

Global TC17 Titanium Alloy 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 TC17 Titanium Alloy market size was valued at US\$ 391 million in 2025 and is forecast to a readjusted size of US\$ 720 million by 2032 with a CAGR of 9.1% during review period.

TC17 Titanium Alloy refers to an alpha-beta (beta-rich) two-phase titanium alloy with the nominal composition Ti-5Al-2Sn-2Zr-4Mo-4Cr, commercially supplied in semi-finished forms including bars, forgings and rings prior to machining into final components. Developed by General Electric of the United States in the 1970s, this grade delivers high tensile strength reaching 1100-1200 MPa, fracture toughness of 70 MPa·m^{1/2} or above, deep hardenability and a wide forging temperature window, enabling prolonged service below 400°C and establishing it as the premier material for fan disks and compressor disks in advanced aircraft engines globally. Core applications are almost exclusively concentrated in aero-engine rotating components ? fan disks, compressor integrally bladed disks and drums, with per-engine consumption reaching 0.8 to 1.2 tonnes ? along with select deployment in aircraft landing gear load-bearing forgings and spacecraft structural components. Global production of TC17 and equivalent grades is highly concentrated in the United States, China, Japan and Russia, with ATI of the United States dominating the global aero-engine forging supply chain under the Ti-17 designation (UNS R58650), Toho Titanium and Daido Steel of Japan holding significant shares in the Asia-Pacific market, and China's Jintian Titanium Industry, Baoji Titanium Industry and Western Superconducting Technologies forming a complete industrialized supply system spanning ingot to forging.

TC17 titanium alloy pricing is anchored solely by aero-engine rotating component certification, with disk forgings produced to AMS 4931/4995 specifications and meeting

OEM-specific requirements such as GE P29TF15 commanding the highest per-kilogram premiums, significantly exceeding structural forging-grade and industrial-grade products. Disk forgings account for approximately eighty percent of total grade output value, with pricing power concentrated among the limited number of enterprises certified by engine OEMs. Industrial-grade bar and forging supplied to ASTM B348 is priced based on sponge titanium cost and forging processing charges.

Margins are thin at the ingot stage, with substantial value addition in closed-die and isothermal forging, and the richest profits captured in finished disk machining. The vacuum arc remelting ingot stage generates limited margins, dependent on stringent chemical homogeneity control across triple-melt processing. Closed-die forging and isothermal forging constitute the critical value accretion node, with beta grain size uniformity and dwell fatigue performance control forming exceptionally high process barriers. Finished machined fan disks and compressor disks capture the richest margins, with engine OEM certification providing structural support for high gross margins.

Downstream consumption is almost entirely concentrated in aero-engine rotating components, with fan disks and compressor disks accounting for over eighty percent of total grade consumption. Per-engine TC17 consumption for large turbofan engines ranges from 0.8 to 1.2 tonnes, with commercial engine delivery rhythms determining base demand and military engine replacement plus aftermarket spares constituting a stable supplement. Compressor casing rings, turbine seal rings and other structural rings form the secondary pillar. Landing gear forgings and spacecraft structural components represent niche segments. Incremental demand originates from sustained capacity expansion of commercial engines including the Leap series, military engine domestic substitution, and aftermarket spares demand driven by engine overhaul and disk replacement cycles.

Upstream forging supply is highly concentrated among five to six core enterprises across the United States, China, Russia and Japan. ATI of the United States is the original Ti-17 grade holder, dominating the global aero-engine disk forging supply chain. VSMPO-AVISMA of Russia serves the global market with dual Airbus-Boeing certification. Kobe Steel represents the Japanese full-process titanium manufacturer, occupying a meaningful share in the Asia-Pacific market. China's Goldsky Titanium Industry, Baoji Titanium Industry and Western Superconducting Technologies form a complete industrialized supply system from ingot to disk forging, with Guizhou Anda and Xi'an Triangle Defense supplementing forging capacity. Fewer than six enterprises globally can reliably supply rotating-component-grade TC17 disk forgings, with OEM

certification barriers constituting exceptionally effective supply constraints.

Key uncertainties center on the cyclical nature of engine order rhythms and competitive pressure from forging capacity expansion. Commercial engine deliveries are affected by both global air passenger growth and airframe manufacturer capacity bottlenecks, resulting in uneven order patterns. Sustained domestic forging capacity expansion may create intensifying competition in the mid-to-lower tier structural components market. In summary, the TC17 titanium alloy market will sustain an aero-engine rotating-components-anchored trajectory. OEM certification barriers and disk forging process complexity constitute the deepest supply-side moat, with the growth pivot for the category depending on global commercial engine delivery rates and military engine deployment tempo.

This report is a detailed and comprehensive analysis for global TC17 Titanium Alloy 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 TC17 Titanium Alloy market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global TC17 Titanium Alloy market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global TC17 Titanium Alloy market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global TC17 Titanium Alloy market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 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 TC17 Titanium Alloy

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 TC17 Titanium Alloy 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 ATI, VSMPO-AVISMA, RTI International Metals, Kobe Steel, Baoji Titanium Industry, Hunan Xiangtou Goldsky Titanium Industry Technology, Western Superconducting Technologies, Baowu Special Metallurgy, AMG Titanium, KPCM, etc.

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

Market Segmentation

TC17 Titanium Alloy 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

Engine Rotating-Grade (AMS 4931/4995, OEM-Specific)

Structural Forging-Grade (AMS 4935/4955, Nadcap)

Commercial & Industrial Grade (ASTM B348 / UNS R58650)

Market segment by Form

Billet & Bar (Forged or Rolled, Diameter 100-400mm)

Disk Forging (Closed-Die, Near-Net Shape)

Ring Forging (Rolled, Diameter 500-2500mm)

Ingot (Vacuum Arc Remelted, Diameter 400-900mm)

Market segment by Application

Aero-Engine Rotating Components

Aero-Engine Structural Casings & Rings

Aircraft Landing Gear & Structural Forgings

Others

Major players covered

ATI

VSMPO-AVISMA

RTI International Metals

Kobe Steel

Baoji Titanium Industry

Hunan Xiangtou Goldsky Titanium Industry Technology

Western Superconducting Technologies

Baowu Special Metallurgy

AMG Titanium

KPCM

Mishra Dhatu Nigam (MIDHANI)

Guizhou Anda Aviation Forging

Xi'an Triangle Defense

Xi'an Chaojing Technology

Baoji Litai Nonferrous Metals

Shaanxi Hangyu Nonferrous Metal Processing

Shanghai Shiheng Alloy

Shaanxi Shuoxin Titanium & Nickel Metals

INNO Titanium

Baoji First Titanium Industry

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 TC17 Titanium Alloy product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of TC17 Titanium Alloy, with price, sales quantity, revenue, and global market share of TC17 Titanium Alloy from 2021 to 2026.

Chapter 3, the TC17 Titanium Alloy competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the TC17 Titanium Alloy 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 TC17 Titanium Alloy 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 TC17 Titanium Alloy.

Chapter 14 and 15, to describe TC17 Titanium Alloy 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 TC17 Titanium Alloy Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Engine Rotating-Grade (AMS 4931/4995, OEM-Specific)

1.3.3 Structural Forging-Grade (AMS 4935/4955, Nadcap)

1.3.4 Commercial & Industrial Grade (ASTM B348 / UNS R58650)

1.4 Market Analysis by Form

1.4.1 Overview: Global TC17 Titanium Alloy Consumption Value by Form: 2021 Versus 2025 Versus 2032

1.4.2 Billet & Bar (Forged or Rolled, Diameter 100-400mm)

1.4.3 Disk Forging (Closed-Die, Near-Net Shape)

1.4.4 Ring Forging (Rolled, Diameter 500-2500mm)

1.4.5 Ingot (Vacuum Arc Remelted, Diameter 400-900mm)

1.5 Market Analysis by Application

1.5.1 Overview: Global TC17 Titanium Alloy Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.5.2 Aero-Engine Rotating Components

1.5.3 Aero-Engine Structural Casings & Rings

1.5.4 Aircraft Landing Gear & Structural Forgings

1.5.5 Others

1.6 Global TC17 Titanium Alloy Market Size & Forecast

1.6.1 Global TC17 Titanium Alloy Consumption Value (2021 & 2025 & 2032)

1.6.2 Global TC17 Titanium Alloy Sales Quantity (2021-2032)

1.6.3 Global TC17 Titanium Alloy Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 ATI

2.1.1 ATI Details

2.1.2 ATI Major Business

2.1.3 ATI TC17 Titanium Alloy Product and Services

2.1.4 ATI TC17 Titanium Alloy Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.1.5 ATI Recent Developments/Updates
- 2.2 VSMPO-AVISMA
 - 2.2.1 VSMPO-AVISMA Details
 - 2.2.2 VSMPO-AVISMA Major Business
 - 2.2.3 VSMPO-AVISMA TC17 Titanium Alloy Product and Services
 - 2.2.4 VSMPO-AVISMA TC17 Titanium Alloy Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 VSMPO-AVISMA Recent Developments/Updates
- 2.3 RTI International Metals
 - 2.3.1 RTI International Metals Details
 - 2.3.2 RTI International Metals Major Business
 - 2.3.3 RTI International Metals TC17 Titanium Alloy Product and Services
 - 2.3.4 RTI International Metals TC17 Titanium Alloy Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 RTI International Metals Recent Developments/Updates
- 2.4 Kobe Steel
 - 2.4.1 Kobe Steel Details
 - 2.4.2 Kobe Steel Major Business
 - 2.4.3 Kobe Steel TC17 Titanium Alloy Product and Services
 - 2.4.4 Kobe Steel TC17 Titanium Alloy Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Kobe Steel Recent Developments/Updates
- 2.5 Baoji Titanium Industry
 - 2.5.1 Baoji Titanium Industry Details
 - 2.5.2 Baoji Titanium Industry Major Business
 - 2.5.3 Baoji Titanium Industry TC17 Titanium Alloy Product and Services
 - 2.5.4 Baoji Titanium Industry TC17 Titanium Alloy Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 Baoji Titanium Industry Recent Developments/Updates
- 2.6 Hunan Xiangtou Goldsky Titanium Industry Technology
 - 2.6.1 Hunan Xiangtou Goldsky Titanium Industry Technology Details
 - 2.6.2 Hunan Xiangtou Goldsky Titanium Industry Technology Major Business
 - 2.6.3 Hunan Xiangtou Goldsky Titanium Industry Technology TC17 Titanium Alloy Product and Services
 - 2.6.4 Hunan Xiangtou Goldsky Titanium Industry Technology TC17 Titanium Alloy Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 Hunan Xiangtou Goldsky Titanium Industry Technology Recent Developments/Updates
- 2.7 Western Superconducting Technologies

- 2.7.1 Western Superconducting Technologies Details
- 2.7.2 Western Superconducting Technologies Major Business
- 2.7.3 Western Superconducting Technologies TC17 Titanium Alloy Product and Services
- 2.7.4 Western Superconducting Technologies TC17 Titanium Alloy Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.7.5 Western Superconducting Technologies Recent Developments/Updates
- 2.8 Baowu Special Metallurgy
 - 2.8.1 Baowu Special Metallurgy Details
 - 2.8.2 Baowu Special Metallurgy Major Business
 - 2.8.3 Baowu Special Metallurgy TC17 Titanium Alloy Product and Services
 - 2.8.4 Baowu Special Metallurgy TC17 Titanium Alloy Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Baowu Special Metallurgy Recent Developments/Updates
- 2.9 AMG Titanium
 - 2.9.1 AMG Titanium Details
 - 2.9.2 AMG Titanium Major Business
 - 2.9.3 AMG Titanium TC17 Titanium Alloy Product and Services
 - 2.9.4 AMG Titanium TC17 Titanium Alloy Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 AMG Titanium Recent Developments/Updates
- 2.10 KPCM
 - 2.10.1 KPCM Details
 - 2.10.2 KPCM Major Business
 - 2.10.3 KPCM TC17 Titanium Alloy Product and Services
 - 2.10.4 KPCM TC17 Titanium Alloy Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 KPCM Recent Developments/Updates
- 2.11 Mishra Dhatu Nigam (MIDHANI)
 - 2.11.1 Mishra Dhatu Nigam (MIDHANI) Details
 - 2.11.2 Mishra Dhatu Nigam (MIDHANI) Major Business
 - 2.11.3 Mishra Dhatu Nigam (MIDHANI) TC17 Titanium Alloy Product and Services
 - 2.11.4 Mishra Dhatu Nigam (MIDHANI) TC17 Titanium Alloy Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.11.5 Mishra Dhatu Nigam (MIDHANI) Recent Developments/Updates
- 2.12 Guizhou Anda Aviation Forging
 - 2.12.1 Guizhou Anda Aviation Forging Details
 - 2.12.2 Guizhou Anda Aviation Forging Major Business
 - 2.12.3 Guizhou Anda Aviation Forging TC17 Titanium Alloy Product and Services

2.12.4 Guizhou Anda Aviation Forging TC17 Titanium Alloy Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Guizhou Anda Aviation Forging Recent Developments/Updates

2.13 Xi'an Triangle Defense

2.13.1 Xi'an Triangle Defense Details

2.13.2 Xi'an Triangle Defense Major Business

2.13.3 Xi'an Triangle Defense TC17 Titanium Alloy Product and Services

2.13.4 Xi'an Triangle Defense TC17 Titanium Alloy Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 Xi'an Triangle Defense Recent Developments/Updates

2.14 Xi'an Chaojing Technology

2.14.1 Xi'an Chaojing Technology Details

2.14.2 Xi'an Chaojing Technology Major Business

2.14.3 Xi'an Chaojing Technology TC17 Titanium Alloy Product and Services

2.14.4 Xi'an Chaojing Technology TC17 Titanium Alloy Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 Xi'an Chaojing Technology Recent Developments/Updates

2.15 Baoji Litai Nonferrous Metals

2.15.1 Baoji Litai Nonferrous Metals Details

2.15.2 Baoji Litai Nonferrous Metals Major Business

2.15.3 Baoji Litai Nonferrous Metals TC17 Titanium Alloy Product and Services

2.15.4 Baoji Litai Nonferrous Metals TC17 Titanium Alloy Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.15.5 Baoji Litai Nonferrous Metals Recent Developments/Updates

2.16 Shaanxi Hangyu Nonferrous Metal Processing

2.16.1 Shaanxi Hangyu Nonferrous Metal Processing Details

2.16.2 Shaanxi Hangyu Nonferrous Metal Processing Major Business

2.16.3 Shaanxi Hangyu Nonferrous Metal Processing TC17 Titanium Alloy Product and Services

2.16.4 Shaanxi Hangyu Nonferrous Metal Processing TC17 Titanium Alloy Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.16.5 Shaanxi Hangyu Nonferrous Metal Processing Recent Developments/Updates

2.17 Shanghai Shiheng Alloy

2.17.1 Shanghai Shiheng Alloy Details

2.17.2 Shanghai Shiheng Alloy Major Business

2.17.3 Shanghai Shiheng Alloy TC17 Titanium Alloy Product and Services

2.17.4 Shanghai Shiheng Alloy TC17 Titanium Alloy Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.17.5 Shanghai Shiheng Alloy Recent Developments/Updates

2.18 Shaanxi Shuoxin Titanium & Nickel Metals

2.18.1 Shaanxi Shuoxin Titanium & Nickel Metals Details

2.18.2 Shaanxi Shuoxin Titanium & Nickel Metals Major Business

2.18.3 Shaanxi Shuoxin Titanium & Nickel Metals TC17 Titanium Alloy Product and Services

2.18.4 Shaanxi Shuoxin Titanium & Nickel Metals TC17 Titanium Alloy Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.18.5 Shaanxi Shuoxin Titanium & Nickel Metals Recent Developments/Updates

2.19 INNO Titanium

2.19.1 INNO Titanium Details

2.19.2 INNO Titanium Major Business

2.19.3 INNO Titanium TC17 Titanium Alloy Product and Services

2.19.4 INNO Titanium TC17 Titanium Alloy Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.19.5 INNO Titanium Recent Developments/Updates

2.20 Baoji First Titanium Industry

2.20.1 Baoji First Titanium Industry Details

2.20.2 Baoji First Titanium Industry Major Business

2.20.3 Baoji First Titanium Industry TC17 Titanium Alloy Product and Services

2.20.4 Baoji First Titanium Industry TC17 Titanium Alloy Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.20.5 Baoji First Titanium Industry Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: TC17 TITANIUM ALLOY BY MANUFACTURER

3.1 Global TC17 Titanium Alloy Sales Quantity by Manufacturer (2021-2026)

3.2 Global TC17 Titanium Alloy Revenue by Manufacturer (2021-2026)

3.3 Global TC17 Titanium Alloy Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of TC17 Titanium Alloy by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 TC17 Titanium Alloy Manufacturer Market Share in 2025

3.4.3 Top 6 TC17 Titanium Alloy Manufacturer Market Share in 2025

3.5 TC17 Titanium Alloy Market: Overall Company Footprint Analysis

3.5.1 TC17 Titanium Alloy Market: Region Footprint

3.5.2 TC17 Titanium Alloy Market: Company Product Type Footprint

3.5.3 TC17 Titanium Alloy 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 TC17 Titanium Alloy Market Size by Region

- 4.1.1 Global TC17 Titanium Alloy Sales Quantity by Region (2021-2032)
- 4.1.2 Global TC17 Titanium Alloy Consumption Value by Region (2021-2032)
- 4.1.3 Global TC17 Titanium Alloy Average Price by Region (2021-2032)

4.2 North America TC17 Titanium Alloy Consumption Value (2021-2032)

4.3 Europe TC17 Titanium Alloy Consumption Value (2021-2032)

4.4 Asia-Pacific TC17 Titanium Alloy Consumption Value (2021-2032)

4.5 South America TC17 Titanium Alloy Consumption Value (2021-2032)

4.6 Middle East & Africa TC17 Titanium Alloy Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global TC17 Titanium Alloy Sales Quantity by Type (2021-2032)

5.2 Global TC17 Titanium Alloy Consumption Value by Type (2021-2032)

5.3 Global TC17 Titanium Alloy Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global TC17 Titanium Alloy Sales Quantity by Application (2021-2032)

6.2 Global TC17 Titanium Alloy Consumption Value by Application (2021-2032)

6.3 Global TC17 Titanium Alloy Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America TC17 Titanium Alloy Sales Quantity by Type (2021-2032)

7.2 North America TC17 Titanium Alloy Sales Quantity by Application (2021-2032)

7.3 North America TC17 Titanium Alloy Market Size by Country

7.3.1 North America TC17 Titanium Alloy Sales Quantity by Country (2021-2032)

7.3.2 North America TC17 Titanium Alloy 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 TC17 Titanium Alloy Sales Quantity by Type (2021-2032)

- 8.2 Europe TC17 Titanium Alloy Sales Quantity by Application (2021-2032)
- 8.3 Europe TC17 Titanium Alloy Market Size by Country
 - 8.3.1 Europe TC17 Titanium Alloy Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe TC17 Titanium Alloy 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 TC17 Titanium Alloy Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific TC17 Titanium Alloy Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific TC17 Titanium Alloy Market Size by Region
 - 9.3.1 Asia-Pacific TC17 Titanium Alloy Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific TC17 Titanium Alloy 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 TC17 Titanium Alloy Sales Quantity by Type (2021-2032)
- 10.2 South America TC17 Titanium Alloy Sales Quantity by Application (2021-2032)
- 10.3 South America TC17 Titanium Alloy Market Size by Country
 - 10.3.1 South America TC17 Titanium Alloy Sales Quantity by Country (2021-2032)
 - 10.3.2 South America TC17 Titanium Alloy 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 TC17 Titanium Alloy Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa TC17 Titanium Alloy Sales Quantity by Application

(2021-2032)

11.3 Middle East & Africa TC17 Titanium Alloy Market Size by Country

11.3.1 Middle East & Africa TC17 Titanium Alloy Sales Quantity by Country

(2021-2032)

11.3.2 Middle East & Africa TC17 Titanium Alloy 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 TC17 Titanium Alloy Market Drivers

12.2 TC17 Titanium Alloy Market Restraints

12.3 TC17 Titanium Alloy 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 TC17 Titanium Alloy and Key Manufacturers

13.2 Manufacturing Costs Percentage of TC17 Titanium Alloy

13.3 TC17 Titanium Alloy 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 TC17 Titanium Alloy Typical Distributors

14.3 TC17 Titanium Alloy 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 Smoke Spill Motor Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Smoke Spill Motor Consumption Value by Motor Type, (USD Million), 2021 & 2025 & 2032

Table 3. Global Smoke Spill Motor Consumption Value by System Integration, (USD Million), 2021 & 2025 & 2032

Table 4. Global Smoke Spill Motor Consumption Value by Power Range, (USD Million), 2021 & 2025 & 2032

Table 5. Global Smoke Spill Motor Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 6. WEG Motors Basic Information, Manufacturing Base and Competitors

Table 7. WEG Motors Major Business

Table 8. WEG Motors Smoke Spill Motor Product and Services

Table 9. WEG Motors Smoke Spill Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 10. WEG Motors Recent Developments/Updates

Table 11. TECO Basic Information, Manufacturing Base and Competitors

Table 12. TECO Major Business

Table 13. TECO Smoke Spill Motor Product and Services

Table 14. TECO Smoke Spill Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 15. TECO Recent Developments/Updates

Table 16. ABB Basic Information, Manufacturing Base and Competitors

Table 17. ABB Major Business

Table 18. ABB Smoke Spill Motor Product and Services

Table 19. ABB Smoke Spill Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 20. ABB Recent Developments/Updates

Table 21. Regal Rexnord Basic Information, Manufacturing Base and Competitors

Table 22. Regal Rexnord Major Business

Table 23. Regal Rexnord Smoke Spill Motor Product and Services

Table 24. Regal Rexnord Smoke Spill Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 25. Regal Rexnord Recent Developments/Updates

Table 26. Tatung Electric Basic Information, Manufacturing Base and Competitors

Table 27. Tatung Electric Major Business

Table 28. Tatung Electric Smoke Spill Motor Product and Services

Table 29. Tatung Electric Smoke Spill Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 30. Tatung Electric Recent Developments/Updates

Table 31. Wolong Electric Basic Information, Manufacturing Base and Competitors

Table 32. Wolong Electric Major Business

Table 33. Wolong Electric Smoke Spill Motor Product and Services

Table 34. Wolong Electric Smoke Spill Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 35. Wolong Electric Recent Developments/Updates

Table 36. Nidec Basic Information, Manufacturing Base and Competitors

Table 37. Nidec Major Business

Table 38. Nidec Smoke Spill Motor Product and Services

Table 39. Nidec Smoke Spill Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 40. Nidec Recent Developments/Updates

Table 41. VEM Basic Information, Manufacturing Base and Competitors

Table 42. VEM Major Business

Table 43. VEM Smoke Spill Motor Product and Services

Table 44. VEM Smoke Spill Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 45. VEM Recent Developments/Updates

Table 46. ATB Basic Information, Manufacturing Base and Competitors

Table 47. ATB Major Business

Table 48. ATB Smoke Spill Motor Product and Services

Table 49. ATB Smoke Spill Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 50. ATB Recent Developments/Updates

Table 51. GAMAK Basic Information, Manufacturing Base and Competitors

Table 52. GAMAK Major Business

Table 53. GAMAK Smoke Spill Motor Product and Services

Table 54. GAMAK Smoke Spill Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 55. GAMAK Recent Developments/Updates

Table 56. Cantoni Motor Basic Information, Manufacturing Base and Competitors

Table 57. Cantoni Motor Major Business

Table 58. Cantoni Motor Smoke Spill Motor Product and Services

Table 59. Cantoni Motor Smoke Spill Motor Sales Quantity (K Units), Average Price

(US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 60. Cantoni Motor Recent Developments/Updates

Table 61. Sisme Spa Basic Information, Manufacturing Base and Competitors

Table 62. Sisme Spa Major Business

Table 63. Sisme Spa Smoke Spill Motor Product and Services

Table 64. Sisme Spa Smoke Spill Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 65. Sisme Spa Recent Developments/Updates

Table 66. Techtop Motor Basic Information, Manufacturing Base and Competitors

Table 67. Techtop Motor Major Business

Table 68. Techtop Motor Smoke Spill Motor Product and Services

Table 69. Techtop Motor Smoke Spill Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 70. Techtop Motor Recent Developments/Updates

Table 71. Ningbo Shuozi Basic Information, Manufacturing Base and Competitors

Table 72. Ningbo Shuozi Major Business

Table 73. Ningbo Shuozi Smoke Spill Motor Product and Services

Table 74. Ningbo Shuozi Smoke Spill Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 75. Ningbo Shuozi Recent Developments/Updates

Table 76. Shandong Rongxin Electric Motor Basic Information, Manufacturing Base and Competitors

Table 77. Shandong Rongxin Electric Motor Major Business

Table 78. Shandong Rongxin Electric Motor Smoke Spill Motor Product and Services

Table 79. Shandong Rongxin Electric Motor Smoke Spill Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 80. Shandong Rongxin Electric Motor Recent Developments/Updates

Table 81. Suzhou Deneng Motor Basic Information, Manufacturing Base and Competitors

Table 82. Suzhou Deneng Motor Major Business

Table 83. Suzhou Deneng Motor Smoke Spill Motor Product and Services

Table 84. Suzhou Deneng Motor Smoke Spill Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Suzhou Deneng Motor Recent Developments/Updates

Table 86. Siemens Basic Information, Manufacturing Base and Competitors

Table 87. Siemens Major Business

Table 88. Siemens Smoke Spill Motor Product and Services

Table 89. Siemens Smoke Spill Motor Sales Quantity (K Units), Average Price

(US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Siemens Recent Developments/Updates

Table 91. Global Smoke Spill Motor Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 92. Global Smoke Spill Motor Revenue by Manufacturer (2021-2026) & (USD Million)

Table 93. Global Smoke Spill Motor Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 94. Market Position of Manufacturers in Smoke Spill Motor, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 95. Head Office and Smoke Spill Motor Production Site of Key Manufacturer

Table 96. Smoke Spill Motor Market: Company Product Type Footprint

Table 97. Smoke Spill Motor Market: Company Product Application Footprint

Table 98. Smoke Spill Motor New Market Entrants and Barriers to Market Entry

Table 99. Smoke Spill Motor Mergers, Acquisition, Agreements, and Collaborations

Table 100. Global Smoke Spill Motor Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 101. Global Smoke Spill Motor Sales Quantity by Region (2021-2026) & (K Units)

Table 102. Global Smoke Spill Motor Sales Quantity by Region (2027-2032) & (K Units)

Table 103. Global Smoke Spill Motor Consumption Value by Region (2021-2026) & (USD Million)

Table 104. Global Smoke Spill Motor Consumption Value by Region (2027-2032) & (USD Million)

Table 105. Global Smoke Spill Motor Average Price by Region (2021-2026) & (US\$/Unit)

Table 106. Global Smoke Spill Motor Average Price by Region (2027-2032) & (US\$/Unit)

Table 107. Global Smoke Spill Motor Sales Quantity by Type (2021-2026) & (K Units)

Table 108. Global Smoke Spill Motor Sales Quantity by Type (2027-2032) & (K Units)

Table 109. Global Smoke Spill Motor Consumption Value by Type (2021-2026) & (USD Million)

Table 110. Global Smoke Spill Motor Consumption Value by Type (2027-2032) & (USD Million)

Table 111. Global Smoke Spill Motor Average Price by Type (2021-2026) & (US\$/Unit)

Table 112. Global Smoke Spill Motor Average Price by Type (2027-2032) & (US\$/Unit)

Table 113. Global Smoke Spill Motor Sales Quantity by Application (2021-2026) & (K Units)

Table 114. Global Smoke Spill Motor Sales Quantity by Application (2027-2032) & (K Units)

Table 115. Global Smoke Spill Motor Consumption Value by Application (2021-2026) & (USD Million)

Table 116. Global Smoke Spill Motor Consumption Value by Application (2027-2032) & (USD Million)

Table 117. Global Smoke Spill Motor Average Price by Application (2021-2026) & (US\$/Unit)

Table 118. Global Smoke Spill Motor Average Price by Application (2027-2032) & (US\$/Unit)

Table 119. North America Smoke Spill Motor Sales Quantity by Type (2021-2026) & (K Units)

Table 120. North America Smoke Spill Motor Sales Quantity by Type (2027-2032) & (K Units)

Table 121. North America Smoke Spill Motor Sales Quantity by Application (2021-2026) & (K Units)

Table 122. North America Smoke Spill Motor Sales Quantity by Application (2027-2032) & (K Units)

Table 123. North America Smoke Spill Motor Sales Quantity by Country (2021-2026) & (K Units)

Table 124. North America Smoke Spill Motor Sales Quantity by Country (2027-2032) & (K Units)

Table 125. North America Smoke Spill Motor Consumption Value by Country (2021-2026) & (USD Million)

Table 126. North America Smoke Spill Motor Consumption Value by Country (2027-2032) & (USD Million)

Table 127. Europe Smoke Spill Motor Sales Quantity by Type (2021-2026) & (K Units)

Table 128. Europe Smoke Spill Motor Sales Quantity by Type (2027-2032) & (K Units)

Table 129. Europe Smoke Spill Motor Sales Quantity by Application (2021-2026) & (K Units)

Table 130. Europe Smoke Spill Motor Sales Quantity by Application (2027-2032) & (K Units)

Table 131. Europe Smoke Spill Motor Sales Quantity by Country (2021-2026) & (K Units)

Table 132. Europe Smoke Spill Motor Sales Quantity by Country (2027-2032) & (K Units)

Table 133. Europe Smoke Spill Motor Consumption Value by Country (2021-2026) & (USD Million)

Table 134. Europe Smoke Spill Motor Consumption Value by Country (2027-2032) & (USD Million)

Table 135. Asia-Pacific Smoke Spill Motor Sales Quantity by Type (2021-2026) & (K

Units)

Table 136. Asia-Pacific Smoke Spill Motor Sales Quantity by Type (2027-2032) & (K Units)

Table 137. Asia-Pacific Smoke Spill Motor Sales Quantity by Application (2021-2026) & (K Units)

Table 138. Asia-Pacific Smoke Spill Motor Sales Quantity by Application (2027-2032) & (K Units)

Table 139. Asia-Pacific Smoke Spill Motor Sales Quantity by Region (2021-2026) & (K Units)

Table 140. Asia-Pacific Smoke Spill Motor Sales Quantity by Region (2027-2032) & (K Units)

Table 141. Asia-Pacific Smoke Spill Motor Consumption Value by Region (2021-2026) & (USD Million)

Table 142. Asia-Pacific Smoke Spill Motor Consumption Value by Region (2027-2032) & (USD Million)

Table 143. South America Smoke Spill Motor Sales Quantity by Type (2021-2026) & (K Units)

Table 144. South America Smoke Spill Motor Sales Quantity by Type (2027-2032) & (K Units)

Table 145. South America Smoke Spill Motor Sales Quantity by Application (2021-2026) & (K Units)

Table 146. South America Smoke Spill Motor Sales Quantity by Application (2027-2032) & (K Units)

Table 147. South America Smoke Spill Motor Sales Quantity by Country (2021-2026) & (K Units)

Table 148. South America Smoke Spill Motor Sales Quantity by Country (2027-2032) & (K Units)

Table 149. South America Smoke Spill Motor Consumption Value by Country (2021-2026) & (USD Million)

Table 150. South America Smoke Spill Motor Consumption Value by Country (2027-2032) & (USD Million)

Table 151. Middle East & Africa Smoke Spill Motor Sales Quantity by Type (2021-2026) & (K Units)

Table 152. Middle East & Africa Smoke Spill Motor Sales Quantity by Type (2027-2032) & (K Units)

Table 153. Middle East & Africa Smoke Spill Motor Sales Quantity by Application (2021-2026) & (K Units)

Table 154. Middle East & Africa Smoke Spill Motor Sales Quantity by Application (2027-2032) & (K Units)

Table 155. Middle East & Africa Smoke Spill Motor Sales Quantity by Country
(2021-2026) & (K Units)

Table 156. Middle East & Africa Smoke Spill Motor Sales Quantity by Country
(2027-2032) & (K Units)

Table 157. Middle East & Africa Smoke Spill Motor Consumption Value by Country
(2021-2026) & (USD Million)

Table 158. Middle East & Africa Smoke Spill Motor Consumption Value by Country
(2027-2032) & (USD Million)

Table 159. Smoke Spill Motor Raw Material

Table 160. Key Manufacturers of Smoke Spill Motor Raw Materials

Table 161. Smoke Spill Motor Typical Distributors

Table 162. Smoke Spill Motor Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Smoke Spill Motor Picture

Figure 2. Global Smoke Spill Motor Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Smoke Spill Motor Revenue Market Share by Type in 2025

Figure 4. 200 °C Class Examples

Figure 5. 250 °C Class Examples

Figure 6. 300 °C Class Examples

Figure 7. 400 °C Class Examples

Figure 8. Global Smoke Spill Motor Revenue by Motor Type, (USD Million), 2021 & 2025 & 2032

Figure 9. Global Smoke Spill Motor Revenue Market Share by Motor Type in 2025

Figure 10. Standard Induction Motor Examples

Figure 11. High-temperature Resistant Motor Examples

Figure 12. Fire-rated Motors Examples

Figure 13. Others Examples

Figure 14. Global Smoke Spill Motor Revenue by System Integration, (USD Million), 2021 & 2025 & 2032

Figure 15. Global Smoke Spill Motor Revenue Market Share by System Integration in 2025

Figure 16. Smoke Exhaust Fan Motor Examples

Figure 17. Pressurization Fan Motor Examples

Figure 18. Dual-mode Systems Examples

Figure 19. Global Smoke Spill Motor Revenue by Power Range, (USD Million), 2021 & 2025 & 2032

Figure 20. Global Smoke Spill Motor Revenue Market Share by Power Range in 2025

Figure 21.

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