

Global Laser-Textured Metal Surfaces Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Laser-Textured Metal Surfaces market size is expected to reach \$ 416 million by 2032, rising at a market growth of 11.7% CAGR during the forecast period (2026-2032).

Laser textured metal surfaces refer to functional metal surfaces produced by nanosecond, picosecond, femtosecond or other ultrafast laser processes on stainless steel, aluminum alloys, titanium alloys, copper alloys, nickel based alloys and other metallic substrates. The research scope mainly covers laser surface texturing services, textured metal components, mold surface texturing, biomedical implant surface functionalization, adhesion pretreatment and coating pretreatment for metal parts. The core processes include laser ablation, selective remelting, controlled micro and nano structure formation, surface roughness control, ultrafast laser cold processing and digital texture path programming. Typical surface morphologies include dimples, grooves, grids, periodic textures, freeform patterns and hierarchical microstructures. Key technical parameters usually include texture depth, line width, pitch, surface roughness, heat affected zone, surface cleanliness, adhesion improvement, friction coefficient change, wettability performance and batch consistency. The main value of this product category lies in improving bonding strength, coating adhesion, wear resistance, liquid management, osseointegration, thermal contact, electrical contact and surface appearance without changing the bulk metal material. Major applications include electric vehicle battery bonding, lightweight automotive structures, medical implants, precision molds, aerospace components, mechanical seals, bearings, thermal spray pretreatment, electronics thermal management and high end industrial decorative parts. In 2025, the global laser textured metal surfaces industry is estimated to have an average gross margin of about 32% to 45%. Industrial scale processing is typically priced at about USD 20 to USD 200 per square meter.

Laser textured metal surfaces represent a specialized segment formed at the intersection of advanced laser processing and functional surface engineering. The value of the industry does not come from the base metal itself, but from the controlled micro and nano structures created on the surface, which can improve adhesion, friction behavior, wettability, biological response, coating bonding and thermal or electrical contact performance. The upstream supply chain mainly includes laser sources, scanning optics, motion control systems, vision positioning modules, fixtures and metal substrates. The midstream segment consists of laser texturing equipment, process development, surface engineering services and textured metal component production. Downstream demand is concentrated in electric vehicles, medical devices, molds and tools, aerospace parts, mechanical seals, bearings and electronics thermal management.

The competitive landscape is characterized by the coexistence of equipment manufacturers, precision processing service providers and functional surface technology companies. European and North American participants are relatively strong in ultrafast laser processing, complex freeform surface texturing, medical implant surface treatment and high end mold texturing. Japanese and Chinese companies are expanding their presence through precision manufacturing, laser equipment capabilities and fast growing electric vehicle and electronics supply chains. As customers increasingly require traceable processing, cleaner surface preparation, low contamination and consistent functional performance, simple low cost processing is becoming less important. Process databases, automation integration, application know how and validation capability are becoming the real sources of differentiation.

The policy and industrial environment is generally supportive, as advanced manufacturing, medical device localization, electric vehicle lightweighting, aerospace upgrading and cleaner surface treatment all create favorable conditions for broader adoption. Future growth will be driven by declining ultrafast laser equipment costs, higher batch processing efficiency, partial replacement of chemical etching and abrasive blasting, and continued capital spending by high end manufacturing customers on functional surfaces. The industry is still in a growth stage and may face short term fluctuations caused by equipment investment cycles and customer qualification periods. Over the longer term, the shift from bulk material performance competition to surface function competition should support steady expansion of this niche market.

This report studies the global Laser-Textured Metal Surfaces production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Laser-Textured Metal Surfaces 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 Laser-Textured Metal Surfaces that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Laser-Textured Metal Surfaces total production and demand, 2021-2032, (Sq m)

Global Laser-Textured Metal Surfaces total production value, 2021-2032, (USD Million)

Global Laser-Textured Metal Surfaces production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Sq m), (based on production site)

Global Laser-Textured Metal Surfaces consumption by region & country, CAGR, 2021-2032 & (Sq m)

U.S. VS China: Laser-Textured Metal Surfaces domestic production, consumption, key domestic manufacturers and share

Global Laser-Textured Metal Surfaces production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Sq m)

Global Laser-Textured Metal Surfaces production by Process, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)

Global Laser-Textured Metal Surfaces production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)

This report profiles key players in the global Laser-Textured Metal Surfaces 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 SurFunction GmbH, Pulse Technologies, voestalpine Eschmann Textures, St. Paul Engraving, Lightmotif B.V., Ming-Li Precision, Micron Laser Technology, Laserax, Optec, Mold-Tech Japan, 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 Laser-Textured Metal Surfaces market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (Sq m) and average price (US\$/Sq m) by manufacturer, by Process, 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 Laser-Textured Metal Surfaces Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Laser-Textured Metal Surfaces Market, Segmentation by Process:

Nanosecond Laser Texturing

Picosecond Laser Texturing

Femtosecond Laser Texturing

Ultrashort Pulse Laser Texturing

Others

Global Laser-Textured Metal Surfaces Market, Segmentation by Function:

Adhesion Enhancement

Tribology Improvement

Wettability Control

Coating Bonding Pretreatment

Decorative and Optical Texture

Others

Global Laser-Textured Metal Surfaces Market, Segmentation by Metal Substrate:

Stainless Steel

Aluminum Alloy

Titanium Alloy

Copper and Copper Alloy

Nickel-based Alloy

Others

Global Laser-Textured Metal Surfaces Market, Segmentation by Application:

Medical Device Industry

Automotive Industry

Aerospace and Defense Industry

Mold and Tooling Industry

Industrial Machinery Industry

Electronics Industry

Others

Companies Profiled:

SurFunction GmbH

Pulse Technologies

voestalpine Eschmann Textures

St. Paul Engraving

Lightmotif B.V.

Ming-Li Precision

Micron Laser Technology

Laserax

Optec

Mold-Tech Japan

Key Questions Answered:

1. How big is the global Laser-Textured Metal Surfaces market?
2. What is the demand of the global Laser-Textured Metal Surfaces market?
3. What is the year over year growth of the global Laser-Textured Metal Surfaces market?
4. What is the production and production value of the global Laser-Textured Metal Surfaces market?
5. Who are the key producers in the global Laser-Textured Metal Surfaces market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

4.4 United States Based Laser-Textured Metal Surfaces Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Laser-Textured Metal Surfaces Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Laser-Textured Metal Surfaces Production Value (2021-2026)

4.4.3 United States Based Manufacturers Laser-Textured Metal Surfaces Production (2021-2026)

4.5 China Based Laser-Textured Metal Surfaces Manufacturers and Market Share

4.5.1 China Based Laser-Textured Metal Surfaces Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Laser-Textured Metal Surfaces Production Value (2021-2026)

4.5.3 China Based Manufacturers Laser-Textured Metal Surfaces Production (2021-2026)

4.6 Rest of World Based Laser-Textured Metal Surfaces Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Laser-Textured Metal Surfaces Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Laser-Textured Metal Surfaces Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Laser-Textured Metal Surfaces Production (2021-2026)

5 MARKET ANALYSIS BY PROCESS

5.1 World Laser-Textured Metal Surfaces Market Size Overview by Process: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Process

5.2.1 Nanosecond Laser Texturing

5.2.2 Picosecond Laser Texturing

5.2.3 Femtosecond Laser Texturing

5.2.4 Ultrashort Pulse Laser Texturing

5.2.5 Others

5.3 Market Segment by Process

5.3.1 World Laser-Textured Metal Surfaces Production by Process (2021-2032)

5.3.2 World Laser-Textured Metal Surfaces Production Value by Process (2021-2032)

5.3.3 World Laser-Textured Metal Surfaces Average Price by Process (2021-2032)

6 MARKET ANALYSIS BY FUNCTION

6.1 World Laser-Textured Metal Surfaces Market Size Overview by Function: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Function

6.2.1 Adhesion Enhancement

6.2.2 Tribology Improvement

6.2.3 Wettability Control

6.2.4 Coating Bonding Pretreatment

6.2.5 Decorative and Optical Texture

6.2.6 Others

6.3 Market Segment by Function

6.3.1 World Laser-Textured Metal Surfaces Production by Function (2021-2032)

6.3.2 World Laser-Textured Metal Surfaces Production Value by Function (2021-2032)

6.3.3 World Laser-Textured Metal Surfaces Average Price by Function (2021-2032)

7 MARKET ANALYSIS BY METAL SUBSTRATE

7.1 World Laser-Textured Metal Surfaces Market Size Overview by Metal Substrate: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Metal Substrate

7.2.1 Stainless Steel

7.2.2 Aluminum Alloy

7.2.3 Titanium Alloy

7.2.4 Copper and Copper Alloy

7.2.5 Nickel-based Alloy

7.2.6 Others

7.3 Market Segment by Metal Substrate

7.3.1 World Laser-Textured Metal Surfaces Production by Metal Substrate (2021-2032)

7.3.2 World Laser-Textured Metal Surfaces Production Value by Metal Substrate (2021-2032)

7.3.3 World Laser-Textured Metal Surfaces Average Price by Metal Substrate (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Laser-Textured Metal Surfaces Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

- 8.2.1 Medical Device Industry
- 8.2.2 Automotive Industry
- 8.2.3 Aerospace and Defense Industry
- 8.2.4 Mold and Tooling Industry
- 8.2.5 Industrial Machinery Industry
- 8.2.6 Electronics Industry
- 8.2.7 Others
- 8.3 Market Segment by Application
 - 8.3.1 World Laser-Textured Metal Surfaces Production by Application (2021-2032)
 - 8.3.2 World Laser-Textured Metal Surfaces Production Value by Application (2021-2032)
 - 8.3.3 World Laser-Textured Metal Surfaces Average Price by Application (2021-2032)

9 COMPANY PROFILES

- 9.1 SurFunction GmbH
 - 9.1.1 SurFunction GmbH Details
 - 9.1.2 SurFunction GmbH Major Business
 - 9.1.3 SurFunction GmbH Laser-Textured Metal Surfaces Product and Services
 - 9.1.4 SurFunction GmbH Laser-Textured Metal Surfaces Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.1.5 SurFunction GmbH Recent Developments/Updates
 - 9.1.6 SurFunction GmbH Competitive Strengths & Weaknesses
- 9.2 Pulse Technologies
 - 9.2.1 Pulse Technologies Details
 - 9.2.2 Pulse Technologies Major Business
 - 9.2.3 Pulse Technologies Laser-Textured Metal Surfaces Product and Services
 - 9.2.4 Pulse Technologies Laser-Textured Metal Surfaces Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Pulse Technologies Recent Developments/Updates
 - 9.2.6 Pulse Technologies Competitive Strengths & Weaknesses
- 9.3 voestalpine Eschmann Textures
 - 9.3.1 voestalpine Eschmann Textures Details
 - 9.3.2 voestalpine Eschmann Textures Major Business
 - 9.3.3 voestalpine Eschmann Textures Laser-Textured Metal Surfaces Product and Services
 - 9.3.4 voestalpine Eschmann Textures Laser-Textured Metal Surfaces Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 voestalpine Eschmann Textures Recent Developments/Updates

9.3.6 voestalpine Eschmann Textures Competitive Strengths & Weaknesses

9.4 St. Paul Engraving

9.4.1 St. Paul Engraving Details

9.4.2 St. Paul Engraving Major Business

9.4.3 St. Paul Engraving Laser-Textured Metal Surfaces Product and Services

9.4.4 St. Paul Engraving Laser-Textured Metal Surfaces Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 St. Paul Engraving Recent Developments/Updates

9.4.6 St. Paul Engraving Competitive Strengths & Weaknesses

9.5 Lightmotif B.V.

9.5.1 Lightmotif B.V. Details

9.5.2 Lightmotif B.V. Major Business

9.5.3 Lightmotif B.V. Laser-Textured Metal Surfaces Product and Services

9.5.4 Lightmotif B.V. Laser-Textured Metal Surfaces Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Lightmotif B.V. Recent Developments/Updates

9.5.6 Lightmotif B.V. Competitive Strengths & Weaknesses

9.6 Ming-Li Precision

9.6.1 Ming-Li Precision Details

9.6.2 Ming-Li Precision Major Business

9.6.3 Ming-Li Precision Laser-Textured Metal Surfaces Product and Services

9.6.4 Ming-Li Precision Laser-Textured Metal Surfaces Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Ming-Li Precision Recent Developments/Updates

9.6.6 Ming-Li Precision Competitive Strengths & Weaknesses

9.7 Micron Laser Technology

9.7.1 Micron Laser Technology Details

9.7.2 Micron Laser Technology Major Business

9.7.3 Micron Laser Technology Laser-Textured Metal Surfaces Product and Services

9.7.4 Micron Laser Technology Laser-Textured Metal Surfaces Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Micron Laser Technology Recent Developments/Updates

9.7.6 Micron Laser Technology Competitive Strengths & Weaknesses

9.8 Laserax

9.8.1 Laserax Details

9.8.2 Laserax Major Business

9.8.3 Laserax Laser-Textured Metal Surfaces Product and Services

9.8.4 Laserax Laser-Textured Metal Surfaces Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Laserax Recent Developments/Updates

9.8.6 Laserax Competitive Strengths & Weaknesses

9.9 Optec

9.9.1 Optec Details

9.9.2 Optec Major Business

9.9.3 Optec Laser-Textured Metal Surfaces Product and Services

9.9.4 Optec Laser-Textured Metal Surfaces Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Optec Recent Developments/Updates

9.9.6 Optec Competitive Strengths & Weaknesses

9.10 Mold-Tech Japan

9.10.1 Mold-Tech Japan Details

9.10.2 Mold-Tech Japan Major Business

9.10.3 Mold-Tech Japan Laser-Textured Metal Surfaces Product and Services

9.10.4 Mold-Tech Japan Laser-Textured Metal Surfaces Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Mold-Tech Japan Recent Developments/Updates

9.10.6 Mold-Tech Japan Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Laser-Textured Metal Surfaces Industry Chain

10.2 Laser-Textured Metal Surfaces Upstream Analysis

10.2.1 Laser-Textured Metal Surfaces Core Raw Materials

10.2.2 Main Manufacturers of Laser-Textured Metal Surfaces Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Laser-Textured Metal Surfaces Production Mode

10.6 Laser-Textured Metal Surfaces Procurement Model

10.7 Laser-Textured Metal Surfaces Industry Sales Model and Sales Channels

10.7.1 Laser-Textured Metal Surfaces Sales Model

10.7.2 Laser-Textured Metal Surfaces 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 Laser-Textured Metal Surfaces Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Laser-Textured Metal Surfaces Production Value by Region (2021-2026) & (USD Million)

Table 3. World Laser-Textured Metal Surfaces Production Value by Region (2027-2032) & (USD Million)

Table 4. World Laser-Textured Metal Surfaces Production Value Market Share by Region (2021-2026)

Table 5. World Laser-Textured Metal Surfaces Production Value Market Share by Region (2027-2032)

Table 6. World Laser-Textured Metal Surfaces Production by Region (2021-2026) & (Sq m)

Table 7. World Laser-Textured Metal Surfaces Production by Region (2027-2032) & (Sq m)

Table 8. World Laser-Textured Metal Surfaces Production Market Share by Region (2021-2026)

Table 9. World Laser-Textured Metal Surfaces Production Market Share by Region (2027-2032)

Table 10. World Laser-Textured Metal Surfaces Average Price by Region (2021-2026) & (US\$/Sq m)

Table 11. World Laser-Textured Metal Surfaces Average Price by Region (2027-2032) & (US\$/Sq m)

Table 12. Laser-Textured Metal Surfaces Major Market Trends

Table 13. World Laser-Textured Metal Surfaces Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Sq m)

Table 14. World Laser-Textured Metal Surfaces Consumption by Region (2021-2026) & (Sq m)

Table 15. World Laser-Textured Metal Surfaces Consumption Forecast by Region (2027-2032) & (Sq m)

Table 16. World Laser-Textured Metal Surfaces Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Laser-Textured Metal Surfaces Producers in 2025

Table 18. World Laser-Textured Metal Surfaces Production by Manufacturer (2021-2026) & (Sq m)

Table 19. Production Market Share of Key Laser-Textured Metal Surfaces Producers in 2025

Table 20. World Laser-Textured Metal Surfaces Average Price by Manufacturer (2021-2026) & (US\$/Sq m)

Table 21. Global Laser-Textured Metal Surfaces Company Evaluation Quadrant

Table 22. World Laser-Textured Metal Surfaces Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Laser-Textured Metal Surfaces Production Site of Key Manufacturer

Table 24. Laser-Textured Metal Surfaces Market: Company Product Type Footprint

Table 25. Laser-Textured Metal Surfaces Market: Company Product Application Footprint

Table 26. Laser-Textured Metal Surfaces Competitive Factors

Table 27. Laser-Textured Metal Surfaces New Entrant and Capacity Expansion Plans

Table 28. Laser-Textured Metal Surfaces Mergers & Acquisitions Activity

Table 29. United States VS China Laser-Textured Metal Surfaces Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Laser-Textured Metal Surfaces Production Comparison, (2021 & 2025 & 2032) & (Sq m)

Table 31. United States VS China Laser-Textured Metal Surfaces Consumption Comparison, (2021 & 2025 & 2032) & (Sq m)

Table 32. United States Based Laser-Textured Metal Surfaces Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Laser-Textured Metal Surfaces Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Laser-Textured Metal Surfaces Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Laser-Textured Metal Surfaces Production (2021-2026) & (Sq m)

Table 36. United States Based Manufacturers Laser-Textured Metal Surfaces Production Market Share (2021-2026)

Table 37. China Based Laser-Textured Metal Surfaces Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Laser-Textured Metal Surfaces Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Laser-Textured Metal Surfaces Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Laser-Textured Metal Surfaces Production, (2021-2026) & (Sq m)

Table 41. China Based Manufacturers Laser-Textured Metal Surfaces Production Market Share (2021-2026)

Table 42. Rest of World Based Laser-Textured Metal Surfaces Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Laser-Textured Metal Surfaces Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Laser-Textured Metal Surfaces Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Laser-Textured Metal Surfaces Production, (2021-2026) & (Sq m)

Table 46. Rest of World Based Manufacturers Laser-Textured Metal Surfaces Production Market Share (2021-2026)

Table 47. World Laser-Textured Metal Surfaces Production Value by Process, (USD Million), 2021 & 2025 & 2032

Table 48. World Laser-Textured Metal Surfaces Production by Process (2021-2026) & (Sq m)

Table 49. World Laser-Textured Metal Surfaces Production by Process (2027-2032) & (Sq m)

Table 50. World Laser-Textured Metal Surfaces Production Value by Process (2021-2026) & (USD Million)

Table 51. World Laser-Textured Metal Surfaces Production Value by Process (2027-2032) & (USD Million)

Table 52. World Laser-Textured Metal Surfaces Average Price by Process (2021-2026) & (US\$/Sq m)

Table 53. World Laser-Textured Metal Surfaces Average Price by Process (2027-2032) & (US\$/Sq m)

Table 54. World Laser-Textured Metal Surfaces Production Value by Function, (USD Million), 2021 & 2025 & 2032

Table 55. World Laser-Textured Metal Surfaces Production by Function (2021-2026) & (Sq m)

Table 56. World Laser-Textured Metal Surfaces Production by Function (2027-2032) & (Sq m)

Table 57. World Laser-Textured Metal Surfaces Production Value by Function (2021-2026) & (USD Million)

Table 58. World Laser-Textured Metal Surfaces Production Value by Function (2027-2032) & (USD Million)

Table 59. World Laser-Textured Metal Surfaces Average Price by Function (2021-2026) & (US\$/Sq m)

Table 60. World Laser-Textured Metal Surfaces Average Price by Function (2027-2032)

& (US\$/Sq m)

Table 61. World Laser-Textured Metal Surfaces Production Value by Metal Substrate, (USD Million), 2021 & 2025 & 2032

Table 62. World Laser-Textured Metal Surfaces Production by Metal Substrate (2021-2026) & (Sq m)

Table 63. World Laser-Textured Metal Surfaces Production by Metal Substrate (2027-2032) & (Sq m)

Table 64. World Laser-Textured Metal Surfaces Production Value by Metal Substrate (2021-2026) & (USD Million)

Table 65. World Laser-Textured Metal Surfaces Production Value by Metal Substrate (2027-2032) & (USD Million)

Table 66. World Laser-Textured Metal Surfaces Average Price by Metal Substrate (2021-2026) & (US\$/Sq m)

Table 67. World Laser-Textured Metal Surfaces Average Price by Metal Substrate (2027-2032) & (US\$/Sq m)

Table 68. World Laser-Textured Metal Surfaces Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Laser-Textured Metal Surfaces Production by Application (2021-2026) & (Sq m)

Table 70. World Laser-Textured Metal Surfaces Production by Application (2027-2032) & (Sq m)

Table 71. World Laser-Textured Metal Surfaces Production Value by Application (2021-2026) & (USD Million)

Table 72. World Laser-Textured Metal Surfaces Production Value by Application (2027-2032) & (USD Million)

Table 73. World Laser-Textured Metal Surfaces Average Price by Application (2021-2026) & (US\$/Sq m)

Table 74. World Laser-Textured Metal Surfaces Average Price by Application (2027-2032) & (US\$/Sq m)

Table 75. SurFunction GmbH Basic Information, Manufacturing Base and Competitors

Table 76. SurFunction GmbH Major Business

Table 77. SurFunction GmbH Laser-Textured Metal Surfaces Product and Services

Table 78. SurFunction GmbH Laser-Textured Metal Surfaces Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. SurFunction GmbH Recent Developments/Updates

Table 80. SurFunction GmbH Competitive Strengths & Weaknesses

Table 81. Pulse Technologies Basic Information, Manufacturing Base and Competitors

Table 82. Pulse Technologies Major Business

Table 83. Pulse Technologies Laser-Textured Metal Surfaces Product and Services

Table 84. Pulse Technologies Laser-Textured Metal Surfaces Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Pulse Technologies Recent Developments/Updates

Table 86. Pulse Technologies Competitive Strengths & Weaknesses

Table 87. voestalpine Eschmann Textures Basic Information, Manufacturing Base and Competitors

Table 88. voestalpine Eschmann Textures Major Business

Table 89. voestalpine Eschmann Textures Laser-Textured Metal Surfaces Product and Services

Table 90. voestalpine Eschmann Textures Laser-Textured Metal Surfaces Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. voestalpine Eschmann Textures Recent Developments/Updates

Table 92. voestalpine Eschmann Textures Competitive Strengths & Weaknesses

Table 93. St. Paul Engraving Basic Information, Manufacturing Base and Competitors

Table 94. St. Paul Engraving Major Business

Table 95. St. Paul Engraving Laser-Textured Metal Surfaces Product and Services

Table 96. St. Paul Engraving Laser-Textured Metal Surfaces Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. St. Paul Engraving Recent Developments/Updates

Table 98. St. Paul Engraving Competitive Strengths & Weaknesses

Table 99. Lightmotif B.V. Basic Information, Manufacturing Base and Competitors

Table 100. Lightmotif B.V. Major Business

Table 101. Lightmotif B.V. Laser-Textured Metal Surfaces Product and Services

Table 102. Lightmotif B.V. Laser-Textured Metal Surfaces Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Lightmotif B.V. Recent Developments/Updates

Table 104. Lightmotif B.V. Competitive Strengths & Weaknesses

Table 105. Ming-Li Precision Basic Information, Manufacturing Base and Competitors

Table 106. Ming-Li Precision Major Business

Table 107. Ming-Li Precision Laser-Textured Metal Surfaces Product and Services

Table 108. Ming-Li Precision Laser-Textured Metal Surfaces Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Ming-Li Precision Recent Developments/Updates

Table 110. Ming-Li Precision Competitive Strengths & Weaknesses
Table 111. Micron Laser Technology Basic Information, Manufacturing Base and Competitors
Table 112. Micron Laser Technology Major Business
Table 113. Micron Laser Technology Laser-Textured Metal Surfaces Product and Services
Table 114. Micron Laser Technology Laser-Textured Metal Surfaces Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Micron Laser Technology Recent Developments/Updates
Table 116. Micron Laser Technology Competitive Strengths & Weaknesses
Table 117. Laserax Basic Information, Manufacturing Base and Competitors
Table 118. Laserax Major Business
Table 119. Laserax Laser-Textured Metal Surfaces Product and Services
Table 120. Laserax Laser-Textured Metal Surfaces Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Laserax Recent Developments/Updates
Table 122. Laserax Competitive Strengths & Weaknesses
Table 123. Optec Basic Information, Manufacturing Base and Competitors
Table 124. Optec Major Business
Table 125. Optec Laser-Textured Metal Surfaces Product and Services
Table 126. Optec Laser-Textured Metal Surfaces Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Optec Recent Developments/Updates
Table 128. Optec Competitive Strengths & Weaknesses
Table 129. Mold-Tech Japan Basic Information, Manufacturing Base and Competitors
Table 130. Mold-Tech Japan Major Business
Table 131. Mold-Tech Japan Laser-Textured Metal Surfaces Product and Services
Table 132. Mold-Tech Japan Laser-Textured Metal Surfaces Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Mold-Tech Japan Recent Developments/Updates
Table 134. Mold-Tech Japan Competitive Strengths & Weaknesses
Table 135. Global Key Players of Laser-Textured Metal Surfaces Upstream (Raw Materials)
Table 136. Global Laser-Textured Metal Surfaces Typical Customers
Table 137. Laser-Textured Metal Surfaces Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Laser-Textured Metal Surfaces Picture

Figure 2. World Laser-Textured Metal Surfaces Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Laser-Textured Metal Surfaces Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Laser-Textured Metal Surfaces Production (2021-2032) & (Sq m)

Figure 5. World Laser-Textured Metal Surfaces Average Price (2021-2032) & (US\$/Sq m)

Figure 6. World Laser-Textured Metal Surfaces Production Value Market Share by Region (2021-2032)

Figure 7. World Laser-Textured Metal Surfaces Production Market Share by Region (2021-2032)

Figure 8. North America Laser-Textured Metal Surfaces Production (2021-2032) & (Sq m)

Figure 9. Europe Laser-Textured Metal Surfaces Production (2021-2032) & (Sq m)

Figure 10. China Laser-Textured Metal Surfaces Production (2021-2032) & (Sq m)

Figure 11. Japan Laser-Textured Metal Surfaces Production (2021-2032) & (Sq m)

Figure 12. Laser-Textured Metal Surfaces Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Laser-Textured Metal Surfaces Consumption (2021-2032) & (Sq m)

Figure 15. World Laser-Textured Metal Surfaces Consumption Market Share by Region (2021-2032)

Figure 16. United States Laser-Textured Metal Surfaces Consumption (2021-2032) & (Sq m)

Figure 17. China Laser-Textured Metal Surfaces Consumption (2021-2032) & (Sq m)

Figure 18. Europe Laser-Textured Metal Surfaces Consumption (2021-2032) & (Sq m)

Figure 19. Japan Laser-Textured Metal Surfaces Consumption (2021-2032) & (Sq m)

Figure 20. South Korea Laser-Textured Metal Surfaces Consumption (2021-2032) & (Sq m)

Figure 21. ASEAN Laser-Textured Metal Surfaces Consumption (2021-2032) & (Sq m)

Figure 22. India Laser-Textured Metal Surfaces Consumption (2021-2032) & (Sq m)

Figure 23. Producer Shipments of Laser-Textured Metal Surfaces by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Laser-Textured Metal Surfaces Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Laser-Textured Metal Surfaces Markets in 2025

Figure 26. United States VS China: Laser-Textured Metal Surfaces Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Laser-Textured Metal Surfaces Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Laser-Textured Metal Surfaces Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Laser-Textured Metal Surfaces Production Market Share 2025

Figure 30. China Based Manufacturers Laser-Textured Metal Surfaces Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Laser-Textured Metal Surfaces Production Market Share 2025

Figure 32. World Laser-Textured Metal Surfaces Production Value by Process, (USD Million), 2021 & 2025 & 2032

Figure 33. World Laser-Textured Metal Surfaces Production Value Market Share by Process in 2025

Figure 34. Nanosecond Laser Texturing

Figure 35. Picosecond Laser Texturing

Figure 36. Femtosecond Laser Texturing

Figure 37. Ultrashort Pulse Laser Texturing

Figure 38. Others

Figure 39. World Laser-Textured Metal Surfaces Production Market Share by Process (2021-2032)

Figure 40. World Laser-Textured Metal Surfaces Production Value Market Share by Process (2021-2032)

Figure 41. World Laser-Textured Metal Surfaces Average Price by Process (2021-2032) & (US\$/Sq m)

Figure 42. World Laser-Textured Metal Surfaces Production Value by Function, (USD Million), 2021 & 2025 & 2032

Figure 43. World Laser-Textured Metal Surfaces Production Value Market Share by Function in 2025

Figure 44. Adhesion Enhancement

Figure 45. Tribology Improvement

Figure 46. Wettability Control

Figure 47. Coating Bonding Pretreatment

Figure 48. Decorative and Optical Texture

Figure 49. Others

Figure 50. World Laser-Textured Metal Surfaces Production Market Share by Function (2021-2032)

Figure 51. World Laser-Textured Metal Surfaces Production Value Market Share by Function (2021-2032)

Figure 52. World Laser-Textured Metal Surfaces Average Price by Function (2021-2032) & (US\$/Sq m)

Figure 53. World Laser-Textured Metal Surfaces Production Value by Metal Substrate, (USD Million), 2021 & 2025 & 2032

Figure 54. World Laser-Textured Metal Surfaces Production Value Market Share by Metal Substrate in 2025

Figure 55. Stainless Steel

Figure 56. Aluminum Alloy

Figure 57. Titanium Alloy

Figure 58. Copper and Copper Alloy

Figure 59. Nickel-based Alloy

Figure 60. Others

Figure 61. World Laser-Textured Metal Surfaces Production Market Share by Metal Substrate (2021-2032)

Figure 62. World Laser-Textured Metal Surfaces Production Value Market Share by Metal Substrate (2021-2032)

Figure 63. World Laser-Textured Metal Surfaces Average Price by Metal Substrate (2021-2032) & (US\$/Sq m)

Figure 64. World Laser-Textured Metal Surfaces Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 65. World Laser-Textured Metal Surfaces Production Value Market Share by Application in 2025

Figure 66. Medical Device Industry

Figure 67. Automotive Industry

Figure 68. Aerospace and Defense Industry

Figure 69. Mold and Tooling Industry

Figure 70. Industrial Machinery Industry

Figure 71. Electronics Industry

Figure 72. Others

Figure 73. World Laser-Textured Metal Surfaces Production Market Share by Application (2021-2032)

Figure 74. World Laser-Textured Metal Surfaces Production Value Market Share by Application (2021-2032)

Figure 75. World Laser-Textured Metal Surfaces Average Price by Application (2021-2032) & (US\$/Sq m)

Figure 76. Laser-Textured Metal Surfaces Industry Chain

Figure 77. Laser-Textured Metal Surfaces Procurement Model

Figure 78. Laser-Textured Metal Surfaces Sales Model

Figure 79. Laser-Textured Metal Surfaces Sales Channels, Direct Sales, and Distribution

Figure 80. Methodology

Figure 81. Research Process and Data Source

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