

Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW market size was valued at US\$ 360 million in 2025 and is forecast to a readjusted size of US\$ 698 million by 2032 with a CAGR of 8.3% during review period.

Ultra-heavy steam turbine rotor forgings for generators above 1000MW refer to integral rotor blanks manufactured from vacuum-melted ingots of 600 metric tons or above, forged under a press of at least 10,000 metric tons, and intended for constructing 1000MW-class ultra-supercritical thermal turbine generators (full-speed units at 3000/3600 rpm). These forgings must operate continuously for decades under extreme conditions: temperatures up to 620°, pressures up to 35MPa, and centrifugal forces at 3000 rpm. They are typically made from advanced martensitic or modified ferritic heat-resistant steels (e.g., FB2, G115), requiring exceptional creep-rupture strength, low ductile-brittle transition temperature, excellent high-cycle fatigue resistance, and rigorous center soundness. This product category represents a pinnacle of global heavy-duty extreme manufacturing, as its domestic production capability directly determines a country's ability to independently build ultra-supercritical coal plants and large nuclear stations, and serves as the ultimate yardstick for a nation's heavy forging industry.

Ultra-heavy rotor forgings for 1000MW and above thermal turbine generators represent the pinnacle of extreme manufacturing, characterized by high unit prices and extremely long lead times. In 2025-2026, imported FB2 HP/IP rotor forgings are priced at 3.0 to

4.0 million US dollars per unit, while domestic equivalents range from 2.0 to 2.5 million US dollars per unit; LP rotor forgings (70 to 110 tons) command 3.5 to 5.0 million US dollars each. Gross margins diverge sharply: Japan Steel Works, with its long-standing monopoly and mature process database, maintains margins of 35% to 45%; China's First Heavy Industries and Erzhong Equipment, still in import-substitution ramp-up, achieve 20% to 25% but with room for improvement as batch orders and process stabilization progress. Cost structures are dominated by ingot melting (including specialty alloys and vacuum treatment), accounting for 40% to 50% of total cost; heavy forging and heat treatment account for 25% to 30%; NDT and rough machining account for 15% to 20%. Downstream, new 1000MW+ ultra-supercritical coal units absorb about 85% of annual rotor forging consumption, life-extension and efficiency upgrades (HP-IP rotor replacement) account for 10%, and strategic reserves and exports for 5%. The core driver of incremental demand is the baseload power necessity for AI data centers: in 2026, 104 coal projects are scheduled for commissioning globally (85 in China alone); GE Vernova's heavy-duty gas turbine order book is sold out through 2031 with a 20% price hike; Siemens Energy's backlog stands at 60 billion US dollars. These directly boost procurement of 1000MW class turbine generators, cascading to rotor forgings. Supply-side rigidities are stark: only five companies globally have proven capacity – Japan Steel Works, CFHI, Erzhong Equipment, France's Creusot Forge, and Doosan Enerbility – but the latter two have significantly reduced influence. JSW plans to raise capacity to 1.5 times by fiscal year 2028, but this will take years to materialize, leaving a supply gap throughout. The competitive landscape features a “one superpower, two challengers” structure: JSW remains the high-end monopolist thanks to its decades-long process database; CFHI and Erzhong are rapidly catching up, having achieved full import substitution for FB2 series forgings. In the first quarter of 2026, Erzhong secured batch orders for both thermal and nuclear rotor forgings, while CFHI completed its first 620°C FB2 forging for Shanghai Electric, and G115 novel martensitic steel saw engineering application in the world's first 630°C double-reheat unit – signaling Chinese firms taking early lead in next-generation material grades. Key uncertainties include: first, the speed of yield learning curve for CFHI and Erzhong from prototype to stable mass production; second, whether AI data center build-out accelerates beyond current projections, widening the supply-demand imbalance; third, the pace of commercialization of materials for 630°C+ advanced ultra-supercritical units, which will determine the timeline for next-generation material transition. In summary, rotor forgings above 1000MW will face sustained supply shortages over the next five years, with pricing power shifting upward. The pace of import substitution will determine downstream turbine manufacturers' bargaining power and supply chain security, while the inherently time-consuming nature of extreme manufacturing process accumulation (not replicable by short-term capital investment) will keep strategic value

persistently high.

This report is a detailed and comprehensive analysis for global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Japan Steel Works, China First Heavy Industries, China Erzhong Equipment (DEC), France Creusot Forge (ex-Areva/Le Creusot), Doosan Enerbility, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Traditional Ferritic Steel (30Cr1Mo1V, max service temp 535-566°C, 10?h creep strength 80-120 MPa)

Advanced Ferritic Steel (FB2, 10%Cr, max service temp 600-620°C, 10?h creep strength 130-160 MPa)

Novel Martensitic Steel (G115, MarBN, max service temp 630-650°C, 10?h creep strength ?180 MPa)

Market segment by Ultrasonic Testing Acceptance Levels

Class 1 (single flat-bottom hole equivalent ?1.0mm, no clustered indications, no cracks)

Class 2 (equivalent flat-bottom hole ?2.0mm, isolated indications allowed, no cracks)

Class 3 (equivalent flat-bottom hole $\leq 3.0\text{mm}$, limited cluster allowed, no linear defects)

Market segment by Application

New Ultra-supercritical Coal Power (1000MW+)

Existing Unit Life Extension & Efficiency Upgrade

Nuclear Half-speed Turbine Generators

Others

Major players covered

Japan Steel Works

China First Heavy Industries

China Erzhong Equipment (DEC)

France Creusot Forge (ex-Areva/Le Creusot)

Doosan Enerbility

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW, with price, sales quantity, revenue, and global market share of Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW from 2021 to 2026.

Chapter 3, the Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW.

Chapter 14 and 15, to describe Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW sales channel, distributors, customers, research findings

and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Traditional Ferritic Steel (30Cr1Mo1V, max service temp 535-566°C, 10⁷h creep strength 80-120 MPa)

1.3.3 Advanced Ferritic Steel (FB2, 10%Cr, max service temp 600-620°C, 10⁷h creep strength 130-160 MPa)

1.3.4 Novel Martensitic Steel (G115, MarBN, max service temp 630-650°C, 10⁷h creep strength >180 MPa)

1.4 Market Analysis by Ultrasonic Testing Acceptance Levels

1.4.1 Overview: Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Ultrasonic Testing Acceptance Levels: 2021 Versus 2025 Versus 2032

1.4.2 Class 1 (single flat-bottom hole equivalent $\leq 1.0\text{mm}$, no clustered indications, no cracks)

1.4.3 Class 2 (equivalent flat-bottom hole $\leq 2.0\text{mm}$, isolated indications allowed, no cracks)

1.4.4 Class 3 (equivalent flat-bottom hole $\leq 3.0\text{mm}$, limited cluster allowed, no linear defects)

1.5 Market Analysis by Application

1.5.1 Overview: Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.5.2 New Ultra-supercritical Coal Power (1000MW+)

1.5.3 Existing Unit Life Extension & Efficiency Upgrade

1.5.4 Nuclear Half-speed Turbine Generators

1.5.5 Others

1.6 Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Market Size & Forecast

1.6.1 Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021 & 2025 & 2032)

1.6.2 Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity (2021-2032)

1.6.3 Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above

1000MW Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Japan Steel Works

2.1.1 Japan Steel Works Details

2.1.2 Japan Steel Works Major Business

2.1.3 Japan Steel Works Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Product and Services

2.1.4 Japan Steel Works Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Japan Steel Works Recent Developments/Updates

2.2 China First Heavy Industries

2.2.1 China First Heavy Industries Details

2.2.2 China First Heavy Industries Major Business

2.2.3 China First Heavy Industries Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Product and Services

2.2.4 China First Heavy Industries Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 China First Heavy Industries Recent Developments/Updates

2.3 China Erzhong Equipment (DEC)

2.3.1 China Erzhong Equipment (DEC) Details

2.3.2 China Erzhong Equipment (DEC) Major Business

2.3.3 China Erzhong Equipment (DEC) Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Product and Services

2.3.4 China Erzhong Equipment (DEC) Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 China Erzhong Equipment (DEC) Recent Developments/Updates

2.4 France Creusot Forge (ex?Areva/Le Creusot)

2.4.1 France Creusot Forge (ex?Areva/Le Creusot) Details

2.4.2 France Creusot Forge (ex?Areva/Le Creusot) Major Business

2.4.3 France Creusot Forge (ex?Areva/Le Creusot) Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Product and Services

2.4.4 France Creusot Forge (ex?Areva/Le Creusot) Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 France Creusot Forge (ex?Areva/Le Creusot) Recent Developments/Updates
2.5 Doosan Enerbility

2.5.1 Doosan Enerbility Details

2.5.2 Doosan Enerbility Major Business

2.5.3 Doosan Enerbility Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Product and Services

2.5.4 Doosan Enerbility Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Doosan Enerbility Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: ULTRA?HEAVY STEAM TURBINE ROTOR FORGINGS FOR GENERATORS ABOVE 1000MW BY MANUFACTURER

3.1 Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Manufacturer (2021-2026)

3.2 Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Revenue by Manufacturer (2021-2026)

3.3 Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Manufacturer Market Share in 2025

3.4.3 Top 6 Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Manufacturer Market Share in 2025

3.5 Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Market: Overall Company Footprint Analysis

3.5.1 Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Market: Region Footprint

3.5.2 Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Market: Company Product Type Footprint

3.5.3 Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Market Size by Region

4.1.1 Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Region (2021-2032)

4.1.2 Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Region (2021-2032)

4.1.3 Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Average Price by Region (2021-2032)

4.2 North America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032)

4.3 Europe Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032)

4.4 Asia-Pacific Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032)

4.5 South America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032)

4.6 Middle East & Africa Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Type (2021-2032)

5.2 Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Type (2021-2032)

5.3 Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Application (2021-2032)

6.2 Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Application (2021-2032)

6.3 Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Type (2021-2032)

7.2 North America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Application (2021-2032)

7.3 North America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Market Size by Country

7.3.1 North America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Country (2021-2032)

7.3.2 North America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Type (2021-2032)

8.2 Europe Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Application (2021-2032)

8.3 Europe Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Market Size by Country

8.3.1 Europe Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Country (2021-2032)

8.3.2 Europe Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Ultra?heavy Steam Turbine Rotor Forgings for Generators above

1000MW Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Market Size by Region

9.3.1 Asia-Pacific Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Type (2021-2032)

10.2 South America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Application (2021-2032)

10.3 South America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Market Size by Country

10.3.1 South America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Country (2021-2032)

10.3.2 South America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Market Size by Country

11.3.1 Middle East & Africa Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Country (2021-2032)

- 11.3.2 Middle East & Africa Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Country (2021-2032)
- 11.3.3 Turkey Market Size and Forecast (2021-2032)
- 11.3.4 Egypt Market Size and Forecast (2021-2032)
- 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
- 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Market Drivers
- 12.2 Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Market Restraints
- 12.3 Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW
- 13.3 Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Typical Distributors

14.3 Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Ultrasonic Testing Acceptance Levels, (USD Million), 2021 & 2025 & 2032

Table 3. Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 4. Japan Steel Works Basic Information, Manufacturing Base and Competitors

Table 5. Japan Steel Works Major Business

Table 6. Japan Steel Works Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Product and Services

Table 7. Japan Steel Works Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 8. Japan Steel Works Recent Developments/Updates

Table 9. China First Heavy Industries Basic Information, Manufacturing Base and Competitors

Table 10. China First Heavy Industries Major Business

Table 11. China First Heavy Industries Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Product and Services

Table 12. China First Heavy Industries Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 13. China First Heavy Industries Recent Developments/Updates

Table 14. China Erzhong Equipment (DEC) Basic Information, Manufacturing Base and Competitors

Table 15. China Erzhong Equipment (DEC) Major Business

Table 16. China Erzhong Equipment (DEC) Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Product and Services

Table 17. China Erzhong Equipment (DEC) Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 18. China Erzhong Equipment (DEC) Recent Developments/Updates

Table 19. France Creusot Forge (ex?Areva/Le Creusot) Basic Information, Manufacturing Base and Competitors

- Table 20. France Creusot Forge (ex?Areva/Le Creusot) Major Business
- Table 21. France Creusot Forge (ex?Areva/Le Creusot) Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Product and Services
- Table 22. France Creusot Forge (ex?Areva/Le Creusot) Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 23. France Creusot Forge (ex?Areva/Le Creusot) Recent Developments/Updates
- Table 24. Doosan Enerbility Basic Information, Manufacturing Base and Competitors
- Table 25. Doosan Enerbility Major Business
- Table 26. Doosan Enerbility Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Product and Services
- Table 27. Doosan Enerbility Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 28. Doosan Enerbility Recent Developments/Updates
- Table 29. Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Manufacturer (2021-2026) & (Units)
- Table 30. Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Revenue by Manufacturer (2021-2026) & (USD Million)
- Table 31. Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 32. Market Position of Manufacturers in Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
- Table 33. Head Office and Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Production Site of Key Manufacturer
- Table 34. Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Market: Company Product Type Footprint
- Table 35. Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Market: Company Product Application Footprint
- Table 36. Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW New Market Entrants and Barriers to Market Entry
- Table 37. Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Mergers, Acquisition, Agreements, and Collaborations
- Table 38. Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
- Table 39. Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Region (2021-2026) & (Units)
- Table 40. Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above

1000MW Sales Quantity by Region (2027-2032) & (Units)

Table 41. Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Region (2021-2026) & (USD Million)

Table 42. Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Region (2027-2032) & (USD Million)

Table 43. Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Average Price by Region (2021-2026) & (US\$/Unit)

Table 44. Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Average Price by Region (2027-2032) & (US\$/Unit)

Table 45. Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Type (2021-2026) & (Units)

Table 46. Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Type (2027-2032) & (Units)

Table 47. Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Type (2021-2026) & (USD Million)

Table 48. Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Type (2027-2032) & (USD Million)

Table 49. Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Average Price by Type (2021-2026) & (US\$/Unit)

Table 50. Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Average Price by Type (2027-2032) & (US\$/Unit)

Table 51. Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Application (2021-2026) & (Units)

Table 52. Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Application (2027-2032) & (Units)

Table 53. Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Application (2021-2026) & (USD Million)

Table 54. Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Application (2027-2032) & (USD Million)

Table 55. Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Average Price by Application (2021-2026) & (US\$/Unit)

Table 56. Global Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Average Price by Application (2027-2032) & (US\$/Unit)

Table 57. North America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Type (2021-2026) & (Units)

Table 58. North America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Type (2027-2032) & (Units)

Table 59. North America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Application (2021-2026) & (Units)

Table 60. North America Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Application (2027-2032) & (Units)

Table 61. North America Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Country (2021-2026) & (Units)

Table 62. North America Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Country (2027-2032) & (Units)

Table 63. North America Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Country (2021-2026) & (USD Million)

Table 64. North America Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Country (2027-2032) & (USD Million)

Table 65. Europe Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Type (2021-2026) & (Units)

Table 66. Europe Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Type (2027-2032) & (Units)

Table 67. Europe Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Application (2021-2026) & (Units)

Table 68. Europe Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Application (2027-2032) & (Units)

Table 69. Europe Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Country (2021-2026) & (Units)

Table 70. Europe Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Country (2027-2032) & (Units)

Table 71. Europe Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Country (2021-2026) & (USD Million)

Table 72. Europe Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Country (2027-2032) & (USD Million)

Table 73. Asia-Pacific Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Type (2021-2026) & (Units)

Table 74. Asia-Pacific Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Type (2027-2032) & (Units)

Table 75. Asia-Pacific Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Application (2021-2026) & (Units)

Table 76. Asia-Pacific Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Application (2027-2032) & (Units)

Table 77. Asia-Pacific Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Region (2021-2026) & (Units)

Table 78. Asia-Pacific Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Region (2027-2032) & (Units)

Table 79. Asia-Pacific Ultra-heavy Steam Turbine Rotor Forgings for Generators above

1000MW Consumption Value by Region (2021-2026) & (USD Million)

Table 80. Asia-Pacific Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Region (2027-2032) & (USD Million)

Table 81. South America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Type (2021-2026) & (Units)

Table 82. South America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Type (2027-2032) & (Units)

Table 83. South America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Application (2021-2026) & (Units)

Table 84. South America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Application (2027-2032) & (Units)

Table 85. South America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Country (2021-2026) & (Units)

Table 86. South America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Country (2027-2032) & (Units)

Table 87. South America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Country (2021-2026) & (USD Million)

Table 88. South America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Country (2027-2032) & (USD Million)

Table 89. Middle East & Africa Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Type (2021-2026) & (Units)

Table 90. Middle East & Africa Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Type (2027-2032) & (Units)

Table 91. Middle East & Africa Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Application (2021-2026) & (Units)

Table 92. Middle East & Africa Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Application (2027-2032) & (Units)

Table 93. Middle East & Africa Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Country (2021-2026) & (Units)

Table 94. Middle East & Africa Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity by Country (2027-2032) & (Units)

Table 95. Middle East & Africa Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Country (2021-2026) & (USD Million)

Table 96. Middle East & Africa Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Country (2027-2032) & (USD Million)

Table 97. Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Raw Material

Table 98. Key Manufacturers of Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Raw Materials

Table 99. Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Typical Distributors

Table 100. Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW
Picture

Figure 2. Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Revenue Market Share by Type in 2025

Figure 4. Traditional Ferritic Steel (30Cr1Mo1V, max service temp 535-566°C, 10⁵h creep strength 80-120 MPa) Examples

Figure 5. Advanced Ferritic Steel (FB2, 10%Cr, max service temp 600-620°C, 10⁵h creep strength 130-160 MPa) Examples

Figure 6. Novel Martensitic Steel (G115, MarBN, max service temp 630-650°C, 10⁵h creep strength >180 MPa) Examples

Figure 7. Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Revenue by Ultrasonic Testing Acceptance Levels, (USD Million), 2021 & 2025 & 2032

Figure 8. Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Revenue Market Share by Ultrasonic Testing Acceptance Levels in 2025

Figure 9. Class 1 (single flat-bottom hole equivalent $\leq 1.0\text{mm}$, no clustered indications, no cracks) Examples

Figure 10. Class 2 (equivalent flat-bottom hole $\leq 2.0\text{mm}$, isolated indications allowed, no cracks) Examples

Figure 11. Class 3 (equivalent flat-bottom hole $\leq 3.0\text{mm}$, limited cluster allowed, no linear defects) Examples

Figure 12. Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 13. Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Revenue Market Share by Application in 2025

Figure 14. New Ultra-supercritical Coal Power (1000MW+) Examples

Figure 15. Existing Unit Life Extension & Efficiency Upgrade Examples

Figure 16. Nuclear Half-speed Turbine Generators Examples

Figure 17. Others Examples

Figure 18. Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 19. Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 20. Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity (2021-2032) & (Units)

Figure 21. Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Price (2021-2032) & (US\$/Unit)

Figure 22. Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity Market Share by Manufacturer in 2025

Figure 23. Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Revenue Market Share by Manufacturer in 2025

Figure 24. Producer Shipments of Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 25. Top 3 Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Manufacturer (Revenue) Market Share in 2025

Figure 26. Top 6 Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Manufacturer (Revenue) Market Share in 2025

Figure 27. Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity Market Share by Region (2021-2032)

Figure 28. Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value Market Share by Region (2021-2032)

Figure 29. North America Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032) & (USD Million)

Figure 30. Europe Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032) & (USD Million)

Figure 31. Asia-Pacific Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032) & (USD Million)

Figure 32. South America Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032) & (USD Million)

Figure 33. Middle East & Africa Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032) & (USD Million)

Figure 34. Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity Market Share by Type (2021-2032)

Figure 35. Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value Market Share by Type (2021-2032)

Figure 36. Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Average Price by Type (2021-2032) & (US\$/Unit)

Figure 37. Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity Market Share by Application (2021-2032)

Figure 38. Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Revenue Market Share by Application (2021-2032)

Figure 39. Global Ultra-heavy Steam Turbine Rotor Forgings for Generators above

1000MW Average Price by Application (2021-2032) & (US\$/Unit)

Figure 40. North America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity Market Share by Type (2021-2032)

Figure 41. North America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity Market Share by Application (2021-2032)

Figure 42. North America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity Market Share by Country (2021-2032)

Figure 43. North America Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value Market Share by Country (2021-2032)

Figure 44. United States Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032) & (USD Million)

Figure 45. Canada Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032) & (USD Million)

Figure 46. Mexico Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032) & (USD Million)

Figure 47. Europe Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity Market Share by Type (2021-2032)

Figure 48. Europe Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity Market Share by Application (2021-2032)

Figure 49. Europe Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity Market Share by Country (2021-2032)

Figure 50. Europe Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value Market Share by Country (2021-2032)

Figure 51. Germany Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032) & (USD Million)

Figure 52. France Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032) & (USD Million)

Figure 53. United Kingdom Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032) & (USD Million)

Figure 54. Russia Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032) & (USD Million)

Figure 55. Italy Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032) & (USD Million)

Figure 56. Asia-Pacific Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity Market Share by Type (2021-2032)

Figure 57. Asia-Pacific Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity Market Share by Application (2021-2032)

Figure 58. Asia-Pacific Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity Market Share by Region (2021-2032)

Figure 59. Asia-Pacific Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value Market Share by Region (2021-2032)

Figure 60. China Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032) & (USD Million)

Figure 61. Japan Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032) & (USD Million)

Figure 62. South Korea Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032) & (USD Million)

Figure 63. India Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032) & (USD Million)

Figure 64. Southeast Asia Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032) & (USD Million)

Figure 65. Australia Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032) & (USD Million)

Figure 66. South America Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity Market Share by Type (2021-2032)

Figure 67. South America Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity Market Share by Application (2021-2032)

Figure 68. South America Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity Market Share by Country (2021-2032)

Figure 69. South America Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value Market Share by Country (2021-2032)

Figure 70. Brazil Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032) & (USD Million)

Figure 71. Argentina Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032) & (USD Million)

Figure 72. Middle East & Africa Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity Market Share by Type (2021-2032)

Figure 73. Middle East & Africa Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity Market Share by Application (2021-2032)

Figure 74. Middle East & Africa Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Sales Quantity Market Share by Country (2021-2032)

Figure 75. Middle East & Africa Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value Market Share by Country (2021-2032)

Figure 76. Turkey Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032) & (USD Million)

Figure 77. Egypt Ultra-heavy Steam Turbine Rotor Forgings for Generators above 1000MW Consumption Value (2021-2032) & (USD Million)

Figure 78. Saudi Arabia Ultra-heavy Steam Turbine Rotor Forgings for Generators

above 1000MW Consumption Value (2021-2032) & (USD Million)

Figure 79. South Africa Ultra?heavy Steam Turbine Rotor Forgings for Generators

above 1000MW Consumption Value (2021-2032) & (USD Million)

Figure 80. Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW

Market Drivers

Figure 81. Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW

Market Restraints

Figure 82. Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW

Market Trends

Figure 83. Porters Five Forces Analysis

Figure 84. Manufacturing Cost Structure Analysis of Ultra?heavy Steam Turbine Rotor

Forgings for Generators above 1000MW in 2025

Figure 85. Manufacturing Process Analysis of Ultra?heavy Steam Turbine Rotor

Forgings for Generators above 1000MW

Figure 86. Ultra?heavy Steam Turbine Rotor Forgings for Generators above 1000MW

Industrial Chain

Figure 87. Sales Channel: Direct to End-User vs Distributors

Figure 88. Direct Channel Pros & Cons

Figure 89. Indirect Channel Pros & Cons

Figure 90. Methodology

Figure 91. Research Process and Data Source

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