

Global External Rotor Centrifugal Fan Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global External Rotor Centrifugal Fan market size is expected to reach \$ 1613 million by 2032, rising at a market growth of 3.8% CAGR during the forecast period (2026-2032).

An external rotor centrifugal fan is a ventilation and pressure-boosting component that integrates an external rotor motor, centrifugal impeller, support structure, control electronics, and an optional scroll housing or mounting frame into one compact aerodynamic unit. It is mainly designed to address limited internal equipment space, combined airflow and static pressure requirements, increasing noise-control expectations, tighter energy-efficiency standards, and rising demand for intelligent speed regulation in finished equipment. These products typically use AC external rotor motors, EC external rotor motors, or DC brushless external rotor motors to directly drive forward-curved, backward-curved, or radial centrifugal impellers. By integrating the motor rotor and impeller on the same axis, they reduce transmission losses and enable higher efficiency, wider speed regulation, and more stable operation through electronic commutation, analog speed control, PWM control, serial communication, constant-airflow control, constant-pressure control, and thermal protection. Product forms include centrifugal blowers with scroll housings, scroll-free backward-curved centrifugal fans, plug fans, double-inlet centrifugal fans, EC fan modules, and customized fan assemblies for OEM customers. Common materials include galvanized steel sheet, aluminum alloy, engineering plastics, stainless steel, and composite materials. Typical applications are concentrated in HVAC, air handling units, heat pumps, cold-chain refrigeration, air purification, cleanrooms, data center cooling, energy storage and power electronics cooling, industrial equipment ventilation, rail transit, and automotive thermal management. Main customers include HVAC equipment manufacturers, refrigeration equipment manufacturers, air purifier manufacturers, vehicle thermal

management system suppliers, data center infrastructure equipment manufacturers, and industrial equipment producers.

The industrial value of external rotor centrifugal fans is shifting from a single air-moving component to an efficient, compact, and controllable aerodynamic actuator. Conventional centrifugal fans relying on separate motors, belts, or couplings face limitations in equipment space, noise, maintenance, and part-load efficiency. By contrast, the external rotor structure highly integrates the motor and impeller, allowing the motor rotor to directly drive the impeller, reducing intermediate transmission elements, and improving power density per unit volume. As HVAC, heat pump, refrigeration, air purification, and data center equipment continue to raise requirements for energy efficiency, noise control, and installation space, competition in external rotor centrifugal fans is no longer limited to airflow and static pressure. It increasingly depends on overall efficiency, control interfaces, reliability, acoustic performance, installation compatibility, and system-level matching. EC external rotor products further integrate electronic commutation and speed control into the fan body, enabling higher efficiency under variable loads and supporting the needs of smart buildings, industrial controls, and remote equipment monitoring.

In terms of product structure, external rotor centrifugal fans have developed multiple routes, including forward-curved, backward-curved, single-inlet, double-inlet, scroll-housed, scroll-free, and plug-in module configurations. Forward-curved impellers are generally used for compact blowing, low-noise air supply, and double-inlet structures, while backward-curved impellers are more commonly used for higher-efficiency air handling, scroll-free plug-in installation, and medium-to-high pressure equipment scenarios. Different applications place differentiated requirements on materials and control capabilities. HVAC focuses more on efficiency and noise, cold-chain refrigeration emphasizes low-temperature performance and continuous operation, data centers and communication equipment prioritize reliability, speed control, and redundancy, vehicle thermal management values protection rating, vibration resistance, and temperature adaptability, and clean environments require stable airflow and integration with clean air systems. Since downstream equipment manufacturers usually embed fans into their own structures, the business model is mainly a combination of standard product lines and OEM customization. Suppliers therefore need comprehensive capabilities in motor design, impeller aerodynamics, electronic control, noise testing, and mass production.

From a regional perspective, the external rotor centrifugal fan industry shows a pattern in which European high-end technical accumulation and Asian scale manufacturing

coexist. European manufacturers maintain strong influence in high-efficiency EC motors, low-noise impellers, systematic fan modules, and high-end HVAC applications. Japanese companies have a foundation in precision motors and small fans, while the supply chains in mainland China and Taiwan have developed relatively complete capabilities in external rotor motors, EC fans, refrigeration fans, HVAC supporting products, and OEM exports. Future growth will mainly come from four sources. The first is high-efficiency fan replacement driven by building energy efficiency and upgrades of existing HVAC equipment. The second is standard product demand generated by heat pumps, cold-chain equipment, and air purification equipment. The third is demand for high-reliability fans used in data centers, energy storage, and power electronics cooling. The fourth is customized centrifugal blower demand from new energy vehicles and rail transit thermal management. Overall, the industry will continue to upgrade toward higher efficiency, lower noise, intelligent control, modular delivery, and application-specific customization.

This report studies the global External Rotor Centrifugal Fan production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for External Rotor Centrifugal Fan 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 External Rotor Centrifugal Fan that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global External Rotor Centrifugal Fan total production and demand, 2021-2032, (K Units)

Global External Rotor Centrifugal Fan total production value, 2021-2032, (USD Million)

Global External Rotor Centrifugal Fan production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global External Rotor Centrifugal Fan consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: External Rotor Centrifugal Fan domestic production, consumption, key domestic manufacturers and share

Global External Rotor Centrifugal Fan production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global External Rotor Centrifugal Fan production by Blade Shape, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global External Rotor Centrifugal Fan production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global External Rotor Centrifugal Fan 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 ebmpapst, Ziehl-Abegg, Rosenberg Ventilatoren GmbH, Spal Srl, Ecofit, Nidec Corporation, Greenheck Fan, Johnson Electric, GMCC&Welling, Changzhou Xiangming, 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 External Rotor Centrifugal Fan 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 Blade Shape, 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 External Rotor Centrifugal Fan Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global External Rotor Centrifugal Fan Market, Segmentation by Blade Shape:

Forward Curved Blade

Backward Curved Blade

Radial Blade

Other

Global External Rotor Centrifugal Fan Market, Segmentation by Inlet Method:

Single Inlet

Double Inlet

Other

Global External Rotor Centrifugal Fan Market, Segmentation by Housing Structure:

Scroll Housing Structure

Scroll-Free Structure

Global External Rotor Centrifugal Fan Market, Segmentation by Application:

HVAC Equipment Support

Refrigeration and Cold Chain Equipment Support

Data Center and Communications Cooling

Other

Companies Profiled:

ebmpapst

Ziehl-Abegg

Rosenberg Ventilatoren GmbH

Spal Srl

Ecofit

Nidec Corporation

Greenheck Fan

Johnson Electric

GMCC&Welling

Changzhou Xiangming

Zhongshan Broad?Ocean Motor

Fans-tech Electrical

Hangzhou Weiguang

Zhejiang Langdi Group

SHYUAN YA

Howden

Nicotra

Kruger

Halifax

Fandis S.p.A.

Cutes Corporation

Hangzhou Airflow Electric Appliances Co., Ltd.

Wolong Electric Group Co., Ltd.

Longwell Electric Technology Co., Ltd.

Zhejiang Maer Fan Co., Ltd.

Zhejiang Lion King Ventilator Co., Ltd.

Airt?cnics

Blauberg Motoren

Key Questions Answered:

1. How big is the global External Rotor Centrifugal Fan market?
2. What is the demand of the global External Rotor Centrifugal Fan market?
3. What is the year over year growth of the global External Rotor Centrifugal Fan market?
4. What is the production and production value of the global External Rotor Centrifugal Fan market?
5. Who are the key producers in the global External Rotor Centrifugal Fan market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World External Rotor Centrifugal Fan Demand (2021-2032)
- 2.2 World External Rotor Centrifugal Fan Consumption by Region
 - 2.2.1 World External Rotor Centrifugal Fan Consumption by Region (2021-2026)
 - 2.2.2 World External Rotor Centrifugal Fan Consumption Forecast by Region (2027-2032)
- 2.3 United States External Rotor Centrifugal Fan Consumption (2021-2032)
- 2.4 China External Rotor Centrifugal Fan Consumption (2021-2032)
- 2.5 Europe External Rotor Centrifugal Fan Consumption (2021-2032)
- 2.6 Japan External Rotor Centrifugal Fan Consumption (2021-2032)
- 2.7 South Korea External Rotor Centrifugal Fan Consumption (2021-2032)
- 2.8 ASEAN External Rotor Centrifugal Fan Consumption (2021-2032)
- 2.9 India External Rotor Centrifugal Fan Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World External Rotor Centrifugal Fan Production Value by Manufacturer (2021-2026)
- 3.2 World External Rotor Centrifugal Fan Production by Manufacturer (2021-2026)
- 3.3 World External Rotor Centrifugal Fan Average Price by Manufacturer (2021-2026)
- 3.4 External Rotor Centrifugal Fan Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global External Rotor Centrifugal Fan Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for External Rotor Centrifugal Fan in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for External Rotor Centrifugal Fan in 2025
- 3.6 External Rotor Centrifugal Fan Market: Overall Company Footprint Analysis
 - 3.6.1 External Rotor Centrifugal Fan Market: Region Footprint
 - 3.6.2 External Rotor Centrifugal Fan Market: Company Product Type Footprint
 - 3.6.3 External Rotor Centrifugal Fan 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: External Rotor Centrifugal Fan Production Value Comparison
 - 4.1.1 United States VS China: External Rotor Centrifugal Fan Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: External Rotor Centrifugal Fan Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: External Rotor Centrifugal Fan Production Comparison
 - 4.2.1 United States VS China: External Rotor Centrifugal Fan Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: External Rotor Centrifugal Fan Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: External Rotor Centrifugal Fan Consumption Comparison
 - 4.3.1 United States VS China: External Rotor Centrifugal Fan Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: External Rotor Centrifugal Fan Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based External Rotor Centrifugal Fan Manufacturers and Market Share, 2021-2026

4.4.1 United States Based External Rotor Centrifugal Fan Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers External Rotor Centrifugal Fan Production Value (2021-2026)

4.4.3 United States Based Manufacturers External Rotor Centrifugal Fan Production (2021-2026)

4.5 China Based External Rotor Centrifugal Fan Manufacturers and Market Share

4.5.1 China Based External Rotor Centrifugal Fan Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers External Rotor Centrifugal Fan Production Value (2021-2026)

4.5.3 China Based Manufacturers External Rotor Centrifugal Fan Production (2021-2026)

4.6 Rest of World Based External Rotor Centrifugal Fan Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based External Rotor Centrifugal Fan Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers External Rotor Centrifugal Fan Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers External Rotor Centrifugal Fan Production (2021-2026)

5 MARKET ANALYSIS BY BLADE SHAPE

5.1 World External Rotor Centrifugal Fan Market Size Overview by Blade Shape: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Blade Shape

5.2.1 Forward Curved Blade

5.2.2 Backward Curved Blade

5.2.3 Radial Blade

5.2.4 Other

5.3 Market Segment by Blade Shape

5.3.1 World External Rotor Centrifugal Fan Production by Blade Shape (2021-2032)

5.3.2 World External Rotor Centrifugal Fan Production Value by Blade Shape (2021-2032)

5.3.3 World External Rotor Centrifugal Fan Average Price by Blade Shape (2021-2032)

6 MARKET ANALYSIS BY INLET METHOD

6.1 World External Rotor Centrifugal Fan Market Size Overview by Inlet Method: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Inlet Method

6.2.1 Single Inlet

6.2.2 Double Inlet

6.2.3 Other

6.3 Market Segment by Inlet Method

6.3.1 World External Rotor Centrifugal Fan Production by Inlet Method (2021-2032)

6.3.2 World External Rotor Centrifugal Fan Production Value by Inlet Method (2021-2032)

6.3.3 World External Rotor Centrifugal Fan Average Price by Inlet Method (2021-2032)

7 MARKET ANALYSIS BY HOUSING STRUCTURE

7.1 World External Rotor Centrifugal Fan Market Size Overview by Housing Structure: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Housing Structure

7.2.1 Scroll Housing Structure

7.2.2 Scroll-Free Structure

7.3 Market Segment by Housing Structure

7.3.1 World External Rotor Centrifugal Fan Production by Housing Structure (2021-2032)

7.3.2 World External Rotor Centrifugal Fan Production Value by Housing Structure (2021-2032)

7.3.3 World External Rotor Centrifugal Fan Average Price by Housing Structure (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World External Rotor Centrifugal Fan Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 HVAC Equipment Support

8.2.2 Refrigeration and Cold Chain Equipment Support

8.2.3 Data Center and Communications Cooling

8.2.4 Other

8.3 Market Segment by Application

8.3.1 World External Rotor Centrifugal Fan Production by Application (2021-2032)

8.3.2 World External Rotor Centrifugal Fan Production Value by Application (2021-2032)

8.3.3 World External Rotor Centrifugal Fan Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 ebmpapst

9.1.1 ebmpapst Details

9.1.2 ebmpapst Major Business

9.1.3 ebmpapst External Rotor Centrifugal Fan Product and Services

9.1.4 ebmpapst External Rotor Centrifugal Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 ebmpapst Recent Developments/Updates

9.1.6 ebmpapst Competitive Strengths & Weaknesses

9.2 Ziehl-Abegg

9.2.1 Ziehl-Abegg Details

9.2.2 Ziehl-Abegg Major Business

9.2.3 Ziehl-Abegg External Rotor Centrifugal Fan Product and Services

9.2.4 Ziehl-Abegg External Rotor Centrifugal Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Ziehl-Abegg Recent Developments/Updates

9.2.6 Ziehl-Abegg Competitive Strengths & Weaknesses

9.3 Rosenberg Ventilatoren GmbH

9.3.1 Rosenberg Ventilatoren GmbH Details

9.3.2 Rosenberg Ventilatoren GmbH Major Business

9.3.3 Rosenberg Ventilatoren GmbH External Rotor Centrifugal Fan Product and Services

9.3.4 Rosenberg Ventilatoren GmbH External Rotor Centrifugal Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Rosenberg Ventilatoren GmbH Recent Developments/Updates

9.3.6 Rosenberg Ventilatoren GmbH Competitive Strengths & Weaknesses

9.4 Spal Srl

9.4.1 Spal Srl Details

9.4.2 Spal Srl Major Business

9.4.3 Spal Srl External Rotor Centrifugal Fan Product and Services

9.4.4 Spal Srl External Rotor Centrifugal Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.4.5 Spal Srl Recent Developments/Updates
- 9.4.6 Spal Srl Competitive Strengths & Weaknesses
- 9.5 Ecofit
 - 9.5.1 Ecofit Details
 - 9.5.2 Ecofit Major Business
 - 9.5.3 Ecofit External Rotor Centrifugal Fan Product and Services
 - 9.5.4 Ecofit External Rotor Centrifugal Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Ecofit Recent Developments/Updates
 - 9.5.6 Ecofit Competitive Strengths & Weaknesses
- 9.6 Nidec Corporation
 - 9.6.1 Nidec Corporation Details
 - 9.6.2 Nidec Corporation Major Business
 - 9.6.3 Nidec Corporation External Rotor Centrifugal Fan Product and Services
 - 9.6.4 Nidec Corporation External Rotor Centrifugal Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Nidec Corporation Recent Developments/Updates
 - 9.6.6 Nidec Corporation Competitive Strengths & Weaknesses
- 9.7 Greenheck Fan
 - 9.7.1 Greenheck Fan Details
 - 9.7.2 Greenheck Fan Major Business
 - 9.7.3 Greenheck Fan External Rotor Centrifugal Fan Product and Services
 - 9.7.4 Greenheck Fan External Rotor Centrifugal Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Greenheck Fan Recent Developments/Updates
 - 9.7.6 Greenheck Fan Competitive Strengths & Weaknesses
- 9.8 Johnson Electric
 - 9.8.1 Johnson Electric Details
 - 9.8.2 Johnson Electric Major Business
 - 9.8.3 Johnson Electric External Rotor Centrifugal Fan Product and Services
 - 9.8.4 Johnson Electric External Rotor Centrifugal Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Johnson Electric Recent Developments/Updates
 - 9.8.6 Johnson Electric Competitive Strengths & Weaknesses
- 9.9 GMCC&Welling
 - 9.9.1 GMCC&Welling Details
 - 9.9.2 GMCC&Welling Major Business
 - 9.9.3 GMCC&Welling External Rotor Centrifugal Fan Product and Services
 - 9.9.4 GMCC&Welling External Rotor Centrifugal Fan Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.9.5 GMCC&Welling Recent Developments/Updates

9.9.6 GMCC&Welling Competitive Strengths & Weaknesses

9.10 Changzhou Xiangming

9.10.1 Changzhou Xiangming Details

9.10.2 Changzhou Xiangming Major Business

9.10.3 Changzhou Xiangming External Rotor Centrifugal Fan Product and Services

9.10.4 Changzhou Xiangming External Rotor Centrifugal Fan Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.10.5 Changzhou Xiangming Recent Developments/Updates

9.10.6 Changzhou Xiangming Competitive Strengths & Weaknesses

9.11 Zhongshan Broad?Ocean Motor

9.11.1 Zhongshan Broad?Ocean Motor Details

9.11.2 Zhongshan Broad?Ocean Motor Major Business

9.11.3 Zhongshan Broad?Ocean Motor External Rotor Centrifugal Fan Product and Services

9.11.4 Zhongshan Broad?Ocean Motor External Rotor Centrifugal Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Zhongshan Broad?Ocean Motor Recent Developments/Updates

9.11.6 Zhongshan Broad?Ocean Motor Competitive Strengths & Weaknesses

9.12 Fans-tech Electrical

9.12.1 Fans-tech Electrical Details

9.12.2 Fans-tech Electrical Major Business

9.12.3 Fans-tech Electrical External Rotor Centrifugal Fan Product and Services

9.12.4 Fans-tech Electrical External Rotor Centrifugal Fan Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.12.5 Fans-tech Electrical Recent Developments/Updates

9.12.6 Fans-tech Electrical Competitive Strengths & Weaknesses

9.13 Hangzhou Weiguang

9.13.1 Hangzhou Weiguang Details

9.13.2 Hangzhou Weiguang Major Business

9.13.3 Hangzhou Weiguang External Rotor Centrifugal Fan Product and Services

9.13.4 Hangzhou Weiguang External Rotor Centrifugal Fan Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.13.5 Hangzhou Weiguang Recent Developments/Updates

9.13.6 Hangzhou Weiguang Competitive Strengths & Weaknesses

9.14 Zhejiang Langdi Group

9.14.1 Zhejiang Langdi Group Details

9.14.2 Zhejiang Langdi Group Major Business

- 9.14.3 Zhejiang Langdi Group External Rotor Centrifugal Fan Product and Services
- 9.14.4 Zhejiang Langdi Group External Rotor Centrifugal Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.14.5 Zhejiang Langdi Group Recent Developments/Updates
- 9.14.6 Zhejiang Langdi Group Competitive Strengths & Weaknesses
- 9.15 SHYUAN YA
 - 9.15.1 SHYUAN YA Details
 - 9.15.2 SHYUAN YA Major Business
 - 9.15.3 SHYUAN YA External Rotor Centrifugal Fan Product and Services
 - 9.15.4 SHYUAN YA External Rotor Centrifugal Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 SHYUAN YA Recent Developments/Updates
 - 9.15.6 SHYUAN YA Competitive Strengths & Weaknesses
- 9.16 Howden
 - 9.16.1 Howden Details
 - 9.16.2 Howden Major Business
 - 9.16.3 Howden External Rotor Centrifugal Fan Product and Services
 - 9.16.4 Howden External Rotor Centrifugal Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 Howden Recent Developments/Updates
 - 9.16.6 Howden Competitive Strengths & Weaknesses
- 9.17 Nicotra
 - 9.17.1 Nicotra Details
 - 9.17.2 Nicotra Major Business
 - 9.17.3 Nicotra External Rotor Centrifugal Fan Product and Services
 - 9.17.4 Nicotra External Rotor Centrifugal Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.17.5 Nicotra Recent Developments/Updates
 - 9.17.6 Nicotra Competitive Strengths & Weaknesses
- 9.18 Kruger
 - 9.18.1 Kruger Details
 - 9.18.2 Kruger Major Business
 - 9.18.3 Kruger External Rotor Centrifugal Fan Product and Services
 - 9.18.4 Kruger External Rotor Centrifugal Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 Kruger Recent Developments/Updates
 - 9.18.6 Kruger Competitive Strengths & Weaknesses
- 9.19 Halifax
 - 9.19.1 Halifax Details

- 9.19.2 Halifax Major Business
- 9.19.3 Halifax External Rotor Centrifugal Fan Product and Services
- 9.19.4 Halifax External Rotor Centrifugal Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.19.5 Halifax Recent Developments/Updates
- 9.19.6 Halifax Competitive Strengths & Weaknesses
- 9.20 Fandis S.p.A.
 - 9.20.1 Fandis S.p.A. Details
 - 9.20.2 Fandis S.p.A. Major Business
 - 9.20.3 Fandis S.p.A. External Rotor Centrifugal Fan Product and Services
 - 9.20.4 Fandis S.p.A. External Rotor Centrifugal Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.20.5 Fandis S.p.A. Recent Developments/Updates
 - 9.20.6 Fandis S.p.A. Competitive Strengths & Weaknesses
- 9.21 Cutes Corporation
 - 9.21.1 Cutes Corporation Details
 - 9.21.2 Cutes Corporation Major Business
 - 9.21.3 Cutes Corporation External Rotor Centrifugal Fan Product and Services
 - 9.21.4 Cutes Corporation External Rotor Centrifugal Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.21.5 Cutes Corporation Recent Developments/Updates
 - 9.21.6 Cutes Corporation Competitive Strengths & Weaknesses
- 9.22 Hangzhou Airflow Electric Appliances Co., Ltd.
 - 9.22.1 Hangzhou Airflow Electric Appliances Co., Ltd. Details
 - 9.22.2 Hangzhou Airflow Electric Appliances Co., Ltd. Major Business
 - 9.22.3 Hangzhou Airflow Electric Appliances Co., Ltd. External Rotor Centrifugal Fan Product and Services
 - 9.22.4 Hangzhou Airflow Electric Appliances Co., Ltd. External Rotor Centrifugal Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.22.5 Hangzhou Airflow Electric Appliances Co., Ltd. Recent Developments/Updates
 - 9.22.6 Hangzhou Airflow Electric Appliances Co., Ltd. Competitive Strengths & Weaknesses
- 9.23 Wolong Electric Group Co., Ltd.
 - 9.23.1 Wolong Electric Group Co., Ltd. Details
 - 9.23.2 Wolong Electric Group Co., Ltd. Major Business
 - 9.23.3 Wolong Electric Group Co., Ltd. External Rotor Centrifugal Fan Product and Services
 - 9.23.4 Wolong Electric Group Co., Ltd. External Rotor Centrifugal Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.23.5 Wolong Electric Group Co., Ltd. Recent Developments/Updates
- 9.23.6 Wolong Electric Group Co., Ltd. Competitive Strengths & Weaknesses
- 9.24 Longwell Electric Technology Co., Ltd.
 - 9.24.1 Longwell Electric Technology Co., Ltd. Details
 - 9.24.2 Longwell Electric Technology Co., Ltd. Major Business
 - 9.24.3 Longwell Electric Technology Co., Ltd. External Rotor Centrifugal Fan Product and Services
 - 9.24.4 Longwell Electric Technology Co., Ltd. External Rotor Centrifugal Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.24.5 Longwell Electric Technology Co., Ltd. Recent Developments/Updates
 - 9.24.6 Longwell Electric Technology Co., Ltd. Competitive Strengths & Weaknesses
- 9.25 Zhejiang Maer Fan Co., Ltd.
 - 9.25.1 Zhejiang Maer Fan Co., Ltd. Details
 - 9.25.2 Zhejiang Maer Fan Co., Ltd. Major Business
 - 9.25.3 Zhejiang Maer Fan Co., Ltd. External Rotor Centrifugal Fan Product and Services
 - 9.25.4 Zhejiang Maer Fan Co., Ltd. External Rotor Centrifugal Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.25.5 Zhejiang Maer Fan Co., Ltd. Recent Developments/Updates
 - 9.25.6 Zhejiang Maer Fan Co., Ltd. Competitive Strengths & Weaknesses
- 9.26 Zhejiang Lion King Ventilator Co., Ltd.
 - 9.26.1 Zhejiang Lion King Ventilator Co., Ltd. Details
 - 9.26.2 Zhejiang Lion King Ventilator Co., Ltd. Major Business
 - 9.26.3 Zhejiang Lion King Ventilator Co., Ltd. External Rotor Centrifugal Fan Product and Services
 - 9.26.4 Zhejiang Lion King Ventilator Co., Ltd. External Rotor Centrifugal Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.26.5 Zhejiang Lion King Ventilator Co., Ltd. Recent Developments/Updates
 - 9.26.6 Zhejiang Lion King Ventilator Co., Ltd. Competitive Strengths & Weaknesses
- 9.27 Airt?cnics
 - 9.27.1 Airt?cnics Details
 - 9.27.2 Airt?cnics Major Business
 - 9.27.3 Airt?cnics External Rotor Centrifugal Fan Product and Services
 - 9.27.4 Airt?cnics External Rotor Centrifugal Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.27.5 Airt?cnics Recent Developments/Updates
 - 9.27.6 Airt?cnics Competitive Strengths & Weaknesses
- 9.28 Blauberg Motoren
 - 9.28.1 Blauberg Motoren Details

- 9.28.2 Blauberg Motoren Major Business
- 9.28.3 Blauberg Motoren External Rotor Centrifugal Fan Product and Services
- 9.28.4 Blauberg Motoren External Rotor Centrifugal Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.28.5 Blauberg Motoren Recent Developments/Updates
- 9.28.6 Blauberg Motoren Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 External Rotor Centrifugal Fan Industry Chain
- 10.2 External Rotor Centrifugal Fan Upstream Analysis
 - 10.2.1 External Rotor Centrifugal Fan Core Raw Materials
 - 10.2.2 Main Manufacturers of External Rotor Centrifugal Fan Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 External Rotor Centrifugal Fan Production Mode
- 10.6 External Rotor Centrifugal Fan Procurement Model
- 10.7 External Rotor Centrifugal Fan Industry Sales Model and Sales Channels
 - 10.7.1 External Rotor Centrifugal Fan Sales Model
 - 10.7.2 External Rotor Centrifugal Fan 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 External Rotor Centrifugal Fan Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World External Rotor Centrifugal Fan Production Value by Region (2021-2026) & (USD Million)

Table 3. World External Rotor Centrifugal Fan Production Value by Region (2027-2032) & (USD Million)

Table 4. World External Rotor Centrifugal Fan Production Value Market Share by Region (2021-2026)

Table 5. World External Rotor Centrifugal Fan Production Value Market Share by Region (2027-2032)

Table 6. World External Rotor Centrifugal Fan Production by Region (2021-2026) & (K Units)

Table 7. World External Rotor Centrifugal Fan Production by Region (2027-2032) & (K Units)

Table 8. World External Rotor Centrifugal Fan Production Market Share by Region (2021-2026)

Table 9. World External Rotor Centrifugal Fan Production Market Share by Region (2027-2032)

Table 10. World External Rotor Centrifugal Fan Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World External Rotor Centrifugal Fan Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. External Rotor Centrifugal Fan Major Market Trends

Table 13. World External Rotor Centrifugal Fan Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World External Rotor Centrifugal Fan Consumption by Region (2021-2026) & (K Units)

Table 15. World External Rotor Centrifugal Fan Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World External Rotor Centrifugal Fan Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key External Rotor Centrifugal Fan Producers in 2025

Table 18. World External Rotor Centrifugal Fan Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key External Rotor Centrifugal Fan Producers in 2025

Table 20. World External Rotor Centrifugal Fan Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global External Rotor Centrifugal Fan Company Evaluation Quadrant

Table 22. World External Rotor Centrifugal Fan Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and External Rotor Centrifugal Fan Production Site of Key Manufacturer

Table 24. External Rotor Centrifugal Fan Market: Company Product Type Footprint

Table 25. External Rotor Centrifugal Fan Market: Company Product Application Footprint

Table 26. External Rotor Centrifugal Fan Competitive Factors

Table 27. External Rotor Centrifugal Fan New Entrant and Capacity Expansion Plans

Table 28. External Rotor Centrifugal Fan Mergers & Acquisitions Activity

Table 29. United States VS China External Rotor Centrifugal Fan Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China External Rotor Centrifugal Fan Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China External Rotor Centrifugal Fan Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based External Rotor Centrifugal Fan Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers External Rotor Centrifugal Fan Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers External Rotor Centrifugal Fan Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers External Rotor Centrifugal Fan Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers External Rotor Centrifugal Fan Production Market Share (2021-2026)

Table 37. China Based External Rotor Centrifugal Fan Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers External Rotor Centrifugal Fan Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers External Rotor Centrifugal Fan Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers External Rotor Centrifugal Fan Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers External Rotor Centrifugal Fan Production Market Share (2021-2026)

Table 42. Rest of World Based External Rotor Centrifugal Fan Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers External Rotor Centrifugal Fan Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers External Rotor Centrifugal Fan Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers External Rotor Centrifugal Fan Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers External Rotor Centrifugal Fan Production Market Share (2021-2026)

Table 47. World External Rotor Centrifugal Fan Production Value by Blade Shape, (USD Million), 2021 & 2025 & 2032

Table 48. World External Rotor Centrifugal Fan Production by Blade Shape (2021-2026) & (K Units)

Table 49. World External Rotor Centrifugal Fan Production by Blade Shape (2027-2032) & (K Units)

Table 50. World External Rotor Centrifugal Fan Production Value by Blade Shape (2021-2026) & (USD Million)

Table 51. World External Rotor Centrifugal Fan Production Value by Blade Shape (2027-2032) & (USD Million)

Table 52. World External Rotor Centrifugal Fan Average Price by Blade Shape (2021-2026) & (US\$/Unit)

Table 53. World External Rotor Centrifugal Fan Average Price by Blade Shape (2027-2032) & (US\$/Unit)

Table 54. World External Rotor Centrifugal Fan Production Value by Inlet Method, (USD Million), 2021 & 2025 & 2032

Table 55. World External Rotor Centrifugal Fan Production by Inlet Method (2021-2026) & (K Units)

Table 56. World External Rotor Centrifugal Fan Production by Inlet Method (2027-2032) & (K Units)

Table 57. World External Rotor Centrifugal Fan Production Value by Inlet Method (2021-2026) & (USD Million)

Table 58. World External Rotor Centrifugal Fan Production Value by Inlet Method (2027-2032) & (USD Million)

Table 59. World External Rotor Centrifugal Fan Average Price by Inlet Method (2021-2026) & (US\$/Unit)

Table 60. World External Rotor Centrifugal Fan Average Price by Inlet Method

(2027-2032) & (US\$/Unit)

Table 61. World External Rotor Centrifugal Fan Production Value by Housing Structure, (USD Million), 2021 & 2025 & 2032

Table 62. World External Rotor Centrifugal Fan Production by Housing Structure (2021-2026) & (K Units)

Table 63. World External Rotor Centrifugal Fan Production by Housing Structure (2027-2032) & (K Units)

Table 64. World External Rotor Centrifugal Fan Production Value by Housing Structure (2021-2026) & (USD Million)

Table 65. World External Rotor Centrifugal Fan Production Value by Housing Structure (2027-2032) & (USD Million)

Table 66. World External Rotor Centrifugal Fan Average Price by Housing Structure (2021-2026) & (US\$/Unit)

Table 67. World External Rotor Centrifugal Fan Average Price by Housing Structure (2027-2032) & (US\$/Unit)

Table 68. World External Rotor Centrifugal Fan Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World External Rotor Centrifugal Fan Production by Application (2021-2026) & (K Units)

Table 70. World External Rotor Centrifugal Fan Production by Application (2027-2032) & (K Units)

Table 71. World External Rotor Centrifugal Fan Production Value by Application (2021-2026) & (USD Million)

Table 72. World External Rotor Centrifugal Fan Production Value by Application (2027-2032) & (USD Million)

Table 73. World External Rotor Centrifugal Fan Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World External Rotor Centrifugal Fan Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. ebmpapst Basic Information, Manufacturing Base and Competitors

Table 76. ebmpapst Major Business

Table 77. ebmpapst External Rotor Centrifugal Fan Product and Services

Table 78. ebmpapst External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. ebmpapst Recent Developments/Updates

Table 80. ebmpapst Competitive Strengths & Weaknesses

Table 81. Ziehl-Abegg Basic Information, Manufacturing Base and Competitors

Table 82. Ziehl-Abegg Major Business

Table 83. Ziehl-Abegg External Rotor Centrifugal Fan Product and Services
Table 84. Ziehl-Abegg External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Ziehl-Abegg Recent Developments/Updates
Table 86. Ziehl-Abegg Competitive Strengths & Weaknesses
Table 87. Rosenberg Ventilatoren GmbH Basic Information, Manufacturing Base and Competitors
Table 88. Rosenberg Ventilatoren GmbH Major Business
Table 89. Rosenberg Ventilatoren GmbH External Rotor Centrifugal Fan Product and Services
Table 90. Rosenberg Ventilatoren GmbH External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Rosenberg Ventilatoren GmbH Recent Developments/Updates
Table 92. Rosenberg Ventilatoren GmbH Competitive Strengths & Weaknesses
Table 93. Spal Srl Basic Information, Manufacturing Base and Competitors
Table 94. Spal Srl Major Business
Table 95. Spal Srl External Rotor Centrifugal Fan Product and Services
Table 96. Spal Srl External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Spal Srl Recent Developments/Updates
Table 98. Spal Srl Competitive Strengths & Weaknesses
Table 99. Ecofit Basic Information, Manufacturing Base and Competitors
Table 100. Ecofit Major Business
Table 101. Ecofit External Rotor Centrifugal Fan Product and Services
Table 102. Ecofit External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Ecofit Recent Developments/Updates
Table 104. Ecofit Competitive Strengths & Weaknesses
Table 105. Nidec Corporation Basic Information, Manufacturing Base and Competitors
Table 106. Nidec Corporation Major Business
Table 107. Nidec Corporation External Rotor Centrifugal Fan Product and Services
Table 108. Nidec Corporation External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Nidec Corporation Recent Developments/Updates
Table 110. Nidec Corporation Competitive Strengths & Weaknesses

Table 111. Greenheck Fan Basic Information, Manufacturing Base and Competitors

Table 112. Greenheck Fan Major Business

Table 113. Greenheck Fan External Rotor Centrifugal Fan Product and Services

Table 114. Greenheck Fan External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Greenheck Fan Recent Developments/Updates

Table 116. Greenheck Fan Competitive Strengths & Weaknesses

Table 117. Johnson Electric Basic Information, Manufacturing Base and Competitors

Table 118. Johnson Electric Major Business

Table 119. Johnson Electric External Rotor Centrifugal Fan Product and Services

Table 120. Johnson Electric External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Johnson Electric Recent Developments/Updates

Table 122. Johnson Electric Competitive Strengths & Weaknesses

Table 123. GMCC&Welling Basic Information, Manufacturing Base and Competitors

Table 124. GMCC&Welling Major Business

Table 125. GMCC&Welling External Rotor Centrifugal Fan Product and Services

Table 126. GMCC&Welling External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. GMCC&Welling Recent Developments/Updates

Table 128. GMCC&Welling Competitive Strengths & Weaknesses

Table 129. Changzhou Xiangming Basic Information, Manufacturing Base and Competitors

Table 130. Changzhou Xiangming Major Business

Table 131. Changzhou Xiangming External Rotor Centrifugal Fan Product and Services

Table 132. Changzhou Xiangming External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Changzhou Xiangming Recent Developments/Updates

Table 134. Changzhou Xiangming Competitive Strengths & Weaknesses

Table 135. Zhongshan Broad?Ocean Motor Basic Information, Manufacturing Base and Competitors

Table 136. Zhongshan Broad?Ocean Motor Major Business

Table 137. Zhongshan Broad?Ocean Motor External Rotor Centrifugal Fan Product and Services

Table 138. Zhongshan Broad?Ocean Motor External Rotor Centrifugal Fan Production

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

Table 139. Zhongshan Broad?Ocean Motor Recent Developments/Updates

Table 140. Zhongshan Broad?Ocean Motor Competitive Strengths & Weaknesses

Table 141. Fans-tech Electrical Basic Information, Manufacturing Base and Competitors

Table 142. Fans-tech Electrical Major Business

Table 143. Fans-tech Electrical External Rotor Centrifugal Fan Product and Services

Table 144. Fans-tech Electrical External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Fans-tech Electrical Recent Developments/Updates

Table 146. Fans-tech Electrical Competitive Strengths & Weaknesses

Table 147. Hangzhou Weiguang Basic Information, Manufacturing Base and Competitors

Table 148. Hangzhou Weiguang Major Business

Table 149. Hangzhou Weiguang External Rotor Centrifugal Fan Product and Services

Table 150. Hangzhou Weiguang External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Hangzhou Weiguang Recent Developments/Updates

Table 152. Hangzhou Weiguang Competitive Strengths & Weaknesses

Table 153. Zhejiang Langdi Group Basic Information, Manufacturing Base and Competitors

Table 154. Zhejiang Langdi Group Major Business

Table 155. Zhejiang Langdi Group External Rotor Centrifugal Fan Product and Services

Table 156. Zhejiang Langdi Group External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Zhejiang Langdi Group Recent Developments/Updates

Table 158. Zhejiang Langdi Group Competitive Strengths & Weaknesses

Table 159. SHYUAN YA Basic Information, Manufacturing Base and Competitors

Table 160. SHYUAN YA Major Business

Table 161. SHYUAN YA External Rotor Centrifugal Fan Product and Services

Table 162. SHYUAN YA External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. SHYUAN YA Recent Developments/Updates

Table 164. SHYUAN YA Competitive Strengths & Weaknesses

Table 165. Howden Basic Information, Manufacturing Base and Competitors

Table 166. Howden Major Business

Table 167. Howden External Rotor Centrifugal Fan Product and Services

Table 168. Howden External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Howden Recent Developments/Updates

Table 170. Howden Competitive Strengths & Weaknesses

Table 171. Nicotra Basic Information, Manufacturing Base and Competitors

Table 172. Nicotra Major Business

Table 173. Nicotra External Rotor Centrifugal Fan Product and Services

Table 174. Nicotra External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Nicotra Recent Developments/Updates

Table 176. Nicotra Competitive Strengths & Weaknesses

Table 177. Kruger Basic Information, Manufacturing Base and Competitors

Table 178. Kruger Major Business

Table 179. Kruger External Rotor Centrifugal Fan Product and Services

Table 180. Kruger External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Kruger Recent Developments/Updates

Table 182. Kruger Competitive Strengths & Weaknesses

Table 183. Halifax Basic Information, Manufacturing Base and Competitors

Table 184. Halifax Major Business

Table 185. Halifax External Rotor Centrifugal Fan Product and Services

Table 186. Halifax External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Halifax Recent Developments/Updates

Table 188. Halifax Competitive Strengths & Weaknesses

Table 189. Fandis S.p.A. Basic Information, Manufacturing Base and Competitors

Table 190. Fandis S.p.A. Major Business

Table 191. Fandis S.p.A. External Rotor Centrifugal Fan Product and Services

Table 192. Fandis S.p.A. External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. Fandis S.p.A. Recent Developments/Updates

Table 194. Fandis S.p.A. Competitive Strengths & Weaknesses

Table 195. Cutes Corporation Basic Information, Manufacturing Base and Competitors

Table 196. Cutes Corporation Major Business

Table 197. Cutes Corporation External Rotor Centrifugal Fan Product and Services

Table 198. Cutes Corporation External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 199. Cutes Corporation Recent Developments/Updates

Table 200. Cutes Corporation Competitive Strengths & Weaknesses

Table 201. Hangzhou Airflow Electric Appliances Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 202. Hangzhou Airflow Electric Appliances Co., Ltd. Major Business

Table 203. Hangzhou Airflow Electric Appliances Co., Ltd. External Rotor Centrifugal Fan Product and Services

Table 204. Hangzhou Airflow Electric Appliances Co., Ltd. External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 205. Hangzhou Airflow Electric Appliances Co., Ltd. Recent Developments/Updates

Table 206. Hangzhou Airflow Electric Appliances Co., Ltd. Competitive Strengths & Weaknesses

Table 207. Wolong Electric Group Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 208. Wolong Electric Group Co., Ltd. Major Business

Table 209. Wolong Electric Group Co., Ltd. External Rotor Centrifugal Fan Product and Services

Table 210. Wolong Electric Group Co., Ltd. External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 211. Wolong Electric Group Co., Ltd. Recent Developments/Updates

Table 212. Wolong Electric Group Co., Ltd. Competitive Strengths & Weaknesses

Table 213. Longwell Electric Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 214. Longwell Electric Technology Co., Ltd. Major Business

Table 215. Longwell Electric Technology Co., Ltd. External Rotor Centrifugal Fan Product and Services

Table 216. Longwell Electric Technology Co., Ltd. External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 217. Longwell Electric Technology Co., Ltd. Recent Developments/Updates

Table 218. Longwell Electric Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 219. Zhejiang Maer Fan Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 220. Zhejiang Maer Fan Co., Ltd. Major Business

Table 221. Zhejiang Maer Fan Co., Ltd. External Rotor Centrifugal Fan Product and Services

Table 222. Zhejiang Maer Fan Co., Ltd. External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 223. Zhejiang Maer Fan Co., Ltd. Recent Developments/Updates

Table 224. Zhejiang Maer Fan Co., Ltd. Competitive Strengths & Weaknesses

Table 225. Zhejiang Lion King Ventilator Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 226. Zhejiang Lion King Ventilator Co., Ltd. Major Business

Table 227. Zhejiang Lion King Ventilator Co., Ltd. External Rotor Centrifugal Fan Product and Services

Table 228. Zhejiang Lion King Ventilator Co., Ltd. External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 229. Zhejiang Lion King Ventilator Co., Ltd. Recent Developments/Updates

Table 230. Zhejiang Lion King Ventilator Co., Ltd. Competitive Strengths & Weaknesses

Table 231. Airt?cnics Basic Information, Manufacturing Base and Competitors

Table 232. Airt?cnics Major Business

Table 233. Airt?cnics External Rotor Centrifugal Fan Product and Services

Table 234. Airt?cnics External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 235. Airt?cnics Recent Developments/Updates

Table 236. Airt?cnics Competitive Strengths & Weaknesses

Table 237. Blauberg Motoren Basic Information, Manufacturing Base and Competitors

Table 238. Blauberg Motoren Major Business

Table 239. Blauberg Motoren External Rotor Centrifugal Fan Product and Services

Table 240. Blauberg Motoren External Rotor Centrifugal Fan Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 241. Blauberg Motoren Recent Developments/Updates

Table 242. Blauberg Motoren Competitive Strengths & Weaknesses

Table 243. Global Key Players of External Rotor Centrifugal Fan Upstream (Raw

Materials)

Table 244. Global External Rotor Centrifugal Fan Typical Customers

Table 245. External Rotor Centrifugal Fan Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. External Rotor Centrifugal Fan Picture

Figure 2. World External Rotor Centrifugal Fan Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World External Rotor Centrifugal Fan Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World External Rotor Centrifugal Fan Production (2021-2032) & (K Units)

Figure 5. World External Rotor Centrifugal Fan Average Price (2021-2032) & (US\$/Unit)

Figure 6. World External Rotor Centrifugal Fan Production Value Market Share by Region (2021-2032)

Figure 7. World External Rotor Centrifugal Fan Production Market Share by Region (2021-2032)

Figure 8. North America External Rotor Centrifugal Fan Production (2021-2032) & (K Units)

Figure 9. Europe External Rotor Centrifugal Fan Production (2021-2032) & (K Units)

Figure 10. China External Rotor Centrifugal Fan Production (2021-2032) & (K Units)

Figure 11. Japan External Rotor Centrifugal Fan Production (2021-2032) & (K Units)

Figure 12. External Rotor Centrifugal Fan Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World External Rotor Centrifugal Fan Consumption (2021-2032) & (K Units)

Figure 15. World External Rotor Centrifugal Fan Consumption Market Share by Region (2021-2032)

Figure 16. United States External Rotor Centrifugal Fan Consumption (2021-2032) & (K Units)

Figure 17. China External Rotor Centrifugal Fan Consumption (2021-2032) & (K Units)

Figure 18. Europe External Rotor Centrifugal Fan Consumption (2021-2032) & (K Units)

Figure 19. Japan External Rotor Centrifugal Fan Consumption (2021-2032) & (K Units)

Figure 20. South Korea External Rotor Centrifugal Fan Consumption (2021-2032) & (K Units)

Figure 21. ASEAN External Rotor Centrifugal Fan Consumption (2021-2032) & (K Units)

Figure 22. India External Rotor Centrifugal Fan Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of External Rotor Centrifugal Fan by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for External Rotor Centrifugal Fan Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for External Rotor Centrifugal

Fan Markets in 2025

Figure 26. United States VS China: External Rotor Centrifugal Fan Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: External Rotor Centrifugal Fan Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: External Rotor Centrifugal Fan Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers External Rotor Centrifugal Fan Production Market Share 2025

Figure 30. China Based Manufacturers External Rotor Centrifugal Fan Production Market Share 2025

Figure 31. Rest of World Based Manufacturers External Rotor Centrifugal Fan Production Market Share 2025

Figure 32. World External Rotor Centrifugal Fan Production Value by Blade Shape, (USD Million), 2021 & 2025 & 2032

Figure 33. World External Rotor Centrifugal Fan Production Value Market Share by Blade Shape in 2025

Figure 34. Forward Curved Blade

Figure 35. Backward Curved Blade

Figure 36. Radial Blade

Figure 37. Other

Figure 38. World External Rotor Centrifugal Fan Production Market Share by Blade Shape (2021-2032)

Figure 39. World External Rotor Centrifugal Fan Production Value Market Share by Blade Shape (2021-2032)

Figure 40. World External Rotor Centrifugal Fan Average Price by Blade Shape (2021-2032) & (US\$/Unit)

Figure 41. World External Rotor Centrifugal Fan Production Value by Inlet Method, (USD Million), 2021 & 2025 & 2032

Figure 42. World External Rotor Centrifugal Fan Production Value Market Share by Inlet Method in 2025

Figure 43. Single Inlet

Figure 44. Double Inlet

Figure 45. Other

Figure 46. World External Rotor Centrifugal Fan Production Market Share by Inlet Method (2021-2032)

Figure 47. World External Rotor Centrifugal Fan Production Value Market Share by Inlet Method (2021-2032)

Figure 48. World External Rotor Centrifugal Fan Average Price by Inlet Method

(2021-2032) & (US\$/Unit)

Figure 49. World External Rotor Centrifugal Fan Production Value by Housing Structure, (USD Million), 2021 & 2025 & 2032

Figure 50. World External Rotor Centrifugal Fan Production Value Market Share by Housing Structure in 2025

Figure 51. Scroll Housing Structure

Figure 52. Scroll-Free Structure

Figure 53. World External Rotor Centrifugal Fan Production Market Share by Housing Structure (2021-2032)

Figure 54. World External Rotor Centrifugal Fan Production Value Market Share by Housing Structure (2021-2032)

Figure 55. World External Rotor Centrifugal Fan Average Price by Housing Structure (2021-2032) & (US\$/Unit)

Figure 56. World External Rotor Centrifugal Fan Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World External Rotor Centrifugal Fan Production Value Market Share by Application in 2025

Figure 58. HVAC Equipment Support

Figure 59. Refrigeration and Cold Chain Equipment Support

Figure 60. Data Center and Communications Cooling

Figure 61. Other

Figure 62. World External Rotor Centrifugal Fan Production Market Share by Application (2021-2032)

Figure 63. World External Rotor Centrifugal Fan Production Value Market Share by Application (2021-2032)

Figure 64. World External Rotor Centrifugal Fan Average Price by Application (2021-2032) & (US\$/Unit)

Figure 65. External Rotor Centrifugal Fan Industry Chain

Figure 66. External Rotor Centrifugal Fan Procurement Model

Figure 67. External Rotor Centrifugal Fan Sales Model

Figure 68. External Rotor Centrifugal Fan Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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