

# Global Flying De-icing Robot Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Flying De-icing Robot market size is expected to reach \$ 120 million by 2032, rising at a market growth of 7.1% CAGR during the forecast period (2026-2032).

In 2025, global Flying De-icing Robot production reached approximately 800 units, with an average global market price of around US\$95k per unit.

Flying de-icing robots typically refer to industrial drones equipped with dedicated de-icing/anti-icing payloads—such as mechanical knocking/scraping tools, vibration-based ice breakers, liquid spraying/coating systems, or thermal contact devices—to remotely or semi-autonomously remove ice from targets like power transmission lines (conductors, ground wires, insulator strings), exposed substation components, wind turbine blades, and towers in hard-to-reach and high-risk environments. Their key value is enabling safer, faster operations with visualized workflows and telemetry under low temperatures, strong winds, and energized-line proximity.

Upstream of flying de-icing robots consists of “drone platforms + working payloads + key components/materials”: heavy-lift multirotor or tethered drones, flight controllers and positioning (RTK/GNSS, IMU), and power systems; payloads such as high-pressure spraying/coating systems (pump, nozzles, hoses, tanks), mechanical end-effectors (insulated rods, blades/scrapers, vibration/impact modules), cameras and thermal/ice sensors, and communication links. Midstream integrators/OEMs deliver insulation & safety design, control strategies, mission planning, software platforms, and field deployment. Downstream demand comes from transmission O&M and emergency response, wind-farm maintenance, and high-altitude facility service providers. Representative upstream examples include DJI on the drone platform side, Wisson Robotics for aerial anti-icing/de-icing spraying solutions, and grid/IREQ R&D for de-

icing tools and line robotics such as Hydro-Québec's work.

The annual production capacity of a single-line Flying De-icing Robot is approximately 50 unit, with a gross profit margin of approximately 25%-45%.

This report studies the global Flying De-icing Robot production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Flying De-icing Robot 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 Flying De-icing Robot that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Flying De-icing Robot total production and demand, 2021-2032, (K Units)

Global Flying De-icing Robot total production value, 2021-2032, (USD Million)

Global Flying De-icing Robot production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Flying De-icing Robot consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Flying De-icing Robot domestic production, consumption, key domestic manufacturers and share

Global Flying De-icing Robot production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Flying De-icing Robot production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Flying De-icing Robot production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Flying De-icing Robot 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 Wisson Robotics, Dronevolt, Skylevel, Shenhao Technology, State Grid Intelligence Technology, Guozi Robotics, Daxun Intelligent Manufacturing, Guanneng Electric Power, Launch Digital, Senter Electronic, 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 Flying De-icing Robot market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) 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 Flying De-icing Robot Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Flying De-icing Robot Market, Segmentation by Type:

Mechanical

Vibration

Jet

Others

Global Flying De-icing Robot Market, Segmentation by Control Methods:

Fully Autonomous

Semi-Operation

Global Flying De-icing Robot Market, Segmentation by Application:

Transmission Lines

Wind Turbine Blades

Others

Companies Profiled:

Wisson Robotics

Dronevolt

Skylevel

Shenhao Technology

State Grid Intelligence Technology

Guozi Robotics

Daxun Intelligent Manufacturing

Guanneng Electric Power

Launch Digital

Senter Electronic

Haiende Intelligent

Huahe Technology

**Key Questions Answered:**

1. How big is the global Flying De-icing Robot market?
2. What is the demand of the global Flying De-icing Robot market?
3. What is the year over year growth of the global Flying De-icing Robot market?
4. What is the production and production value of the global Flying De-icing Robot market?
5. Who are the key producers in the global Flying De-icing Robot market?
6. What are the growth factors driving the market demand?

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