

Global UAV Variable Pitch Propeller System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global UAV Variable Pitch Propeller System market size is expected to reach \$ 2965 million by 2032, rising at a market growth of 13.5% CAGR during the forecast period (2026-2032).

A UAV Variable Pitch Propeller System is a propulsion system used in unmanned aerial vehicles (UAVs) that allows the blade pitch angle (the angle of the propeller blades) to be adjusted dynamically during flight. By changing the pitch, the system can optimize thrust, efficiency, and flight performance under different operating conditions such as takeoff, cruising, hovering, and landing. Compared with fixed-pitch propellers, variable pitch systems provide better energy efficiency, load adaptability, and flight control flexibility, especially for medium-to-large UAVs, long-endurance drones, and high-payload applications. In 2025, global UAV Variable Pitch Propeller System production reached approximately 484,000 units, with an average global market price of around US\$ 2,450 per unit. Annual production capacity is 590,000 units. Gross Profit Margin: 44%. The UAV Variable Pitch Propeller System industry chain is structured across three core layers. Upstream consists of high-performance materials (carbon fiber composites, titanium alloys), precision machining components, and key actuation systems such as servos, governors, and electronic control units. Midstream is dominated by system integrators and OEM manufacturers that design and assemble complete variable pitch propulsion systems, including companies from aerospace heritage and emerging UAV propulsion specialists. Downstream applications are concentrated in high-end UAV platforms, including military MALE/HALE drones, industrial heavy-lift UAVs, and next-generation eVTOL aircraft, where efficiency, payload flexibility, and endurance are critical performance drivers. The UAV variable pitch propeller system represents a high-value but niche segment within the broader UAV propulsion ecosystem. Its adoption is primarily driven by performance-sensitive applications rather than mass-market drones,

meaning growth is structurally linked to defense procurement, long-endurance logistics UAVs, and emerging urban air mobility platforms. Although current penetration remains limited due to cost and mechanical complexity, the long-term trajectory suggests steady expansion as UAVs move toward heavier payloads and more aviation-like operational profiles.

This report studies the global UAV Variable Pitch Propeller System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for UAV Variable Pitch Propeller System 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 UAV Variable Pitch Propeller System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global UAV Variable Pitch Propeller System total production and demand, 2021-2032, (Units)

Global UAV Variable Pitch Propeller System total production value, 2021-2032, (USD Million)

Global UAV Variable Pitch Propeller System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global UAV Variable Pitch Propeller System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: UAV Variable Pitch Propeller System domestic production, consumption, key domestic manufacturers and share

Global UAV Variable Pitch Propeller System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global UAV Variable Pitch Propeller System production by Blade Configuration, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global UAV Variable Pitch Propeller System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global UAV Variable Pitch Propeller System 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 Hartzell Propeller, Dowty Propellers, Collins Aerospace, T-Motor, Mejzlik Propellers, Sensenich Propeller, Falcon Propellers, Aerobot Avionics, Fp-Propeller, MT-Propeller, 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 UAV Variable Pitch Propeller System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Blade Configuration, 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 UAV Variable Pitch Propeller System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global UAV Variable Pitch Propeller System Market, Segmentation by Blade Configuration:

Two-Blade

Three-Blade

Multi-Blade (4+ blades)

Global UAV Variable Pitch Propeller System Market, Segmentation by Thrust Range:

Low Thrust?

Medium Thrust? 5-30 kgf

High Thrust? > 30 kgf

Global UAV Variable Pitch Propeller System Market, Segmentation by Pitch Control Mechanism:

Mechanical Linkage Variable Pitch System

Electronic Servo-Controlled Pitch System (E-Servo VPPS)

Hydraulic Variable Pitch System

Global UAV Variable Pitch Propeller System Market, Segmentation by Application:

Industrial

Logistics

Agricultural

Military

Commercial

Others

Companies Profiled:

Hartzell Propeller

Dowty Propellers

Collins Aerospace

T-Motor

Mejzlik Propellers

Sensenich Propeller

Falcon Propellers

Aerobot Avionics

Fp-Propeller

MT-Propeller

AVIC

Airmaster

Dowty

Key Questions Answered:

1. How big is the global UAV Variable Pitch Propeller System market?
2. What is the demand of the global UAV Variable Pitch Propeller System market?
3. What is the year over year growth of the global UAV Variable Pitch Propeller System market?
4. What is the production and production value of the global UAV Variable Pitch Propeller System market?
5. Who are the key producers in the global UAV Variable Pitch Propeller System market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 UAV Variable Pitch Propeller System Introduction
- 1.2 World UAV Variable Pitch Propeller System Supply & Forecast
 - 1.2.1 World UAV Variable Pitch Propeller System Production Value (2021 & 2025 & 2032)
 - 1.2.2 World UAV Variable Pitch Propeller System Production (2021-2032)
 - 1.2.3 World UAV Variable Pitch Propeller System Pricing Trends (2021-2032)
- 1.3 World UAV Variable Pitch Propeller System Production by Region (Based on Production Site)
 - 1.3.1 World UAV Variable Pitch Propeller System Production Value by Region (2021-2032)
 - 1.3.2 World UAV Variable Pitch Propeller System Production by Region (2021-2032)
 - 1.3.3 World UAV Variable Pitch Propeller System Average Price by Region (2021-2032)
 - 1.3.4 North America UAV Variable Pitch Propeller System Production (2021-2032)
 - 1.3.5 Europe UAV Variable Pitch Propeller System Production (2021-2032)
 - 1.3.6 China UAV Variable Pitch Propeller System Production (2021-2032)
 - 1.3.7 Japan UAV Variable Pitch Propeller System Production (2021-2032)
 - 1.3.8 South Korea UAV Variable Pitch Propeller System Production (2021-2032)
 - 1.3.9 Southeast Asia UAV Variable Pitch Propeller System Production (2021-2032)
 - 1.3.10 China Taiwan UAV Variable Pitch Propeller System Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 UAV Variable Pitch Propeller System Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 UAV Variable Pitch Propeller System Major Market Trends

2 DEMAND SUMMARY

- 2.1 World UAV Variable Pitch Propeller System Demand (2021-2032)
- 2.2 World UAV Variable Pitch Propeller System Consumption by Region
 - 2.2.1 World UAV Variable Pitch Propeller System Consumption by Region (2021-2026)
 - 2.2.2 World UAV Variable Pitch Propeller System Consumption Forecast by Region (2027-2032)
- 2.3 United States UAV Variable Pitch Propeller System Consumption (2021-2032)
- 2.4 China UAV Variable Pitch Propeller System Consumption (2021-2032)
- 2.5 Europe UAV Variable Pitch Propeller System Consumption (2021-2032)
- 2.6 Japan UAV Variable Pitch Propeller System Consumption (2021-2032)

2.7 South Korea UAV Variable Pitch Propeller System Consumption (2021-2032)

2.8 ASEAN UAV Variable Pitch Propeller System Consumption (2021-2032)

2.9 India UAV Variable Pitch Propeller System Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World UAV Variable Pitch Propeller System Production Value by Manufacturer (2021-2026)

3.2 World UAV Variable Pitch Propeller System Production by Manufacturer (2021-2026)

3.3 World UAV Variable Pitch Propeller System Average Price by Manufacturer (2021-2026)

3.4 UAV Variable Pitch Propeller System Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global UAV Variable Pitch Propeller System Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for UAV Variable Pitch Propeller System in 2025

3.5.3 Global Concentration Ratios (CR8) for UAV Variable Pitch Propeller System in 2025

3.6 UAV Variable Pitch Propeller System Market: Overall Company Footprint Analysis

3.6.1 UAV Variable Pitch Propeller System Market: Region Footprint

3.6.2 UAV Variable Pitch Propeller System Market: Company Product Type Footprint

3.6.3 UAV Variable Pitch Propeller System 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: UAV Variable Pitch Propeller System Production Value Comparison

4.1.1 United States VS China: UAV Variable Pitch Propeller System Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: UAV Variable Pitch Propeller System Production Value

Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: UAV Variable Pitch Propeller System Production Comparison

4.2.1 United States VS China: UAV Variable Pitch Propeller System Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: UAV Variable Pitch Propeller System Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: UAV Variable Pitch Propeller System Consumption Comparison

4.3.1 United States VS China: UAV Variable Pitch Propeller System Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: UAV Variable Pitch Propeller System Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based UAV Variable Pitch Propeller System Manufacturers and Market Share, 2021-2026

4.4.1 United States Based UAV Variable Pitch Propeller System Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers UAV Variable Pitch Propeller System Production Value (2021-2026)

4.4.3 United States Based Manufacturers UAV Variable Pitch Propeller System Production (2021-2026)

4.5 China Based UAV Variable Pitch Propeller System Manufacturers and Market Share

4.5.1 China Based UAV Variable Pitch Propeller System Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers UAV Variable Pitch Propeller System Production Value (2021-2026)

4.5.3 China Based Manufacturers UAV Variable Pitch Propeller System Production (2021-2026)

4.6 Rest of World Based UAV Variable Pitch Propeller System Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based UAV Variable Pitch Propeller System Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers UAV Variable Pitch Propeller System Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers UAV Variable Pitch Propeller System Production (2021-2026)

5 MARKET ANALYSIS BY BLADE CONFIGURATION

5.1 World UAV Variable Pitch Propeller System Market Size Overview by Blade Configuration: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Blade Configuration

5.2.1 Two-Blade

5.2.2 Three-Blade

5.2.3 Multi-Blade (4+ blades)

5.3 Market Segment by Blade Configuration

5.3.1 World UAV Variable Pitch Propeller System Production by Blade Configuration (2021-2032)

5.3.2 World UAV Variable Pitch Propeller System Production Value by Blade Configuration (2021-2032)

5.3.3 World UAV Variable Pitch Propeller System Average Price by Blade Configuration (2021-2032)

6 MARKET ANALYSIS BY THRUST RANGE

6.1 World UAV Variable Pitch Propeller System Market Size Overview by Thrust Range: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Thrust Range

6.2.1 Low Thrust?6.2.2 Medium Thrust?5?30 kgf

6.2.3 High Thrust?> 30 kgf

6.3 Market Segment by Thrust Range

6.3.1 World UAV Variable Pitch Propeller System Production by Thrust Range (2021-2032)

6.3.2 World UAV Variable Pitch Propeller System Production Value by Thrust Range (2021-2032)

6.3.3 World UAV Variable Pitch Propeller System Average Price by Thrust Range (2021-2032)

7 MARKET ANALYSIS BY PITCH CONTROL MECHANISM

7.1 World UAV Variable Pitch Propeller System Market Size Overview by Pitch Control Mechanism: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Pitch Control Mechanism

7.2.1 Mechanical Linkage Variable Pitch System

7.2.2 Electronic Servo-Controlled Pitch System (E-Servo VPPS)

7.2.3 Hydraulic Variable Pitch System

7.3 Market Segment by Pitch Control Mechanism

7.3.1 World UAV Variable Pitch Propeller System Production by Pitch Control

Mechanism (2021-2032)

7.3.2 World UAV Variable Pitch Propeller System Production Value by Pitch Control

Mechanism (2021-2032)

7.3.3 World UAV Variable Pitch Propeller System Average Price by Pitch Control

Mechanism (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World UAV Variable Pitch Propeller System Market Size Overview by Application:
2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Industrial

8.2.2 Logistics

8.2.3 Agricultural

8.2.4 Military

8.2.5 Commercial

8.2.6 Others

8.3 Market Segment by Application

8.3.1 World UAV Variable Pitch Propeller System Production by Application
(2021-2032)

8.3.2 World UAV Variable Pitch Propeller System Production Value by Application
(2021-2032)

8.3.3 World UAV Variable Pitch Propeller System Average Price by Application
(2021-2032)

9 COMPANY PROFILES

9.1 Hartzell Propeller

9.1.1 Hartzell Propeller Details

9.1.2 Hartzell Propeller Major Business

9.1.3 Hartzell Propeller UAV Variable Pitch Propeller System Product and Services

9.1.4 Hartzell Propeller UAV Variable Pitch Propeller System Production, Price, Value,
Gross Margin and Market Share (2021-2026)

9.1.5 Hartzell Propeller Recent Developments/Updates

9.1.6 Hartzell Propeller Competitive Strengths & Weaknesses

9.2 Dowty Propellers

9.2.1 Dowty Propellers Details

9.2.2 Dowty Propellers Major Business

9.2.3 Dowty Propellers UAV Variable Pitch Propeller System Product and Services

- 9.2.4 Dowty Propellers UAV Variable Pitch Propeller System Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 Dowty Propellers Recent Developments/Updates
- 9.2.6 Dowty Propellers Competitive Strengths & Weaknesses
- 9.3 Collins Aerospace
 - 9.3.1 Collins Aerospace Details
 - 9.3.2 Collins Aerospace Major Business
 - 9.3.3 Collins Aerospace UAV Variable Pitch Propeller System Product and Services
 - 9.3.4 Collins Aerospace UAV Variable Pitch Propeller System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Collins Aerospace Recent Developments/Updates
 - 9.3.6 Collins Aerospace Competitive Strengths & Weaknesses
- 9.4 T-Motor
 - 9.4.1 T-Motor Details
 - 9.4.2 T-Motor Major Business
 - 9.4.3 T-Motor UAV Variable Pitch Propeller System Product and Services
 - 9.4.4 T-Motor UAV Variable Pitch Propeller System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 T-Motor Recent Developments/Updates
 - 9.4.6 T-Motor Competitive Strengths & Weaknesses
- 9.5 Mejlzlik Propellers
 - 9.5.1 Mejlzlik Propellers Details
 - 9.5.2 Mejlzlik Propellers Major Business
 - 9.5.3 Mejlzlik Propellers UAV Variable Pitch Propeller System Product and Services
 - 9.5.4 Mejlzlik Propellers UAV Variable Pitch Propeller System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Mejlzlik Propellers Recent Developments/Updates
 - 9.5.6 Mejlzlik Propellers Competitive Strengths & Weaknesses
- 9.6 Sensenich Propeller
 - 9.6.1 Sensenich Propeller Details
 - 9.6.2 Sensenich Propeller Major Business
 - 9.6.3 Sensenich Propeller UAV Variable Pitch Propeller System Product and Services
 - 9.6.4 Sensenich Propeller UAV Variable Pitch Propeller System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Sensenich Propeller Recent Developments/Updates
 - 9.6.6 Sensenich Propeller Competitive Strengths & Weaknesses
- 9.7 Falcon Propellers
 - 9.7.1 Falcon Propellers Details
 - 9.7.2 Falcon Propellers Major Business

- 9.7.3 Falcon Propellers UAV Variable Pitch Propeller System Product and Services
- 9.7.4 Falcon Propellers UAV Variable Pitch Propeller System Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.7.5 Falcon Propellers Recent Developments/Updates
- 9.7.6 Falcon Propellers Competitive Strengths & Weaknesses
- 9.8 Aerobot Avionics
 - 9.8.1 Aerobot Avionics Details
 - 9.8.2 Aerobot Avionics Major Business
 - 9.8.3 Aerobot Avionics UAV Variable Pitch Propeller System Product and Services
 - 9.8.4 Aerobot Avionics UAV Variable Pitch Propeller System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Aerobot Avionics Recent Developments/Updates
 - 9.8.6 Aerobot Avionics Competitive Strengths & Weaknesses
- 9.9 Fp-Propeller
 - 9.9.1 Fp-Propeller Details
 - 9.9.2 Fp-Propeller Major Business
 - 9.9.3 Fp-Propeller UAV Variable Pitch Propeller System Product and Services
 - 9.9.4 Fp-Propeller UAV Variable Pitch Propeller System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Fp-Propeller Recent Developments/Updates
 - 9.9.6 Fp-Propeller Competitive Strengths & Weaknesses
- 9.10 MT-Propeller
 - 9.10.1 MT-Propeller Details
 - 9.10.2 MT-Propeller Major Business
 - 9.10.3 MT-Propeller UAV Variable Pitch Propeller System Product and Services
 - 9.10.4 MT-Propeller UAV Variable Pitch Propeller System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 MT-Propeller Recent Developments/Updates
 - 9.10.6 MT-Propeller Competitive Strengths & Weaknesses
- 9.11 AVIC
 - 9.11.1 AVIC Details
 - 9.11.2 AVIC Major Business
 - 9.11.3 AVIC UAV Variable Pitch Propeller System Product and Services
 - 9.11.4 AVIC UAV Variable Pitch Propeller System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 AVIC Recent Developments/Updates
 - 9.11.6 AVIC Competitive Strengths & Weaknesses
- 9.12 Airmaster
 - 9.12.1 Airmaster Details

9.12.2 Airmaster Major Business

9.12.3 Airmaster UAV Variable Pitch Propeller System Product and Services

9.12.4 Airmaster UAV Variable Pitch Propeller System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Airmaster Recent Developments/Updates

9.12.6 Airmaster Competitive Strengths & Weaknesses

9.13 Dowty

9.13.1 Dowty Details

9.13.2 Dowty Major Business

9.13.3 Dowty UAV Variable Pitch Propeller System Product and Services

9.13.4 Dowty UAV Variable Pitch Propeller System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Dowty Recent Developments/Updates

9.13.6 Dowty Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 UAV Variable Pitch Propeller System Industry Chain

10.2 UAV Variable Pitch Propeller System Upstream Analysis

10.2.1 UAV Variable Pitch Propeller System Core Raw Materials

10.2.2 Main Manufacturers of UAV Variable Pitch Propeller System Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 UAV Variable Pitch Propeller System Production Mode

10.6 UAV Variable Pitch Propeller System Procurement Model

10.7 UAV Variable Pitch Propeller System Industry Sales Model and Sales Channels

10.7.1 UAV Variable Pitch Propeller System Sales Model

10.7.2 UAV Variable Pitch Propeller System Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World UAV Variable Pitch Propeller System Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World UAV Variable Pitch Propeller System Production Value by Region (2021-2026) & (USD Million)

Table 3. World UAV Variable Pitch Propeller System Production Value by Region (2027-2032) & (USD Million)

Table 4. World UAV Variable Pitch Propeller System Production Value Market Share by Region (2021-2026)

Table 5. World UAV Variable Pitch Propeller System Production Value Market Share by Region (2027-2032)

Table 6. World UAV Variable Pitch Propeller System Production by Region (2021-2026) & (Units)

Table 7. World UAV Variable Pitch Propeller System Production by Region (2027-2032) & (Units)

Table 8. World UAV Variable Pitch Propeller System Production Market Share by Region (2021-2026)

Table 9. World UAV Variable Pitch Propeller System Production Market Share by Region (2027-2032)

Table 10. World UAV Variable Pitch Propeller System Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World UAV Variable Pitch Propeller System Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. UAV Variable Pitch Propeller System Major Market Trends

Table 13. World UAV Variable Pitch Propeller System Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World UAV Variable Pitch Propeller System Consumption by Region (2021-2026) & (Units)

Table 15. World UAV Variable Pitch Propeller System Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World UAV Variable Pitch Propeller System Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key UAV Variable Pitch Propeller System Producers in 2025

Table 18. World UAV Variable Pitch Propeller System Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key UAV Variable Pitch Propeller System Producers in 2025

Table 20. World UAV Variable Pitch Propeller System Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global UAV Variable Pitch Propeller System Company Evaluation Quadrant

Table 22. World UAV Variable Pitch Propeller System Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and UAV Variable Pitch Propeller System Production Site of Key Manufacturer

Table 24. UAV Variable Pitch Propeller System Market: Company Product Type Footprint

Table 25. UAV Variable Pitch Propeller System Market: Company Product Application Footprint

Table 26. UAV Variable Pitch Propeller System Competitive Factors

Table 27. UAV Variable Pitch Propeller System New Entrant and Capacity Expansion Plans

Table 28. UAV Variable Pitch Propeller System Mergers & Acquisitions Activity

Table 29. United States VS China UAV Variable Pitch Propeller System Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China UAV Variable Pitch Propeller System Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China UAV Variable Pitch Propeller System Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based UAV Variable Pitch Propeller System Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers UAV Variable Pitch Propeller System Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers UAV Variable Pitch Propeller System Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers UAV Variable Pitch Propeller System Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers UAV Variable Pitch Propeller System Production Market Share (2021-2026)

Table 37. China Based UAV Variable Pitch Propeller System Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers UAV Variable Pitch Propeller System Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers UAV Variable Pitch Propeller System Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers UAV Variable Pitch Propeller System Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers UAV Variable Pitch Propeller System Production Market Share (2021-2026)

Table 42. Rest of World Based UAV Variable Pitch Propeller System Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers UAV Variable Pitch Propeller System Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers UAV Variable Pitch Propeller System Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers UAV Variable Pitch Propeller System Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers UAV Variable Pitch Propeller System Production Market Share (2021-2026)

Table 47. World UAV Variable Pitch Propeller System Production Value by Blade Configuration, (USD Million), 2021 & 2025 & 2032

Table 48. World UAV Variable Pitch Propeller System Production by Blade Configuration (2021-2026) & (Units)

Table 49. World UAV Variable Pitch Propeller System Production by Blade Configuration (2027-2032) & (Units)

Table 50. World UAV Variable Pitch Propeller System Production Value by Blade Configuration (2021-2026) & (USD Million)

Table 51. World UAV Variable Pitch Propeller System Production Value by Blade Configuration (2027-2032) & (USD Million)

Table 52. World UAV Variable Pitch Propeller System Average Price by Blade Configuration (2021-2026) & (US\$/Unit)

Table 53. World UAV Variable Pitch Propeller System Average Price by Blade Configuration (2027-2032) & (US\$/Unit)

Table 54. World UAV Variable Pitch Propeller System Production Value by Thrust Range, (USD Million), 2021 & 2025 & 2032

Table 55. World UAV Variable Pitch Propeller System Production by Thrust Range (2021-2026) & (Units)

Table 56. World UAV Variable Pitch Propeller System Production by Thrust Range (2027-2032) & (Units)

Table 57. World UAV Variable Pitch Propeller System Production Value by Thrust Range (2021-2026) & (USD Million)

Table 58. World UAV Variable Pitch Propeller System Production Value by Thrust Range (2027-2032) & (USD Million)

Table 59. World UAV Variable Pitch Propeller System Average Price by Thrust Range

(2021-2026) & (US\$/Unit)

Table 60. World UAV Variable Pitch Propeller System Average Price by Thrust Range (2027-2032) & (US\$/Unit)

Table 61. World UAV Variable Pitch Propeller System Production Value by Pitch Control Mechanism, (USD Million), 2021 & 2025 & 2032

Table 62. World UAV Variable Pitch Propeller System Production by Pitch Control Mechanism (2021-2026) & (Units)

Table 63. World UAV Variable Pitch Propeller System Production by Pitch Control Mechanism (2027-2032) & (Units)

Table 64. World UAV Variable Pitch Propeller System Production Value by Pitch Control Mechanism (2021-2026) & (USD Million)

Table 65. World UAV Variable Pitch Propeller System Production Value by Pitch Control Mechanism (2027-2032) & (USD Million)

Table 66. World UAV Variable Pitch Propeller System Average Price by Pitch Control Mechanism (2021-2026) & (US\$/Unit)

Table 67. World UAV Variable Pitch Propeller System Average Price by Pitch Control Mechanism (2027-2032) & (US\$/Unit)

Table 68. World UAV Variable Pitch Propeller System Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World UAV Variable Pitch Propeller System Production by Application (2021-2026) & (Units)

Table 70. World UAV Variable Pitch Propeller System Production by Application (2027-2032) & (Units)

Table 71. World UAV Variable Pitch Propeller System Production Value by Application (2021-2026) & (USD Million)

Table 72. World UAV Variable Pitch Propeller System Production Value by Application (2027-2032) & (USD Million)

Table 73. World UAV Variable Pitch Propeller System Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World UAV Variable Pitch Propeller System Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Hartzell Propeller Basic Information, Manufacturing Base and Competitors

Table 76. Hartzell Propeller Major Business

Table 77. Hartzell Propeller UAV Variable Pitch Propeller System Product and Services

Table 78. Hartzell Propeller UAV Variable Pitch Propeller System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Hartzell Propeller Recent Developments/Updates

Table 80. Hartzell Propeller Competitive Strengths & Weaknesses

Table 81. Dowty Propellers Basic Information, Manufacturing Base and Competitors

Table 82. Dowty Propellers Major Business

Table 83. Dowty Propellers UAV Variable Pitch Propeller System Product and Services

Table 84. Dowty Propellers UAV Variable Pitch Propeller System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Dowty Propellers Recent Developments/Updates

Table 86. Dowty Propellers Competitive Strengths & Weaknesses

Table 87. Collins Aerospace Basic Information, Manufacturing Base and Competitors

Table 88. Collins Aerospace Major Business

Table 89. Collins Aerospace UAV Variable Pitch Propeller System Product and Services

Table 90. Collins Aerospace UAV Variable Pitch Propeller System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Collins Aerospace Recent Developments/Updates

Table 92. Collins Aerospace Competitive Strengths & Weaknesses

Table 93. T-Motor Basic Information, Manufacturing Base and Competitors

Table 94. T-Motor Major Business

Table 95. T-Motor UAV Variable Pitch Propeller System Product and Services

Table 96. T-Motor UAV Variable Pitch Propeller System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. T-Motor Recent Developments/Updates

Table 98. T-Motor Competitive Strengths & Weaknesses

Table 99. Mejlzlik Propellers Basic Information, Manufacturing Base and Competitors

Table 100. Mejlzlik Propellers Major Business

Table 101. Mejlzlik Propellers UAV Variable Pitch Propeller System Product and Services

Table 102. Mejlzlik Propellers UAV Variable Pitch Propeller System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Mejlzlik Propellers Recent Developments/Updates

Table 104. Mejlzlik Propellers Competitive Strengths & Weaknesses

Table 105. Sensenich Propeller Basic Information, Manufacturing Base and Competitors

Table 106. Sensenich Propeller Major Business

Table 107. Sensenich Propeller UAV Variable Pitch Propeller System Product and Services

Table 108. Sensenich Propeller UAV Variable Pitch Propeller System Production

(Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Sensenich Propeller Recent Developments/Updates

Table 110. Sensenich Propeller Competitive Strengths & Weaknesses

Table 111. Falcon Propellers Basic Information, Manufacturing Base and Competitors

Table 112. Falcon Propellers Major Business

Table 113. Falcon Propellers UAV Variable Pitch Propeller System Product and Services

Table 114. Falcon Propellers UAV Variable Pitch Propeller System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Falcon Propellers Recent Developments/Updates

Table 116. Falcon Propellers Competitive Strengths & Weaknesses

Table 117. Aerobot Avionics Basic Information, Manufacturing Base and Competitors

Table 118. Aerobot Avionics Major Business

Table 119. Aerobot Avionics UAV Variable Pitch Propeller System Product and Services

Table 120. Aerobot Avionics UAV Variable Pitch Propeller System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Aerobot Avionics Recent Developments/Updates

Table 122. Aerobot Avionics Competitive Strengths & Weaknesses

Table 123. Fp-Propeller Basic Information, Manufacturing Base and Competitors

Table 124. Fp-Propeller Major Business

Table 125. Fp-Propeller UAV Variable Pitch Propeller System Product and Services

Table 126. Fp-Propeller UAV Variable Pitch Propeller System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Fp-Propeller Recent Developments/Updates

Table 128. Fp-Propeller Competitive Strengths & Weaknesses

Table 129. MT-Propeller Basic Information, Manufacturing Base and Competitors

Table 130. MT-Propeller Major Business

Table 131. MT-Propeller UAV Variable Pitch Propeller System Product and Services

Table 132. MT-Propeller UAV Variable Pitch Propeller System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. MT-Propeller Recent Developments/Updates

Table 134. MT-Propeller Competitive Strengths & Weaknesses

Table 135. AVIC Basic Information, Manufacturing Base and Competitors

Table 136. AVIC Major Business

Table 137. AVIC UAV Variable Pitch Propeller System Product and Services

Table 138. AVIC UAV Variable Pitch Propeller System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. AVIC Recent Developments/Updates

Table 140. AVIC Competitive Strengths & Weaknesses

Table 141. Airmaster Basic Information, Manufacturing Base and Competitors

Table 142. Airmaster Major Business

Table 143. Airmaster UAV Variable Pitch Propeller System Product and Services

Table 144. Airmaster UAV Variable Pitch Propeller System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Airmaster Recent Developments/Updates

Table 146. Airmaster Competitive Strengths & Weaknesses

Table 147. Dowty Basic Information, Manufacturing Base and Competitors

Table 148. Dowty Major Business

Table 149. Dowty UAV Variable Pitch Propeller System Product and Services

Table 150. Dowty UAV Variable Pitch Propeller System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Dowty Recent Developments/Updates

Table 152. Dowty Competitive Strengths & Weaknesses

Table 153. Global Key Players of UAV Variable Pitch Propeller System Upstream (Raw Materials)

Table 154. Global UAV Variable Pitch Propeller System Typical Customers

Table 155. UAV Variable Pitch Propeller System Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. UAV Variable Pitch Propeller System Picture
- Figure 2. World UAV Variable Pitch Propeller System Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World UAV Variable Pitch Propeller System Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World UAV Variable Pitch Propeller System Production (2021-2032) & (Units)
- Figure 5. World UAV Variable Pitch Propeller System Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World UAV Variable Pitch Propeller System Production Value Market Share by Region (2021-2032)
- Figure 7. World UAV Variable Pitch Propeller System Production Market Share by Region (2021-2032)
- Figure 8. North America UAV Variable Pitch Propeller System Production (2021-2032) & (Units)
- Figure 9. Europe UAV Variable Pitch Propeller System Production (2021-2032) & (Units)
- Figure 10. China UAV Variable Pitch Propeller System Production (2021-2032) & (Units)
- Figure 11. Japan UAV Variable Pitch Propeller System Production (2021-2032) & (Units)
- Figure 12. South Korea UAV Variable Pitch Propeller System Production (2021-2032) & (Units)
- Figure 13. Southeast Asia UAV Variable Pitch Propeller System Production (2021-2032) & (Units)
- Figure 14. China Taiwan UAV Variable Pitch Propeller System Production (2021-2032) & (Units)
- Figure 15. UAV Variable Pitch Propeller System Market Drivers
- Figure 16. Factors Affecting Demand
- Figure 17. World UAV Variable Pitch Propeller System Consumption (2021-2032) & (Units)
- Figure 18. World UAV Variable Pitch Propeller System Consumption Market Share by Region (2021-2032)
- Figure 19. United States UAV Variable Pitch Propeller System Consumption (2021-2032) & (Units)
- Figure 20. China UAV Variable Pitch Propeller System Consumption (2021-2032) &

(Units)

Figure 21. Europe UAV Variable Pitch Propeller System Consumption (2021-2032) & (Units)

Figure 22. Japan UAV Variable Pitch Propeller System Consumption (2021-2032) & (Units)

Figure 23. South Korea UAV Variable Pitch Propeller System Consumption (2021-2032) & (Units)

Figure 24. ASEAN UAV Variable Pitch Propeller System Consumption (2021-2032) & (Units)

Figure 25. India UAV Variable Pitch Propeller System Consumption (2021-2032) & (Units)

Figure 26. Producer Shipments of UAV Variable Pitch Propeller System by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for UAV Variable Pitch Propeller System Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for UAV Variable Pitch Propeller System Markets in 2025

Figure 29. United States VS China: UAV Variable Pitch Propeller System Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: UAV Variable Pitch Propeller System Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: UAV Variable Pitch Propeller System Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers UAV Variable Pitch Propeller System Production Market Share 2025

Figure 33. China Based Manufacturers UAV Variable Pitch Propeller System Production Market Share 2025

Figure 34. Rest of World Based Manufacturers UAV Variable Pitch Propeller System Production Market Share 2025

Figure 35. World UAV Variable Pitch Propeller System Production Value by Blade Configuration, (USD Million), 2021 & 2025 & 2032

Figure 36. World UAV Variable Pitch Propeller System Production Value Market Share by Blade Configuration in 2025

Figure 37. Two-Blade

Figure 38. Three-Blade

Figure 39. Multi-Blade (4+ blades)

Figure 40. World UAV Variable Pitch Propeller System Production Market Share by Blade Configuration (2021-2032)

Figure 41. World UAV Variable Pitch Propeller System Production Value Market Share

by Blade Configuration (2021-2032)

Figure 42. World UAV Variable Pitch Propeller System Average Price by Blade Configuration (2021-2032) & (US\$/Unit)

Figure 43. World UAV Variable Pitch Propeller System Production Value by Thrust Range, (USD Million), 2021 & 2025 & 2032

Figure 44. World UAV Variable Pitch Propeller System Production Value Market Share by Thrust Range in 2025

Figure 45. Low Thrust? Figure 46. Medium Thrust? 5?30 kgf

Figure 47. High Thrust? > 30 kgf

Figure 48. World UAV Variable Pitch Propeller System Production Market Share by Thrust Range (2021-2032)

Figure 49. World UAV Variable Pitch Propeller System Production Value Market Share by Thrust Range (2021-2032)

Figure 50. World UAV Variable Pitch Propeller System Average Price by Thrust Range (2021-2032) & (US\$/Unit)

Figure 51. World UAV Variable Pitch Propeller System Production Value by Pitch Control Mechanism, (USD Million), 2021 & 2025 & 2032

Figure 52. World UAV Variable Pitch Propeller System Production Value Market Share by Pitch Control Mechanism in 2025

Figure 53. Mechanical Linkage Variable Pitch System

Figure 54. Electronic Servo-Controlled Pitch System (E-Servo VPPS)

Figure 55. Hydraulic Variable Pitch System

Figure 56. World UAV Variable Pitch Propeller System Production Market Share by Pitch Control Mechanism (2021-2032)

Figure 57. World UAV Variable Pitch Propeller System Production Value Market Share by Pitch Control Mechanism (2021-2032)

Figure 58. World UAV Variable Pitch Propeller System Average Price by Pitch Control Mechanism (2021-2032) & (US\$/Unit)

Figure 59. World UAV Variable Pitch Propeller System Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 60. World UAV Variable Pitch Propeller System Production Value Market Share by Application in 2025

Figure 61. Industrial

Figure 62. Logistics

Figure 63. Agricultural

Figure 64. Military

Figure 65. Commercial

Figure 66. Others

Figure 67. World UAV Variable Pitch Propeller System Production Market Share by

Application (2021-2032)

Figure 68. World UAV Variable Pitch Propeller System Production Value Market Share by Application (2021-2032)

Figure 69. World UAV Variable Pitch Propeller System Average Price by Application (2021-2032) & (US\$/Unit)

Figure 70. UAV Variable Pitch Propeller System Industry Chain

Figure 71. UAV Variable Pitch Propeller System Procurement Model

Figure 72. UAV Variable Pitch Propeller System Sales Model

Figure 73. UAV Variable Pitch Propeller System Sales Channels, Direct Sales, and Distribution

Figure 74. Methodology

Figure 75. Research Process and Data Source

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