

Global Steel-Concrete Hybrid Turbine Tower Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Steel-Concrete Hybrid Turbine Tower market size is expected to reach \$ 881 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

A Steel-Concrete Hybrid Turbine Tower is a wind turbine support structure composed of both steel tower sections and concrete tower sections. In most designs, the lower part of the tower is made of precast or cast-in-place concrete, while the upper part uses conventional tubular steel sections. These sections are connected through flanges, prestressing tendons, transition rings, or dedicated connection components to form an integrated load-bearing structure. Compared with all-steel towers, steel-concrete hybrid towers can provide higher stiffness and load-bearing capacity at greater hub heights, reduce transportation constraints associated with large-diameter steel sections, and lower steel consumption in some designs. Compared with all-concrete towers, the upper steel section is easier to manufacture, transport, install, and connect with the wind turbine nacelle. Therefore, hybrid towers are mainly used for large-capacity onshore wind turbines, high-hub-height wind projects, low-wind-speed areas, and wind farms requiring stronger structural stability and better transport adaptability. In 2025, global Steel-Concrete Hybrid Turbine Tower production reached approximately 527 Units, with an average global market price of around 1054 k USD/Unit. The production capacity for Steel-Concrete Hybrid Turbine Tower in 2025 was approximately 600 Units. The typical gross profit margin for Steel-Concrete Hybrid Turbine Tower between 20% and 40%.

The Steel-Concrete Hybrid Turbine Tower market is mainly driven by the trend toward larger wind turbines, higher hub heights, and the development of low-wind-speed wind resources. As onshore wind projects move toward higher towers, larger rotor diameters, and greater turbine capacities, conventional all-steel towers face challenges related to

transportation diameter limits, structural stiffness, material cost, and fatigue performance. As a result, steel-concrete hybrid towers have become an important technical solution for high-tower wind projects. They are particularly suitable for inland low-wind-speed areas, mountainous wind farms, utility-scale onshore wind bases, and projects where transportation conditions are constrained but higher tower heights are required. Market competition is expected to focus on the manufacturing accuracy of precast concrete sections, on-site assembly efficiency, connection reliability, fatigue resistance, construction cycle control, and lifecycle cost optimization. In the future, as large-megawatt onshore turbines continue to expand and wind farm developers seek higher power generation efficiency and better land utilization, the adoption of steel-concrete hybrid turbine towers is likely to increase. However, market growth may still be constrained by construction complexity, regional supply chain coverage, transportation of concrete components, lifting capacity, and project-scale economics.

This report studies the global Steel-Concrete Hybrid Turbine Tower production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Steel-Concrete Hybrid Turbine Tower 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 Steel-Concrete Hybrid Turbine Tower that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Steel-Concrete Hybrid Turbine Tower total production and demand, 2021-2032, (Units)

Global Steel-Concrete Hybrid Turbine Tower total production value, 2021-2032, (USD Million)

Global Steel-Concrete Hybrid Turbine Tower production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Steel-Concrete Hybrid Turbine Tower consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Steel-Concrete Hybrid Turbine Tower domestic production, consumption, key domestic manufacturers and share

Global Steel-Concrete Hybrid Turbine Tower production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Steel-Concrete Hybrid Turbine Tower production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Steel-Concrete Hybrid Turbine Tower production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Steel-Concrete Hybrid Turbine Tower 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 Enercon, Vestas, Siemens Gamesa, Windar Renovables, Arcosa Towers, Marmen, Shanghai Taisheng, Titan Wind Energy, Haili Wind Power, Dajin Heavy Industry, 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 Steel-Concrete Hybrid Turbine Tower market

Detailed Segmentation:

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

Global Steel-Concrete Hybrid Turbine Tower Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Steel-Concrete Hybrid Turbine Tower Market, Segmentation by Type:

Cast-in-place Hybrid Tower

Precast Assembled Hybrid Tower

Post-tensioned Hybrid Tower

Global Steel-Concrete Hybrid Turbine Tower Market, Segmentation by Power:

?3 MW

3?6 MW

6?10 MW

?10 MW

Global Steel-Concrete Hybrid Turbine Tower Market, Segmentation by Height:

70?90 m

90?120 m

120?160 m

160 m+

Global Steel-Concrete Hybrid Turbine Tower Market, Segmentation by Application:

Onshore Wind Power

Offshore Wind Power

Companies Profiled:

Enercon

Vestas

Siemens Gamesa

Windar Renovables

Arcosa Towers

Marmen

Shanghai Taisheng

Titan Wind Energy

Haili Wind Power

Dajin Heavy Industry

Key Questions Answered:

1. How big is the global Steel-Concrete Hybrid Turbine Tower market?
2. What is the demand of the global Steel-Concrete Hybrid Turbine Tower market?
3. What is the year over year growth of the global Steel-Concrete Hybrid Turbine Tower market?
4. What is the production and production value of the global Steel-Concrete Hybrid Turbine Tower market?
5. Who are the key producers in the global Steel-Concrete Hybrid Turbine Tower market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Steel-Concrete Hybrid Turbine Tower Demand (2021-2032)
- 2.2 World Steel-Concrete Hybrid Turbine Tower Consumption by Region
 - 2.2.1 World Steel-Concrete Hybrid Turbine Tower Consumption by Region (2021-2026)
 - 2.2.2 World Steel-Concrete Hybrid Turbine Tower Consumption Forecast by Region (2027-2032)
- 2.3 United States Steel-Concrete Hybrid Turbine Tower Consumption (2021-2032)
- 2.4 China Steel-Concrete Hybrid Turbine Tower Consumption (2021-2032)
- 2.5 Europe Steel-Concrete Hybrid Turbine Tower Consumption (2021-2032)
- 2.6 Japan Steel-Concrete Hybrid Turbine Tower Consumption (2021-2032)
- 2.7 South Korea Steel-Concrete Hybrid Turbine Tower Consumption (2021-2032)
- 2.8 ASEAN Steel-Concrete Hybrid Turbine Tower Consumption (2021-2032)

2.9 India Steel-Concrete Hybrid Turbine Tower Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Steel-Concrete Hybrid Turbine Tower Production Value by Manufacturer (2021-2026)

3.2 World Steel-Concrete Hybrid Turbine Tower Production by Manufacturer (2021-2026)

3.3 World Steel-Concrete Hybrid Turbine Tower Average Price by Manufacturer (2021-2026)

3.4 Steel-Concrete Hybrid Turbine Tower Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Steel-Concrete Hybrid Turbine Tower Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Steel-Concrete Hybrid Turbine Tower in 2025

3.5.3 Global Concentration Ratios (CR8) for Steel-Concrete Hybrid Turbine Tower in 2025

3.6 Steel-Concrete Hybrid Turbine Tower Market: Overall Company Footprint Analysis

3.6.1 Steel-Concrete Hybrid Turbine Tower Market: Region Footprint

3.6.2 Steel-Concrete Hybrid Turbine Tower Market: Company Product Type Footprint

3.6.3 Steel-Concrete Hybrid Turbine Tower 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: Steel-Concrete Hybrid Turbine Tower Production Value Comparison

4.1.1 United States VS China: Steel-Concrete Hybrid Turbine Tower Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Steel-Concrete Hybrid Turbine Tower Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Steel-Concrete Hybrid Turbine Tower Production

Comparison

4.2.1 United States VS China: Steel-Concrete Hybrid Turbine Tower Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Steel-Concrete Hybrid Turbine Tower Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Steel-Concrete Hybrid Turbine Tower Consumption Comparison

4.3.1 United States VS China: Steel-Concrete Hybrid Turbine Tower Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Steel-Concrete Hybrid Turbine Tower Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Steel-Concrete Hybrid Turbine Tower Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Steel-Concrete Hybrid Turbine Tower Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Steel-Concrete Hybrid Turbine Tower Production Value (2021-2026)

4.4.3 United States Based Manufacturers Steel-Concrete Hybrid Turbine Tower Production (2021-2026)

4.5 China Based Steel-Concrete Hybrid Turbine Tower Manufacturers and Market Share

4.5.1 China Based Steel-Concrete Hybrid Turbine Tower Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Steel-Concrete Hybrid Turbine Tower Production Value (2021-2026)

4.5.3 China Based Manufacturers Steel-Concrete Hybrid Turbine Tower Production (2021-2026)

4.6 Rest of World Based Steel-Concrete Hybrid Turbine Tower Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Steel-Concrete Hybrid Turbine Tower Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Steel-Concrete Hybrid Turbine Tower Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Steel-Concrete Hybrid Turbine Tower Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Steel-Concrete Hybrid Turbine Tower Market Size Overview by Type: 2021

VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Cast-in-place Hybrid Tower

5.2.2 Precast Assembled Hybrid Tower

5.2.3 Post-tensioned Hybrid Tower

5.3 Market Segment by Type

5.3.1 World Steel-Concrete Hybrid Turbine Tower Production by Type (2021-2032)

5.3.2 World Steel-Concrete Hybrid Turbine Tower Production Value by Type
(2021-2032)

5.3.3 World Steel-Concrete Hybrid Turbine Tower Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY POWER

6.1 World Steel-Concrete Hybrid Turbine Tower Market Size Overview by Power: 2021
VS 2025 VS 2032

6.2 Segment Introduction by Power

6.2.1 ?3 MW

6.2.2 3?6 MW

6.2.3 6?10 MW

6.2.4 ?10 MW

6.3 Market Segment by Power

6.3.1 World Steel-Concrete Hybrid Turbine Tower Production by Power (2021-2032)

6.3.2 World Steel-Concrete Hybrid Turbine Tower Production Value by Power
(2021-2032)

6.3.3 World Steel-Concrete Hybrid Turbine Tower Average Price by Power
(2021-2032)

7 MARKET ANALYSIS BY HEIGHT

7.1 World Steel-Concrete Hybrid Turbine Tower Market Size Overview by Height: 2021
VS 2025 VS 2032

7.2 Segment Introduction by Height

7.2.1 70?90 m

7.2.2 90?120 m

7.2.3 120?160 m

7.2.4 160 m+

7.3 Market Segment by Height

7.3.1 World Steel-Concrete Hybrid Turbine Tower Production by Height (2021-2032)

7.3.2 World Steel-Concrete Hybrid Turbine Tower Production Value by Height

(2021-2032)

7.3.3 World Steel-Concrete Hybrid Turbine Tower Average Price by Height

(2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Steel-Concrete Hybrid Turbine Tower Market Size Overview by Application:
2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Onshore Wind Power

8.2.2 Offshore Wind Power

8.3 Market Segment by Application

8.3.1 World Steel-Concrete Hybrid Turbine Tower Production by Application

(2021-2032)

8.3.2 World Steel-Concrete Hybrid Turbine Tower Production Value by Application

(2021-2032)

8.3.3 World Steel-Concrete Hybrid Turbine Tower Average Price by Application

(2021-2032)

9 COMPANY PROFILES

9.1 Enercon

9.1.1 Enercon Details

9.1.2 Enercon Major Business

9.1.3 Enercon Steel-Concrete Hybrid Turbine Tower Product and Services

9.1.4 Enercon Steel-Concrete Hybrid Turbine Tower Production, Price, Value, Gross
Margin and Market Share (2021-2026)

9.1.5 Enercon Recent Developments/Updates

9.1.6 Enercon Competitive Strengths & Weaknesses

9.2 Vestas

9.2.1 Vestas Details

9.2.2 Vestas Major Business

9.2.3 Vestas Steel-Concrete Hybrid Turbine Tower Product and Services

9.2.4 Vestas Steel-Concrete Hybrid Turbine Tower Production, Price, Value, Gross
Margin and Market Share (2021-2026)

9.2.5 Vestas Recent Developments/Updates

9.2.6 Vestas Competitive Strengths & Weaknesses

9.3 Siemens Gamesa

9.3.1 Siemens Gamesa Details

- 9.3.2 Siemens Gamesa Major Business
- 9.3.3 Siemens Gamesa Steel-Concrete Hybrid Turbine Tower Product and Services
- 9.3.4 Siemens Gamesa Steel-Concrete Hybrid Turbine Tower Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.3.5 Siemens Gamesa Recent Developments/Updates
- 9.3.6 Siemens Gamesa Competitive Strengths & Weaknesses
- 9.4 Windar Renovables
 - 9.4.1 Windar Renovables Details
 - 9.4.2 Windar Renovables Major Business
 - 9.4.3 Windar Renovables Steel-Concrete Hybrid Turbine Tower Product and Services
 - 9.4.4 Windar Renovables Steel-Concrete Hybrid Turbine Tower Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Windar Renovables Recent Developments/Updates
 - 9.4.6 Windar Renovables Competitive Strengths & Weaknesses
- 9.5 Arcosa Towers
 - 9.5.1 Arcosa Towers Details
 - 9.5.2 Arcosa Towers Major Business
 - 9.5.3 Arcosa Towers Steel-Concrete Hybrid Turbine Tower Product and Services
 - 9.5.4 Arcosa Towers Steel-Concrete Hybrid Turbine Tower Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Arcosa Towers Recent Developments/Updates
 - 9.5.6 Arcosa Towers Competitive Strengths & Weaknesses
- 9.6 Marmen
 - 9.6.1 Marmen Details
 - 9.6.2 Marmen Major Business
 - 9.6.3 Marmen Steel-Concrete Hybrid Turbine Tower Product and Services
 - 9.6.4 Marmen Steel-Concrete Hybrid Turbine Tower Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Marmen Recent Developments/Updates
 - 9.6.6 Marmen Competitive Strengths & Weaknesses
- 9.7 Shanghai Taisheng
 - 9.7.1 Shanghai Taisheng Details
 - 9.7.2 Shanghai Taisheng Major Business
 - 9.7.3 Shanghai Taisheng Steel-Concrete Hybrid Turbine Tower Product and Services
 - 9.7.4 Shanghai Taisheng Steel-Concrete Hybrid Turbine Tower Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Shanghai Taisheng Recent Developments/Updates
 - 9.7.6 Shanghai Taisheng Competitive Strengths & Weaknesses
- 9.8 Titan Wind Energy

- 9.8.1 Titan Wind Energy Details
- 9.8.2 Titan Wind Energy Major Business
- 9.8.3 Titan Wind Energy Steel-Concrete Hybrid Turbine Tower Product and Services
- 9.8.4 Titan Wind Energy Steel-Concrete Hybrid Turbine Tower Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.8.5 Titan Wind Energy Recent Developments/Updates
- 9.8.6 Titan Wind Energy Competitive Strengths & Weaknesses
- 9.9 Haili Wind Power
 - 9.9.1 Haili Wind Power Details
 - 9.9.2 Haili Wind Power Major Business
 - 9.9.3 Haili Wind Power Steel-Concrete Hybrid Turbine Tower Product and Services
 - 9.9.4 Haili Wind Power Steel-Concrete Hybrid Turbine Tower Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Haili Wind Power Recent Developments/Updates
 - 9.9.6 Haili Wind Power Competitive Strengths & Weaknesses
- 9.10 Dajin Heavy Industry
 - 9.10.1 Dajin Heavy Industry Details
 - 9.10.2 Dajin Heavy Industry Major Business
 - 9.10.3 Dajin Heavy Industry Steel-Concrete Hybrid Turbine Tower Product and Services
 - 9.10.4 Dajin Heavy Industry Steel-Concrete Hybrid Turbine Tower Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Dajin Heavy Industry Recent Developments/Updates
 - 9.10.6 Dajin Heavy Industry Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

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

Table 2. World Steel-Concrete Hybrid Turbine Tower Production Value by Region (2021-2026) & (USD Million)

Table 3. World Steel-Concrete Hybrid Turbine Tower Production Value by Region (2027-2032) & (USD Million)

Table 4. World Steel-Concrete Hybrid Turbine Tower Production Value Market Share by Region (2021-2026)

Table 5. World Steel-Concrete Hybrid Turbine Tower Production Value Market Share by Region (2027-2032)

Table 6. World Steel-Concrete Hybrid Turbine Tower Production by Region (2021-2026) & (Units)

Table 7. World Steel-Concrete Hybrid Turbine Tower Production by Region (2027-2032) & (Units)

Table 8. World Steel-Concrete Hybrid Turbine Tower Production Market Share by Region (2021-2026)

Table 9. World Steel-Concrete Hybrid Turbine Tower Production Market Share by Region (2027-2032)

Table 10. World Steel-Concrete Hybrid Turbine Tower Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World Steel-Concrete Hybrid Turbine Tower Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. Steel-Concrete Hybrid Turbine Tower Major Market Trends

Table 13. World Steel-Concrete Hybrid Turbine Tower Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Steel-Concrete Hybrid Turbine Tower Consumption by Region (2021-2026) & (Units)

Table 15. World Steel-Concrete Hybrid Turbine Tower Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Steel-Concrete Hybrid Turbine Tower Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Steel-Concrete Hybrid Turbine Tower Producers in 2025

Table 18. World Steel-Concrete Hybrid Turbine Tower Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Steel-Concrete Hybrid Turbine Tower Producers in 2025

Table 20. World Steel-Concrete Hybrid Turbine Tower Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global Steel-Concrete Hybrid Turbine Tower Company Evaluation Quadrant

Table 22. World Steel-Concrete Hybrid Turbine Tower Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Steel-Concrete Hybrid Turbine Tower Production Site of Key Manufacturer

Table 24. Steel-Concrete Hybrid Turbine Tower Market: Company Product Type Footprint

Table 25. Steel-Concrete Hybrid Turbine Tower Market: Company Product Application Footprint

Table 26. Steel-Concrete Hybrid Turbine Tower Competitive Factors

Table 27. Steel-Concrete Hybrid Turbine Tower New Entrant and Capacity Expansion Plans

Table 28. Steel-Concrete Hybrid Turbine Tower Mergers & Acquisitions Activity

Table 29. United States VS China Steel-Concrete Hybrid Turbine Tower Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Steel-Concrete Hybrid Turbine Tower Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Steel-Concrete Hybrid Turbine Tower Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Steel-Concrete Hybrid Turbine Tower Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Steel-Concrete Hybrid Turbine Tower Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Steel-Concrete Hybrid Turbine Tower Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Steel-Concrete Hybrid Turbine Tower Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Steel-Concrete Hybrid Turbine Tower Production Market Share (2021-2026)

Table 37. China Based Steel-Concrete Hybrid Turbine Tower Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Steel-Concrete Hybrid Turbine Tower Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Steel-Concrete Hybrid Turbine Tower Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Steel-Concrete Hybrid Turbine Tower Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Steel-Concrete Hybrid Turbine Tower Production Market Share (2021-2026)

Table 42. Rest of World Based Steel-Concrete Hybrid Turbine Tower Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Steel-Concrete Hybrid Turbine Tower Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Steel-Concrete Hybrid Turbine Tower Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Steel-Concrete Hybrid Turbine Tower Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Steel-Concrete Hybrid Turbine Tower Production Market Share (2021-2026)

Table 47. World Steel-Concrete Hybrid Turbine Tower Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Steel-Concrete Hybrid Turbine Tower Production by Type (2021-2026) & (Units)

Table 49. World Steel-Concrete Hybrid Turbine Tower Production by Type (2027-2032) & (Units)

Table 50. World Steel-Concrete Hybrid Turbine Tower Production Value by Type (2021-2026) & (USD Million)

Table 51. World Steel-Concrete Hybrid Turbine Tower Production Value by Type (2027-2032) & (USD Million)

Table 52. World Steel-Concrete Hybrid Turbine Tower Average Price by Type (2021-2026) & (K US\$/Unit)

Table 53. World Steel-Concrete Hybrid Turbine Tower Average Price by Type (2027-2032) & (K US\$/Unit)

Table 54. World Steel-Concrete Hybrid Turbine Tower Production Value by Power, (USD Million), 2021 & 2025 & 2032

Table 55. World Steel-Concrete Hybrid Turbine Tower Production by Power (2021-2026) & (Units)

Table 56. World Steel-Concrete Hybrid Turbine Tower Production by Power (2027-2032) & (Units)

Table 57. World Steel-Concrete Hybrid Turbine Tower Production Value by Power (2021-2026) & (USD Million)

Table 58. World Steel-Concrete Hybrid Turbine Tower Production Value by Power (2027-2032) & (USD Million)

Table 59. World Steel-Concrete Hybrid Turbine Tower Average Price by Power

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

Table 60. World Steel-Concrete Hybrid Turbine Tower Average Price by Power

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

Table 61. World Steel-Concrete Hybrid Turbine Tower Production Value by Height, (USD Million), 2021 & 2025 & 2032

Table 62. World Steel-Concrete Hybrid Turbine Tower Production by Height (2021-2026) & (Units)

Table 63. World Steel-Concrete Hybrid Turbine Tower Production by Height (2027-2032) & (Units)

Table 64. World Steel-Concrete Hybrid Turbine Tower Production Value by Height (2021-2026) & (USD Million)

Table 65. World Steel-Concrete Hybrid Turbine Tower Production Value by Height (2027-2032) & (USD Million)

Table 66. World Steel-Concrete Hybrid Turbine Tower Average Price by Height (2021-2026) & (K US\$/Unit)

Table 67. World Steel-Concrete Hybrid Turbine Tower Average Price by Height (2027-2032) & (K US\$/Unit)

Table 68. World Steel-Concrete Hybrid Turbine Tower Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Steel-Concrete Hybrid Turbine Tower Production by Application (2021-2026) & (Units)

Table 70. World Steel-Concrete Hybrid Turbine Tower Production by Application (2027-2032) & (Units)

Table 71. World Steel-Concrete Hybrid Turbine Tower Production Value by Application (2021-2026) & (USD Million)

Table 72. World Steel-Concrete Hybrid Turbine Tower Production Value by Application (2027-2032) & (USD Million)

Table 73. World Steel-Concrete Hybrid Turbine Tower Average Price by Application (2021-2026) & (K US\$/Unit)

Table 74. World Steel-Concrete Hybrid Turbine Tower Average Price by Application (2027-2032) & (K US\$/Unit)

Table 75. Enercon Basic Information, Manufacturing Base and Competitors

Table 76. Enercon Major Business

Table 77. Enercon Steel-Concrete Hybrid Turbine Tower Product and Services

Table 78. Enercon Steel-Concrete Hybrid Turbine Tower Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Enercon Recent Developments/Updates

Table 80. Enercon Competitive Strengths & Weaknesses

Table 81. Vestas Basic Information, Manufacturing Base and Competitors

Table 82. Vestas Major Business

Table 83. Vestas Steel-Concrete Hybrid Turbine Tower Product and Services

Table 84. Vestas Steel-Concrete Hybrid Turbine Tower Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Vestas Recent Developments/Updates

Table 86. Vestas Competitive Strengths & Weaknesses

Table 87. Siemens Gamesa Basic Information, Manufacturing Base and Competitors

Table 88. Siemens Gamesa Major Business

Table 89. Siemens Gamesa Steel-Concrete Hybrid Turbine Tower Product and Services

Table 90. Siemens Gamesa Steel-Concrete Hybrid Turbine Tower Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Siemens Gamesa Recent Developments/Updates

Table 92. Siemens Gamesa Competitive Strengths & Weaknesses

Table 93. Windar Renovables Basic Information, Manufacturing Base and Competitors

Table 94. Windar Renovables Major Business

Table 95. Windar Renovables Steel-Concrete Hybrid Turbine Tower Product and Services

Table 96. Windar Renovables Steel-Concrete Hybrid Turbine Tower Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Windar Renovables Recent Developments/Updates

Table 98. Windar Renovables Competitive Strengths & Weaknesses

Table 99. Arcosa Towers Basic Information, Manufacturing Base and Competitors

Table 100. Arcosa Towers Major Business

Table 101. Arcosa Towers Steel-Concrete Hybrid Turbine Tower Product and Services

Table 102. Arcosa Towers Steel-Concrete Hybrid Turbine Tower Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Arcosa Towers Recent Developments/Updates

Table 104. Arcosa Towers Competitive Strengths & Weaknesses

Table 105. Marmen Basic Information, Manufacturing Base and Competitors

Table 106. Marmen Major Business

Table 107. Marmen Steel-Concrete Hybrid Turbine Tower Product and Services

Table 108. Marmen Steel-Concrete Hybrid Turbine Tower Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 109. Marmen Recent Developments/Updates

Table 110. Marmen Competitive Strengths & Weaknesses

Table 111. Shanghai Taisheng Basic Information, Manufacturing Base and Competitors

Table 112. Shanghai Taisheng Major Business

Table 113. Shanghai Taisheng Steel-Concrete Hybrid Turbine Tower Product and Services

Table 114. Shanghai Taisheng Steel-Concrete Hybrid Turbine Tower Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Shanghai Taisheng Recent Developments/Updates

Table 116. Shanghai Taisheng Competitive Strengths & Weaknesses

Table 117. Titan Wind Energy Basic Information, Manufacturing Base and Competitors

Table 118. Titan Wind Energy Major Business

Table 119. Titan Wind Energy Steel-Concrete Hybrid Turbine Tower Product and Services

Table 120. Titan Wind Energy Steel-Concrete Hybrid Turbine Tower Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Titan Wind Energy Recent Developments/Updates

Table 122. Titan Wind Energy Competitive Strengths & Weaknesses

Table 123. Haili Wind Power Basic Information, Manufacturing Base and Competitors

Table 124. Haili Wind Power Major Business

Table 125. Haili Wind Power Steel-Concrete Hybrid Turbine Tower Product and Services

Table 126. Haili Wind Power Steel-Concrete Hybrid Turbine Tower Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Haili Wind Power Recent Developments/Updates

Table 128. Haili Wind Power Competitive Strengths & Weaknesses

Table 129. Dajin Heavy Industry Basic Information, Manufacturing Base and Competitors

Table 130. Dajin Heavy Industry Major Business

Table 131. Dajin Heavy Industry Steel-Concrete Hybrid Turbine Tower Product and Services

Table 132. Dajin Heavy Industry Steel-Concrete Hybrid Turbine Tower Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Dajin Heavy Industry Recent Developments/Updates

Table 134. Dajin Heavy Industry Competitive Strengths & Weaknesses

Table 135. Global Key Players of Steel-Concrete Hybrid Turbine Tower Upstream (Raw Materials)

Table 136. Global Steel-Concrete Hybrid Turbine Tower Typical Customers

Table 137. Steel-Concrete Hybrid Turbine Tower Typical Distributors

List Of Figures

LIST OF FIGURES

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

(Units)

Figure 21. India Steel-Concrete Hybrid Turbine Tower Consumption (2021-2032) & (Units)

Figure 22. Producer Shipments of Steel-Concrete Hybrid Turbine Tower by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 23. Global Four-firm Concentration Ratios (CR4) for Steel-Concrete Hybrid Turbine Tower Markets in 2025

Figure 24. Global Four-firm Concentration Ratios (CR8) for Steel-Concrete Hybrid Turbine Tower Markets in 2025

Figure 25. United States VS China: Steel-Concrete Hybrid Turbine Tower Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 26. United States VS China: Steel-Concrete Hybrid Turbine Tower Production Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Steel-Concrete Hybrid Turbine Tower Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States Based Manufacturers Steel-Concrete Hybrid Turbine Tower Production Market Share 2025

Figure 29. China Based Manufacturers Steel-Concrete Hybrid Turbine Tower Production Market Share 2025

Figure 30. Rest of World Based Manufacturers Steel-Concrete Hybrid Turbine Tower Production Market Share 2025

Figure 31. World Steel-Concrete Hybrid Turbine Tower Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 32. World Steel-Concrete Hybrid Turbine Tower Production Value Market Share by Type in 2025

Figure 33. Cast-in-place Hybrid Tower

Figure 34. Precast Assembled Hybrid Tower

Figure 35. Post-tensioned Hybrid Tower

Figure 36. World Steel-Concrete Hybrid Turbine Tower Production Market Share by Type (2021-2032)

Figure 37. World Steel-Concrete Hybrid Turbine Tower Production Value Market Share by Type (2021-2032)

Figure 38. World Steel-Concrete Hybrid Turbine Tower Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 39. World Steel-Concrete Hybrid Turbine Tower Production Value by Power, (USD Million), 2021 & 2025 & 2032

Figure 40. World Steel-Concrete Hybrid Turbine Tower Production Value Market Share by Power in 2025

Figure 41. ?3 MW

Figure 42. 3?6 MW

Figure 43. 6?10 MW

Figure 44. ?10 MW

Figure 45. World Steel-Concrete Hybrid Turbine Tower Production Market Share by Power (2021-2032)

Figure 46. World Steel-Concrete Hybrid Turbine Tower Production Value Market Share by Power (2021-2032)

Figure 47. World Steel-Concrete Hybrid Turbine Tower Average Price by Power (2021-2032) & (K US\$/Unit)

Figure 48. World Steel-Concrete Hybrid Turbine Tower Production Value by Height, (USD Million), 2021 & 2025 & 2032

Figure 49. World Steel-Concrete Hybrid Turbine Tower Production Value Market Share by Height in 2025

Figure 50. 70?90 m

Figure 51. 90?120 m

Figure 52. 120?160 m

Figure 53. 160 m+

Figure 54. World Steel-Concrete Hybrid Turbine Tower Production Market Share by Height (2021-2032)

Figure 55. World Steel-Concrete Hybrid Turbine Tower Production Value Market Share by Height (2021-2032)

Figure 56. World Steel-Concrete Hybrid Turbine Tower Average Price by Height (2021-2032) & (K US\$/Unit)

Figure 57. World Steel-Concrete Hybrid Turbine Tower Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Steel-Concrete Hybrid Turbine Tower Production Value Market Share by Application in 2025

Figure 59. Onshore Wind Power

Figure 60. Offshore Wind Power

Figure 61. World Steel-Concrete Hybrid Turbine Tower Production Market Share by Application (2021-2032)

Figure 62. World Steel-Concrete Hybrid Turbine Tower Production Value Market Share by Application (2021-2032)

Figure 63. World Steel-Concrete Hybrid Turbine Tower Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 64. Steel-Concrete Hybrid Turbine Tower Industry Chain

Figure 65. Steel-Concrete Hybrid Turbine Tower Procurement Model

Figure 66. Steel-Concrete Hybrid Turbine Tower Sales Model

Figure 67. Steel-Concrete Hybrid Turbine Tower Sales Channels, Direct Sales, and

Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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