

Figure 67. eVTOL Rotor Ice Protection Systems Sales Model

Figure 68. eVTOL Rotor Ice Protection Systems Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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