

Global Offshore Wind Turbine Tower Flange Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Offshore Wind Turbine Tower Flange market size is expected to reach \$ 540 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

In 2025, global Offshore Wind Turbine Tower Flange production reached approximately 99.6 k tons, with an average global market price of around US\$2,977 per ton. An offshore wind turbine tower flange is a large, precision-engineered steel ring used as a critical mechanical connection, joining sections of the massive tower or connecting the tower to the substructure (like a monopile or jacket foundation). These flanges must withstand extreme marine environments (salt, wind, waves) and immense structural loads, requiring robust materials, high precision, and specialized coatings to ensure the turbine's safety and decades-long operational integrity, acting as vital building blocks for the entire structure.

The offshore wind turbine tower flange market is expanding in line with accelerating offshore deployment. About 117 GW of new wind capacity was added in 2024, pushing cumulative global capacity past the 1 TW milestone, and the first half of 2025 saw 72.2 GW of additions, indicating continued momentum and increasing offshore share.

Turbine upsizing and the rise of floating technology are increasing per-turbine flange counts and individual flange dimensions, raising per-MW flange mass and fabrication complexity. Opportunities stem from large tender pipelines, localization and industrial policy support, and deeper-water deployment, while constraints include port and vessel bottlenecks, lengthy permitting and grid-connection processes, supply-chain and raw-material price volatility, and challenges in achieving consistent flange quality and standards ? all of which materially affect delivery schedules and costs. Manufacturers and supply-chain actors should therefore accelerate local manufacturing capacity, deepen design and QA standardization, and optimize logistics and inventory to mitigate risks and capture medium-to-long-term offshore growth.

This report studies the global Offshore Wind Turbine Tower Flange production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Offshore Wind Turbine Tower Flange 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 Offshore Wind Turbine Tower Flange that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Offshore Wind Turbine Tower Flange total production and demand, 2021-2032, (Kilotons)

Global Offshore Wind Turbine Tower Flange total production value, 2021-2032, (USD Million)

Global Offshore Wind Turbine Tower Flange production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Offshore Wind Turbine Tower Flange consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Offshore Wind Turbine Tower Flange domestic production, consumption, key domestic manufacturers and share

Global Offshore Wind Turbine Tower Flange production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Offshore Wind Turbine Tower Flange production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Offshore Wind Turbine Tower Flange production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Offshore Wind Turbine Tower Flange 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 Jiangyin Hengrun Heavy Industries, Iraeta, Shanxi Tianbao, Shanxi Shuanghuan Heavy Industry, Shanxi Jinrui Guangyuan Heavy Industry, FRISA, Taewoong, Euskal Forging, Flanschenwerk Thal, DHDZ, 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 Offshore Wind Turbine Tower Flange market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) 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 Offshore Wind Turbine Tower Flange Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Offshore Wind Turbine Tower Flange Market, Segmentation by Type:

16MW

Global Offshore Wind Turbine Tower Flange Market, Segmentation by Manufacturing Process:

Forged Flange

Rolled Flange

Global Offshore Wind Turbine Tower Flange Market, Segmentation by Diameter:

Diameter

Diameter 8?12 m

Diameter > 12 m

Global Offshore Wind Turbine Tower Flange Market, Segmentation by Application:

Shallow Sea

Deep Sea

Companies Profiled:

Jiangyin Hengrun Heavy Industries

Iraeta

Shanxi Tianbao

Shanxi Shuanghuan Heavy Industry

Shanxi Jinrui Guangyuan Heavy Industry

FRISA

Taewoong

Euskal Forging

Flanschenwerk Thal

DHDZ

Wuxi Paike New Materials

CHW Forge

TP-Products

Key Questions Answered:

Global Offshore Wind Turbine Tower Flange Supply, Demand and Key Producers, 2026-2032

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Offshore Wind Turbine Tower Flange Demand (2021-2032)
- 2.2 World Offshore Wind Turbine Tower Flange Consumption by Region
 - 2.2.1 World Offshore Wind Turbine Tower Flange Consumption by Region (2021-2026)
 - 2.2.2 World Offshore Wind Turbine Tower Flange Consumption Forecast by Region (2027-2032)
- 2.3 United States Offshore Wind Turbine Tower Flange Consumption (2021-2032)
- 2.4 China Offshore Wind Turbine Tower Flange Consumption (2021-2032)
- 2.5 Europe Offshore Wind Turbine Tower Flange Consumption (2021-2032)
- 2.6 Japan Offshore Wind Turbine Tower Flange Consumption (2021-2032)
- 2.7 South Korea Offshore Wind Turbine Tower Flange Consumption (2021-2032)

2.8 ASEAN Offshore Wind Turbine Tower Flange Consumption (2021-2032)

2.9 India Offshore Wind Turbine Tower Flange Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Offshore Wind Turbine Tower Flange Production Value by Manufacturer (2021-2026)

3.2 World Offshore Wind Turbine Tower Flange Production by Manufacturer (2021-2026)

3.3 World Offshore Wind Turbine Tower Flange Average Price by Manufacturer (2021-2026)

3.4 Offshore Wind Turbine Tower Flange Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Offshore Wind Turbine Tower Flange Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Offshore Wind Turbine Tower Flange in 2025

3.5.3 Global Concentration Ratios (CR8) for Offshore Wind Turbine Tower Flange in 2025

3.6 Offshore Wind Turbine Tower Flange Market: Overall Company Footprint Analysis

3.6.1 Offshore Wind Turbine Tower Flange Market: Region Footprint

3.6.2 Offshore Wind Turbine Tower Flange Market: Company Product Type Footprint

3.6.3 Offshore Wind Turbine Tower Flange 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: Offshore Wind Turbine Tower Flange Production Value Comparison

4.1.1 United States VS China: Offshore Wind Turbine Tower Flange Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Offshore Wind Turbine Tower Flange Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Offshore Wind Turbine Tower Flange Production Comparison

4.2.1 United States VS China: Offshore Wind Turbine Tower Flange Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Offshore Wind Turbine Tower Flange Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Offshore Wind Turbine Tower Flange Consumption Comparison

4.3.1 United States VS China: Offshore Wind Turbine Tower Flange Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Offshore Wind Turbine Tower Flange Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Offshore Wind Turbine Tower Flange Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Offshore Wind Turbine Tower Flange Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Offshore Wind Turbine Tower Flange Production Value (2021-2026)

4.4.3 United States Based Manufacturers Offshore Wind Turbine Tower Flange Production (2021-2026)

4.5 China Based Offshore Wind Turbine Tower Flange Manufacturers and Market Share

4.5.1 China Based Offshore Wind Turbine Tower Flange Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Offshore Wind Turbine Tower Flange Production Value (2021-2026)

4.5.3 China Based Manufacturers Offshore Wind Turbine Tower Flange Production (2021-2026)

4.6 Rest of World Based Offshore Wind Turbine Tower Flange Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Offshore Wind Turbine Tower Flange Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Offshore Wind Turbine Tower Flange Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Offshore Wind Turbine Tower Flange Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Offshore Wind Turbine Tower Flange Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 16MW

5.3 Market Segment by Type

5.3.1 World Offshore Wind Turbine Tower Flange Production by Type (2021-2032)

5.3.2 World Offshore Wind Turbine Tower Flange Production Value by Type (2021-2032)

5.3.3 World Offshore Wind Turbine Tower Flange Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY MANUFACTURING PROCESS

6.1 World Offshore Wind Turbine Tower Flange Market Size Overview by Manufacturing Process: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Manufacturing Process

6.2.1 Forged Flange

6.2.2 Rolled Flange

6.3 Market Segment by Manufacturing Process

6.3.1 World Offshore Wind Turbine Tower Flange Production by Manufacturing Process (2021-2032)

6.3.2 World Offshore Wind Turbine Tower Flange Production Value by Manufacturing Process (2021-2032)

6.3.3 World Offshore Wind Turbine Tower Flange Average Price by Manufacturing Process (2021-2032)

7 MARKET ANALYSIS BY DIAMETER

7.1 World Offshore Wind Turbine Tower Flange Market Size Overview by Diameter: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Diameter

7.2.1 Diameter 7.2.2 Diameter 8?12 m

7.2.3 Diameter > 12 m

7.3 Market Segment by Diameter

7.3.1 World Offshore Wind Turbine Tower Flange Production by Diameter (2021-2032)

7.3.2 World Offshore Wind Turbine Tower Flange Production Value by Diameter (2021-2032)

7.3.3 World Offshore Wind Turbine Tower Flange Average Price by Diameter (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Offshore Wind Turbine Tower Flange Market Size Overview by Application:
2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Shallow Sea

8.2.2 Deep Sea

8.3 Market Segment by Application

8.3.1 World Offshore Wind Turbine Tower Flange Production by Application
(2021-2032)

8.3.2 World Offshore Wind Turbine Tower Flange Production Value by Application
(2021-2032)

8.3.3 World Offshore Wind Turbine Tower Flange Average Price by Application
(2021-2032)

9 COMPANY PROFILES

9.1 Jiangyin Hengrun Heavy Industries

9.1.1 Jiangyin Hengrun Heavy Industries Details

9.1.2 Jiangyin Hengrun Heavy Industries Major Business

9.1.3 Jiangyin Hengrun Heavy Industries Offshore Wind Turbine Tower Flange
Product and Services

9.1.4 Jiangyin Hengrun Heavy Industries Offshore Wind Turbine Tower Flange
Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Jiangyin Hengrun Heavy Industries Recent Developments/Updates

9.1.6 Jiangyin Hengrun Heavy Industries Competitive Strengths & Weaknesses

9.2 Iraeta

9.2.1 Iraeta Details

9.2.2 Iraeta Major Business

9.2.3 Iraeta Offshore Wind Turbine Tower Flange Product and Services

9.2.4 Iraeta Offshore Wind Turbine Tower Flange Production, Price, Value, Gross
Margin and Market Share (2021-2026)

9.2.5 Iraeta Recent Developments/Updates

9.2.6 Iraeta Competitive Strengths & Weaknesses

9.3 Shanxi Tianbao

9.3.1 Shanxi Tianbao Details

9.3.2 Shanxi Tianbao Major Business

9.3.3 Shanxi Tianbao Offshore Wind Turbine Tower Flange Product and Services

9.3.4 Shanxi Tianbao Offshore Wind Turbine Tower Flange Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.3.5 Shanxi Tianbao Recent Developments/Updates

9.3.6 Shanxi Tianbao Competitive Strengths & Weaknesses

9.4 Shanxi Shuanghuan Heavy Industry

9.4.1 Shanxi Shuanghuan Heavy Industry Details

9.4.2 Shanxi Shuanghuan Heavy Industry Major Business

9.4.3 Shanxi Shuanghuan Heavy Industry Offshore Wind Turbine Tower Flange

Product and Services

9.4.4 Shanxi Shuanghuan Heavy Industry Offshore Wind Turbine Tower Flange

Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Shanxi Shuanghuan Heavy Industry Recent Developments/Updates

9.4.6 Shanxi Shuanghuan Heavy Industry Competitive Strengths & Weaknesses

9.5 Shanxi Jinrui Guangyuan Heavy Industry

9.5.1 Shanxi Jinrui Guangyuan Heavy Industry Details

9.5.2 Shanxi Jinrui Guangyuan Heavy Industry Major Business

9.5.3 Shanxi Jinrui Guangyuan Heavy Industry Offshore Wind Turbine Tower Flange

Product and Services

9.5.4 Shanxi Jinrui Guangyuan Heavy Industry Offshore Wind Turbine Tower Flange

Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Shanxi Jinrui Guangyuan Heavy Industry Recent Developments/Updates

9.5.6 Shanxi Jinrui Guangyuan Heavy Industry Competitive Strengths & Weaknesses

9.6 FRISA

9.6.1 FRISA Details

9.6.2 FRISA Major Business

9.6.3 FRISA Offshore Wind Turbine Tower Flange Product and Services

9.6.4 FRISA Offshore Wind Turbine Tower Flange Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 FRISA Recent Developments/Updates

9.6.6 FRISA Competitive Strengths & Weaknesses

9.7 Taewoong

9.7.1 Taewoong Details

9.7.2 Taewoong Major Business

9.7.3 Taewoong Offshore Wind Turbine Tower Flange Product and Services

9.7.4 Taewoong Offshore Wind Turbine Tower Flange Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Taewoong Recent Developments/Updates

9.7.6 Taewoong Competitive Strengths & Weaknesses

9.8 Euskal Forging

9.8.1 Euskal Forging Details

- 9.8.2 Euskal Forging Major Business
- 9.8.3 Euskal Forging Offshore Wind Turbine Tower Flange Product and Services
- 9.8.4 Euskal Forging Offshore Wind Turbine Tower Flange Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.8.5 Euskal Forging Recent Developments/Updates
- 9.8.6 Euskal Forging Competitive Strengths & Weaknesses
- 9.9 Flanschenwerk Thal
 - 9.9.1 Flanschenwerk Thal Details
 - 9.9.2 Flanschenwerk Thal Major Business
 - 9.9.3 Flanschenwerk Thal Offshore Wind Turbine Tower Flange Product and Services
 - 9.9.4 Flanschenwerk Thal Offshore Wind Turbine Tower Flange Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Flanschenwerk Thal Recent Developments/Updates
 - 9.9.6 Flanschenwerk Thal Competitive Strengths & Weaknesses
- 9.10 DHDZ
 - 9.10.1 DHDZ Details
 - 9.10.2 DHDZ Major Business
 - 9.10.3 DHDZ Offshore Wind Turbine Tower Flange Product and Services
 - 9.10.4 DHDZ Offshore Wind Turbine Tower Flange Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 DHDZ Recent Developments/Updates
 - 9.10.6 DHDZ Competitive Strengths & Weaknesses
- 9.11 Wuxi Paike New Materials
 - 9.11.1 Wuxi Paike New Materials Details
 - 9.11.2 Wuxi Paike New Materials Major Business
 - 9.11.3 Wuxi Paike New Materials Offshore Wind Turbine Tower Flange Product and Services
 - 9.11.4 Wuxi Paike New Materials Offshore Wind Turbine Tower Flange Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Wuxi Paike New Materials Recent Developments/Updates
 - 9.11.6 Wuxi Paike New Materials Competitive Strengths & Weaknesses
- 9.12 CHW Forge
 - 9.12.1 CHW Forge Details
 - 9.12.2 CHW Forge Major Business
 - 9.12.3 CHW Forge Offshore Wind Turbine Tower Flange Product and Services
 - 9.12.4 CHW Forge Offshore Wind Turbine Tower Flange Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 CHW Forge Recent Developments/Updates
 - 9.12.6 CHW Forge Competitive Strengths & Weaknesses

9.13 TP-Products

9.13.1 TP-Products Details

9.13.2 TP-Products Major Business

9.13.3 TP-Products Offshore Wind Turbine Tower Flange Product and Services

9.13.4 TP-Products Offshore Wind Turbine Tower Flange Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 TP-Products Recent Developments/Updates

9.13.6 TP-Products Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Offshore Wind Turbine Tower Flange Industry Chain

10.2 Offshore Wind Turbine Tower Flange Upstream Analysis

10.2.1 Offshore Wind Turbine Tower Flange Core Raw Materials

10.2.2 Main Manufacturers of Offshore Wind Turbine Tower Flange Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Offshore Wind Turbine Tower Flange Production Mode

10.6 Offshore Wind Turbine Tower Flange Procurement Model

10.7 Offshore Wind Turbine Tower Flange Industry Sales Model and Sales Channels

10.7.1 Offshore Wind Turbine Tower Flange Sales Model

10.7.2 Offshore Wind Turbine Tower Flange 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 Offshore Wind Turbine Tower Flange Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Offshore Wind Turbine Tower Flange Production Value by Region (2021-2026) & (USD Million)

Table 3. World Offshore Wind Turbine Tower Flange Production Value by Region (2027-2032) & (USD Million)

Table 4. World Offshore Wind Turbine Tower Flange Production Value Market Share by Region (2021-2026)

Table 5. World Offshore Wind Turbine Tower Flange Production Value Market Share by Region (2027-2032)

Table 6. World Offshore Wind Turbine Tower Flange Production by Region (2021-2026) & (Kilotons)

Table 7. World Offshore Wind Turbine Tower Flange Production by Region (2027-2032) & (Kilotons)

Table 8. World Offshore Wind Turbine Tower Flange Production Market Share by Region (2021-2026)

Table 9. World Offshore Wind Turbine Tower Flange Production Market Share by Region (2027-2032)

Table 10. World Offshore Wind Turbine Tower Flange Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Offshore Wind Turbine Tower Flange Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Offshore Wind Turbine Tower Flange Major Market Trends

Table 13. World Offshore Wind Turbine Tower Flange Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)

Table 14. World Offshore Wind Turbine Tower Flange Consumption by Region (2021-2026) & (Kilotons)

Table 15. World Offshore Wind Turbine Tower Flange Consumption Forecast by Region (2027-2032) & (Kilotons)

Table 16. World Offshore Wind Turbine Tower Flange Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Offshore Wind Turbine Tower Flange Producers in 2025

Table 18. World Offshore Wind Turbine Tower Flange Production by Manufacturer (2021-2026) & (Kilotons)

Table 19. Production Market Share of Key Offshore Wind Turbine Tower Flange Producers in 2025

Table 20. World Offshore Wind Turbine Tower Flange Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Offshore Wind Turbine Tower Flange Company Evaluation Quadrant

Table 22. World Offshore Wind Turbine Tower Flange Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Offshore Wind Turbine Tower Flange Production Site of Key Manufacturer

Table 24. Offshore Wind Turbine Tower Flange Market: Company Product Type Footprint

Table 25. Offshore Wind Turbine Tower Flange Market: Company Product Application Footprint

Table 26. Offshore Wind Turbine Tower Flange Competitive Factors

Table 27. Offshore Wind Turbine Tower Flange New Entrant and Capacity Expansion Plans

Table 28. Offshore Wind Turbine Tower Flange Mergers & Acquisitions Activity

Table 29. United States VS China Offshore Wind Turbine Tower Flange Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Offshore Wind Turbine Tower Flange Production Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 31. United States VS China Offshore Wind Turbine Tower Flange Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 32. United States Based Offshore Wind Turbine Tower Flange Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Offshore Wind Turbine Tower Flange Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Offshore Wind Turbine Tower Flange Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Offshore Wind Turbine Tower Flange Production (2021-2026) & (Kilotons)

Table 36. United States Based Manufacturers Offshore Wind Turbine Tower Flange Production Market Share (2021-2026)

Table 37. China Based Offshore Wind Turbine Tower Flange Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Offshore Wind Turbine Tower Flange Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Offshore Wind Turbine Tower Flange Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Offshore Wind Turbine Tower Flange Production, (2021-2026) & (Kilotons)

Table 41. China Based Manufacturers Offshore Wind Turbine Tower Flange Production Market Share (2021-2026)

Table 42. Rest of World Based Offshore Wind Turbine Tower Flange Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Offshore Wind Turbine Tower Flange Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Offshore Wind Turbine Tower Flange Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Offshore Wind Turbine Tower Flange Production, (2021-2026) & (Kilotons)

Table 46. Rest of World Based Manufacturers Offshore Wind Turbine Tower Flange Production Market Share (2021-2026)

Table 47. World Offshore Wind Turbine Tower Flange Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Offshore Wind Turbine Tower Flange Production by Type (2021-2026) & (Kilotons)

Table 49. World Offshore Wind Turbine Tower Flange Production by Type (2027-2032) & (Kilotons)

Table 50. World Offshore Wind Turbine Tower Flange Production Value by Type (2021-2026) & (USD Million)

Table 51. World Offshore Wind Turbine Tower Flange Production Value by Type (2027-2032) & (USD Million)

Table 52. World Offshore Wind Turbine Tower Flange Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Offshore Wind Turbine Tower Flange Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Offshore Wind Turbine Tower Flange Production Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032

Table 55. World Offshore Wind Turbine Tower Flange Production by Manufacturing Process (2021-2026) & (Kilotons)

Table 56. World Offshore Wind Turbine Tower Flange Production by Manufacturing Process (2027-2032) & (Kilotons)

Table 57. World Offshore Wind Turbine Tower Flange Production Value by Manufacturing Process (2021-2026) & (USD Million)

Table 58. World Offshore Wind Turbine Tower Flange Production Value by Manufacturing Process (2027-2032) & (USD Million)

Table 59. World Offshore Wind Turbine Tower Flange Average Price by Manufacturing

Process (2021-2026) & (US\$/Ton)

Table 60. World Offshore Wind Turbine Tower Flange Average Price by Manufacturing Process (2027-2032) & (US\$/Ton)

Table 61. World Offshore Wind Turbine Tower Flange Production Value by Diameter, (USD Million), 2021 & 2025 & 2032

Table 62. World Offshore Wind Turbine Tower Flange Production by Diameter (2021-2026) & (Kilotons)

Table 63. World Offshore Wind Turbine Tower Flange Production by Diameter (2027-2032) & (Kilotons)

Table 64. World Offshore Wind Turbine Tower Flange Production Value by Diameter (2021-2026) & (USD Million)

Table 65. World Offshore Wind Turbine Tower Flange Production Value by Diameter (2027-2032) & (USD Million)

Table 66. World Offshore Wind Turbine Tower Flange Average Price by Diameter (2021-2026) & (US\$/Ton)

Table 67. World Offshore Wind Turbine Tower Flange Average Price by Diameter (2027-2032) & (US\$/Ton)

Table 68. World Offshore Wind Turbine Tower Flange Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Offshore Wind Turbine Tower Flange Production by Application (2021-2026) & (Kilotons)

Table 70. World Offshore Wind Turbine Tower Flange Production by Application (2027-2032) & (Kilotons)

Table 71. World Offshore Wind Turbine Tower Flange Production Value by Application (2021-2026) & (USD Million)

Table 72. World Offshore Wind Turbine Tower Flange Production Value by Application (2027-2032) & (USD Million)

Table 73. World Offshore Wind Turbine Tower Flange Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Offshore Wind Turbine Tower Flange Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Jiangyin Hengrun Heavy Industries Basic Information, Manufacturing Base and Competitors

Table 76. Jiangyin Hengrun Heavy Industries Major Business

Table 77. Jiangyin Hengrun Heavy Industries Offshore Wind Turbine Tower Flange Product and Services

Table 78. Jiangyin Hengrun Heavy Industries Offshore Wind Turbine Tower Flange Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 79. Jiangyin Hengrun Heavy Industries Recent Developments/Updates
- Table 80. Jiangyin Hengrun Heavy Industries Competitive Strengths & Weaknesses
- Table 81. Iraeta Basic Information, Manufacturing Base and Competitors
- Table 82. Iraeta Major Business
- Table 83. Iraeta Offshore Wind Turbine Tower Flange Product and Services
- Table 84. Iraeta Offshore Wind Turbine Tower Flange Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Iraeta Recent Developments/Updates
- Table 86. Iraeta Competitive Strengths & Weaknesses
- Table 87. Shanxi Tianbao Basic Information, Manufacturing Base and Competitors
- Table 88. Shanxi Tianbao Major Business
- Table 89. Shanxi Tianbao Offshore Wind Turbine Tower Flange Product and Services
- Table 90. Shanxi Tianbao Offshore Wind Turbine Tower Flange Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Shanxi Tianbao Recent Developments/Updates
- Table 92. Shanxi Tianbao Competitive Strengths & Weaknesses
- Table 93. Shanxi Shuanghuan Heavy Industry Basic Information, Manufacturing Base and Competitors
- Table 94. Shanxi Shuanghuan Heavy Industry Major Business
- Table 95. Shanxi Shuanghuan Heavy Industry Offshore Wind Turbine Tower Flange Product and Services
- Table 96. Shanxi Shuanghuan Heavy Industry Offshore Wind Turbine Tower Flange Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Shanxi Shuanghuan Heavy Industry Recent Developments/Updates
- Table 98. Shanxi Shuanghuan Heavy Industry Competitive Strengths & Weaknesses
- Table 99. Shanxi Jinrui Guangyuan Heavy Industry Basic Information, Manufacturing Base and Competitors
- Table 100. Shanxi Jinrui Guangyuan Heavy Industry Major Business
- Table 101. Shanxi Jinrui Guangyuan Heavy Industry Offshore Wind Turbine Tower Flange Product and Services
- Table 102. Shanxi Jinrui Guangyuan Heavy Industry Offshore Wind Turbine Tower Flange Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Shanxi Jinrui Guangyuan Heavy Industry Recent Developments/Updates
- Table 104. Shanxi Jinrui Guangyuan Heavy Industry Competitive Strengths & Weaknesses

- Table 105. FRISA Basic Information, Manufacturing Base and Competitors
- Table 106. FRISA Major Business
- Table 107. FRISA Offshore Wind Turbine Tower Flange Product and Services
- Table 108. FRISA Offshore Wind Turbine Tower Flange Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. FRISA Recent Developments/Updates
- Table 110. FRISA Competitive Strengths & Weaknesses
- Table 111. Taewoong Basic Information, Manufacturing Base and Competitors
- Table 112. Taewoong Major Business
- Table 113. Taewoong Offshore Wind Turbine Tower Flange Product and Services
- Table 114. Taewoong Offshore Wind Turbine Tower Flange Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Taewoong Recent Developments/Updates
- Table 116. Taewoong Competitive Strengths & Weaknesses
- Table 117. Euskal Forging Basic Information, Manufacturing Base and Competitors
- Table 118. Euskal Forging Major Business
- Table 119. Euskal Forging Offshore Wind Turbine Tower Flange Product and Services
- Table 120. Euskal Forging Offshore Wind Turbine Tower Flange Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Euskal Forging Recent Developments/Updates
- Table 122. Euskal Forging Competitive Strengths & Weaknesses
- Table 123. Flanschenwerk Thal Basic Information, Manufacturing Base and Competitors
- Table 124. Flanschenwerk Thal Major Business
- Table 125. Flanschenwerk Thal Offshore Wind Turbine Tower Flange Product and Services
- Table 126. Flanschenwerk Thal Offshore Wind Turbine Tower Flange Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Flanschenwerk Thal Recent Developments/Updates
- Table 128. Flanschenwerk Thal Competitive Strengths & Weaknesses
- Table 129. DHDZ Basic Information, Manufacturing Base and Competitors
- Table 130. DHDZ Major Business
- Table 131. DHDZ Offshore Wind Turbine Tower Flange Product and Services
- Table 132. DHDZ Offshore Wind Turbine Tower Flange Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 133. DHDZ Recent Developments/Updates

Table 134. DHDZ Competitive Strengths & Weaknesses

Table 135. Wuxi Paike New Materials Basic Information, Manufacturing Base and Competitors

Table 136. Wuxi Paike New Materials Major Business

Table 137. Wuxi Paike New Materials Offshore Wind Turbine Tower Flange Product and Services

Table 138. Wuxi Paike New Materials Offshore Wind Turbine Tower Flange Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Wuxi Paike New Materials Recent Developments/Updates

Table 140. Wuxi Paike New Materials Competitive Strengths & Weaknesses

Table 141. CHW Forge Basic Information, Manufacturing Base and Competitors

Table 142. CHW Forge Major Business

Table 143. CHW Forge Offshore Wind Turbine Tower Flange Product and Services

Table 144. CHW Forge Offshore Wind Turbine Tower Flange Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. CHW Forge Recent Developments/Updates

Table 146. CHW Forge Competitive Strengths & Weaknesses

Table 147. TP-Products Basic Information, Manufacturing Base and Competitors

Table 148. TP-Products Major Business

Table 149. TP-Products Offshore Wind Turbine Tower Flange Product and Services

Table 150. TP-Products Offshore Wind Turbine Tower Flange Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. TP-Products Recent Developments/Updates

Table 152. TP-Products Competitive Strengths & Weaknesses

Table 153. Global Key Players of Offshore Wind Turbine Tower Flange Upstream (Raw Materials)

Table 154. Global Offshore Wind Turbine Tower Flange Typical Customers

Table 155. Offshore Wind Turbine Tower Flange Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Offshore Wind Turbine Tower Flange Picture

Figure 2. World Offshore Wind Turbine Tower Flange Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Offshore Wind Turbine Tower Flange Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Offshore Wind Turbine Tower Flange Production (2021-2032) & (Kilotons)

Figure 5. World Offshore Wind Turbine Tower Flange Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Offshore Wind Turbine Tower Flange Production Value Market Share by Region (2021-2032)

Figure 7. World Offshore Wind Turbine Tower Flange Production Market Share by Region (2021-2032)

Figure 8. North America Offshore Wind Turbine Tower Flange Production (2021-2032) & (Kilotons)

Figure 9. Europe Offshore Wind Turbine Tower Flange Production (2021-2032) & (Kilotons)

Figure 10. China Offshore Wind Turbine Tower Flange Production (2021-2032) & (Kilotons)

Figure 11. Japan Offshore Wind Turbine Tower Flange Production (2021-2032) & (Kilotons)

Figure 12. Offshore Wind Turbine Tower Flange Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Offshore Wind Turbine Tower Flange Consumption (2021-2032) & (Kilotons)

Figure 15. World Offshore Wind Turbine Tower Flange Consumption Market Share by Region (2021-2032)

Figure 16. United States Offshore Wind Turbine Tower Flange Consumption (2021-2032) & (Kilotons)

Figure 17. China Offshore Wind Turbine Tower Flange Consumption (2021-2032) & (Kilotons)

Figure 18. Europe Offshore Wind Turbine Tower Flange Consumption (2021-2032) & (Kilotons)

Figure 19. Japan Offshore Wind Turbine Tower Flange Consumption (2021-2032) & (Kilotons)

Figure 20. South Korea Offshore Wind Turbine Tower Flange Consumption (2021-2032) & (Kilotons)

Figure 21. ASEAN Offshore Wind Turbine Tower Flange Consumption (2021-2032) & (Kilotons)

Figure 22. India Offshore Wind Turbine Tower Flange Consumption (2021-2032) & (Kilotons)

Figure 23. Producer Shipments of Offshore Wind Turbine Tower Flange by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Offshore Wind Turbine Tower Flange Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Offshore Wind Turbine Tower Flange Markets in 2025

Figure 26. United States VS China: Offshore Wind Turbine Tower Flange Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Offshore Wind Turbine Tower Flange Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Offshore Wind Turbine Tower Flange Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Offshore Wind Turbine Tower Flange Production Market Share 2025

Figure 30. China Based Manufacturers Offshore Wind Turbine Tower Flange Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Offshore Wind Turbine Tower Flange Production Market Share 2025

Figure 32. World Offshore Wind Turbine Tower Flange Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Offshore Wind Turbine Tower Flange Production Value Market Share by Type in 2025

Figure 34. 16MW

Figure 37. World Offshore Wind Turbine Tower Flange Production Market Share by Type (2021-2032)

Figure 38. World Offshore Wind Turbine Tower Flange Production Value Market Share by Type (2021-2032)

Figure 39. World Offshore Wind Turbine Tower Flange Average Price by Type (2021-2032) & (US\$/Ton)

Figure 40. World Offshore Wind Turbine Tower Flange Production Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032

Figure 41. World Offshore Wind Turbine Tower Flange Production Value Market Share by Manufacturing Process in 2025

Figure 42. Forged Flange

Figure 43. Rolled Flange

Figure 44. World Offshore Wind Turbine Tower Flange Production Market Share by Manufacturing Process (2021-2032)

Figure 45. World Offshore Wind Turbine Tower Flange Production Value Market Share by Manufacturing Process (2021-2032)

Figure 46. World Offshore Wind Turbine Tower Flange Average Price by Manufacturing Process (2021-2032) & (US\$/Ton)

Figure 47. World Offshore Wind Turbine Tower Flange Production Value by Diameter, (USD Million), 2021 & 2025 & 2032

Figure 48. World Offshore Wind Turbine Tower Flange Production Value Market Share by Diameter in 2025

Figure 49. Diameter Figure 50. Diameter 8?12 m

Figure 51. Diameter > 12 m

Figure 52. World Offshore Wind Turbine Tower Flange Production Market Share by Diameter (2021-2032)

Figure 53. World Offshore Wind Turbine Tower Flange Production Value Market Share by Diameter (2021-2032)

Figure 54. World Offshore Wind Turbine Tower Flange Average Price by Diameter (2021-2032) & (US\$/Ton)

Figure 55. World Offshore Wind Turbine Tower Flange Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Offshore Wind Turbine Tower Flange Production Value Market Share by Application in 2025

Figure 57. Shallow Sea

Figure 58. Deep Sea

Figure 59. World Offshore Wind Turbine Tower Flange Production Market Share by Application (2021-2032)

Figure 60. World Offshore Wind Turbine Tower Flange Production Value Market Share by Application (2021-2032)

Figure 61. World Offshore Wind Turbine Tower Flange Average Price by Application (2021-2032) & (US\$/Ton)

Figure 62. Offshore Wind Turbine Tower Flange Industry Chain

Figure 63. Offshore Wind Turbine Tower Flange Procurement Model

Figure 64. Offshore Wind Turbine Tower Flange Sales Model

Figure 65. Offshore Wind Turbine Tower Flange Sales Channels, Direct Sales, and Distribution

Figure 66. Methodology

Figure 67. Research Process and Data Source

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