

Global Enclosed Laser Marking Machine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Enclosed Laser Marking Machine market size is expected to reach \$ 1268 million by 2032, rising at a market growth of 6.9% CAGR during the forecast period (2026-2032).

Enclosed Laser Marking Machine is a safety-oriented laser marking system that integrates a laser source, galvo scanner, F-theta lens, control system, motion platform, enclosed protective housing, door interlock, fume extraction interface, and marking software into one machine. It typically uses fiber, UV, green, CO₂, or MOPA laser sources to create text, serial numbers, QR codes, barcodes, logos, and anti-counterfeiting marks on metals, plastics, ceramics, glass, electronic components, medical devices, automotive parts, tools, jewelry, and laboratory samples. Its upstream inputs mainly include laser sources, galvo scanners, F-theta lenses, beam expanders, control cards, industrial PCs, Z-axis stages, rotary axes, vision positioning modules, sheet metal cabinets, safety glass, interlock switches, fume filtration systems, power supplies, cooling systems, and industrial software. Major downstream customers include automotive component manufacturers, medical device companies, electronics manufacturers, tool and hardware producers, jewelry processors, packaging manufacturers, laboratories and R&D institutions, aerospace component suppliers, and small-batch precision manufacturing users. Under a narrow finished-machine scope and on an ex-factory basis, global nominal capacity in 2025 is estimated at about 89,000 units per year, actual sales volume at about 64,783 units, average ex-factory price at about USD 11,850 per unit, and industry gross margin at roughly 25%-43%.

The enclosed laser marking machine market is currently in a stable growth stage based on mature applications. Demand has expanded from traditional marking of metal nameplates, tools, and electronic components to medical devices, automotive parts,

consumer electronics, precision plastic parts, jewelry, laboratory samples, and small batch flexible manufacturing. Compared with open marking equipment, enclosed systems are better aligned with factory safety and quality management requirements because they provide stronger laser safety, fume control, misoperation prevention, workstation standardization, and cleaner operation. The market is clearly segmented, with European, American, and Japanese brands showing stronger advantages in high end safety workstations, vision positioning, and precision applications, while Chinese suppliers are more competitive in standardized machines, cost control, and delivery speed.

Future development will continue to move toward safety compliance, vision positioning, multi axis motion, automated loading and unloading, and data connectivity. As requirements increase for medical device unique identification, automotive part traceability, electronics QR codes, anti counterfeiting marks, and industrial product serialization, customers are placing higher demands on mark permanence, readability, repeatable positioning accuracy, and closed loop data management. Enclosed laser marking machines will no longer function only as standalone marking devices. They will increasingly integrate autofocus, coaxial vision, barcode verification, rotary axes, XY stages, automatic doors, fume filtration, and production management system interfaces, gradually evolving into compact traceable manufacturing cells.

Market growth is mainly driven by upgrades in manufacturing quality traceability systems, higher enterprise safety requirements, stricter medical and automotive regulations, refined management in electronics manufacturing, and rising demand for brand anti counterfeiting and personalization. Laser marking offers no consumables, durable marks, fine graphics, broad material compatibility, and strong support for QR code recognition, making it suitable for metals, plastics, ceramics, glass, and coated materials. For downstream users, equipment selection depends not only on laser power and marking speed, but also on safety level, fixture compatibility, software interfaces, vision recognition, maintenance convenience, and process validation capability. Suppliers with application testing experience and industry delivery references are more likely to enter medium and high end customer systems.

Key constraints include strong product homogeneity in low end equipment, intense price competition, customer sensitivity to footprint and procurement budget, and wide differences in laser parameter windows across materials and surface treatments. In the low to mid end market, some suppliers assemble machines quickly using standard laser sources, common galvo scanners, and sheet metal enclosures, resulting in limited differentiation. High end applications require process validation around QR code grade,

corrosion resistance, wear resistance, readability after sterilization, and vision verification, which makes the sales cycle relatively longer. Overall, enclosed laser marking machines are unlikely to fall completely into low price competition. Future growth will be supported more by safety compliance upgrades, precision manufacturing traceability, medical device and electronics automation, and customers' continued focus on stability and data connectivity.

This report studies the global Enclosed Laser Marking Machine production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Enclosed Laser Marking Machine 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 Enclosed Laser Marking Machine that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Enclosed Laser Marking Machine total production and demand, 2021-2032, (K Units)

Global Enclosed Laser Marking Machine total production value, 2021-2032, (USD Million)

Global Enclosed Laser Marking Machine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Enclosed Laser Marking Machine consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Enclosed Laser Marking Machine domestic production, consumption, key domestic manufacturers and share

Global Enclosed Laser Marking Machine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Enclosed Laser Marking Machine production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Enclosed Laser Marking Machine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Enclosed Laser Marking Machine 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 TRUMPF, FOBA Laser Marking +

Engraving, Coherent, Telesis Technologies, Gravotech, TYKMA ElectroX, AMADA WELD TECH, MECCO, Trotec Laser, SISMA, 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 Enclosed Laser Marking Machine market

Detailed Segmentation:

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

Global Enclosed Laser Marking Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Enclosed Laser Marking Machine Market, Segmentation by Type:

UV Laser

Fiber Laser

CO2 Laser

Other

Global Enclosed Laser Marking Machine Market, Segmentation by Power Range:

Low Power (Below 20 W)

Standard Power (20?50 W)

High Power (Above 50 W)

Global Enclosed Laser Marking Machine Market, Segmentation by Equipment Form:

Benchtop Enclosed System

Floor-Standing Workstation

Other

Global Enclosed Laser Marking Machine Market, Segmentation by Application:

Automotive and Transportation

Electronics and Semiconductors

Medical Devices

Other

Companies Profiled:

TRUMPF

FOBA Laser Marking + Engraving

Coherent

Telesis Technologies

Gravotech

TYKMA Electrox

AMADA WELD TECH

MECCO

Trotec Laser

SISMA

Epilog Laser

RMI Laser

Laserax

Han's Laser Technology Industry Group

HGTECH

Key Questions Answered:

1. How big is the global Enclosed Laser Marking Machine market?
2. What is the demand of the global Enclosed Laser Marking Machine market?
3. What is the year over year growth of the global Enclosed Laser Marking Machine market?
4. What is the production and production value of the global Enclosed Laser Marking Machine market?
5. Who are the key producers in the global Enclosed Laser Marking Machine market?

6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Enclosed Laser Marking Machine Production Value by Manufacturer (2021-2026)

3.2 World Enclosed Laser Marking Machine Production by Manufacturer (2021-2026)

3.3 World Enclosed Laser Marking Machine Average Price by Manufacturer (2021-2026)

3.4 Enclosed Laser Marking Machine Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Enclosed Laser Marking Machine Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Enclosed Laser Marking Machine in 2025

3.5.3 Global Concentration Ratios (CR8) for Enclosed Laser Marking Machine in 2025

3.6 Enclosed Laser Marking Machine Market: Overall Company Footprint Analysis

3.6.1 Enclosed Laser Marking Machine Market: Region Footprint

3.6.2 Enclosed Laser Marking Machine Market: Company Product Type Footprint

3.6.3 Enclosed Laser Marking Machine 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: Enclosed Laser Marking Machine Production Value Comparison

4.1.1 United States VS China: Enclosed Laser Marking Machine Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Enclosed Laser Marking Machine Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Enclosed Laser Marking Machine Production Comparison

4.2.1 United States VS China: Enclosed Laser Marking Machine Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Enclosed Laser Marking Machine Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Enclosed Laser Marking Machine Consumption Comparison

4.3.1 United States VS China: Enclosed Laser Marking Machine Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Enclosed Laser Marking Machine Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Enclosed Laser Marking Machine Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Enclosed Laser Marking Machine Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Enclosed Laser Marking Machine Production Value (2021-2026)

4.4.3 United States Based Manufacturers Enclosed Laser Marking Machine Production (2021-2026)

4.5 China Based Enclosed Laser Marking Machine Manufacturers and Market Share

4.5.1 China Based Enclosed Laser Marking Machine Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Enclosed Laser Marking Machine Production Value (2021-2026)

4.5.3 China Based Manufacturers Enclosed Laser Marking Machine Production (2021-2026)

4.6 Rest of World Based Enclosed Laser Marking Machine Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Enclosed Laser Marking Machine Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Enclosed Laser Marking Machine Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Enclosed Laser Marking Machine Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Enclosed Laser Marking Machine Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 UV Laser

5.2.2 Fiber Laser

5.2.3 CO2 Laser

5.2.4 Other

5.3 Market Segment by Type

5.3.1 World Enclosed Laser Marking Machine Production by Type (2021-2032)

5.3.2 World Enclosed Laser Marking Machine Production Value by Type (2021-2032)

5.3.3 World Enclosed Laser Marking Machine Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY POWER RANGE

6.1 World Enclosed Laser Marking Machine Market Size Overview by Power Range:
2021 VS 2025 VS 2032

6.2 Segment Introduction by Power Range

6.2.1 Low Power (Below 20 W)

6.2.2 Standard Power (20?50 W)

6.2.3 High Power (Above 50 W)

6.3 Market Segment by Power Range

6.3.1 World Enclosed Laser Marking Machine Production by Power Range
(2021-2032)

6.3.2 World Enclosed Laser Marking Machine Production Value by Power Range
(2021-2032)

6.3.3 World Enclosed Laser Marking Machine Average Price by Power Range
(2021-2032)

7 MARKET ANALYSIS BY EQUIPMENT FORM

7.1 World Enclosed Laser Marking Machine Market Size Overview by Equipment Form:
2021 VS 2025 VS 2032

7.2 Segment Introduction by Equipment Form

7.2.1 Benchtop Enclosed System

7.2.2 Floor-Standing Workstation

7.2.3 Other

7.3 Market Segment by Equipment Form

7.3.1 World Enclosed Laser Marking Machine Production by Equipment Form
(2021-2032)

7.3.2 World Enclosed Laser Marking Machine Production Value by Equipment Form
(2021-2032)

7.3.3 World Enclosed Laser Marking Machine Average Price by Equipment Form
(2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Enclosed Laser Marking Machine Market Size Overview by Application: 2021
VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Automotive and Transportation

8.2.2 Electronics and Semiconductors

8.2.3 Medical Devices

8.2.4 Other

8.3 Market Segment by Application

8.3.1 World Enclosed Laser Marking Machine Production by Application (2021-2032)

8.3.2 World Enclosed Laser Marking Machine Production Value by Application (2021-2032)

8.3.3 World Enclosed Laser Marking Machine Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 TRUMPF

9.1.1 TRUMPF Details

9.1.2 TRUMPF Major Business

9.1.3 TRUMPF Enclosed Laser Marking Machine Product and Services

9.1.4 TRUMPF Enclosed Laser Marking Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 TRUMPF Recent Developments/Updates

9.1.6 TRUMPF Competitive Strengths & Weaknesses

9.2 FOBA Laser Marking + Engraving

9.2.1 FOBA Laser Marking + Engraving Details

9.2.2 FOBA Laser Marking + Engraving Major Business

9.2.3 FOBA Laser Marking + Engraving Enclosed Laser Marking Machine Product and Services

9.2.4 FOBA Laser Marking + Engraving Enclosed Laser Marking Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 FOBA Laser Marking + Engraving Recent Developments/Updates

9.2.6 FOBA Laser Marking + Engraving Competitive Strengths & Weaknesses

9.3 Coherent

9.3.1 Coherent Details

9.3.2 Coherent Major Business

9.3.3 Coherent Enclosed Laser Marking Machine Product and Services

9.3.4 Coherent Enclosed Laser Marking Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Coherent Recent Developments/Updates

9.3.6 Coherent Competitive Strengths & Weaknesses

9.4 Telesis Technologies

9.4.1 Telesis Technologies Details

9.4.2 Telesis Technologies Major Business

9.4.3 Telesis Technologies Enclosed Laser Marking Machine Product and Services

9.4.4 Telesis Technologies Enclosed Laser Marking Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Telesis Technologies Recent Developments/Updates

9.4.6 Telesis Technologies Competitive Strengths & Weaknesses

9.5 Gravotech

9.5.1 Gravotech Details

9.5.2 Gravotech Major Business

9.5.3 Gravotech Enclosed Laser Marking Machine Product and Services

9.5.4 Gravotech Enclosed Laser Marking Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Gravotech Recent Developments/Updates

9.5.6 Gravotech Competitive Strengths & Weaknesses

9.6 TYKMA Electrox

9.6.1 TYKMA Electrox Details

9.6.2 TYKMA Electrox Major Business

9.6.3 TYKMA Electrox Enclosed Laser Marking Machine Product and Services

9.6.4 TYKMA Electrox Enclosed Laser Marking Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 TYKMA Electrox Recent Developments/Updates

9.6.6 TYKMA Electrox Competitive Strengths & Weaknesses

9.7 AMADA WELD TECH

9.7.1 AMADA WELD TECH Details

9.7.2 AMADA WELD TECH Major Business

9.7.3 AMADA WELD TECH Enclosed Laser Marking Machine Product and Services

9.7.4 AMADA WELD TECH Enclosed Laser Marking Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 AMADA WELD TECH Recent Developments/Updates

9.7.6 AMADA WELD TECH Competitive Strengths & Weaknesses

9.8 MECCO

9.8.1 MECCO Details

9.8.2 MECCO Major Business

9.8.3 MECCO Enclosed Laser Marking Machine Product and Services

9.8.4 MECCO Enclosed Laser Marking Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 MECCO Recent Developments/Updates

9.8.6 MECCO Competitive Strengths & Weaknesses

9.9 Trotec Laser

9.9.1 Trotec Laser Details

9.9.2 Trotec Laser Major Business

9.9.3 Trotec Laser Enclosed Laser Marking Machine Product and Services

9.9.4 Trotec Laser Enclosed Laser Marking Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Trotec Laser Recent Developments/Updates

9.9.6 Trotec Laser Competitive Strengths & Weaknesses

9.10 SISMA

9.10.1 SISMA Details

9.10.2 SISMA Major Business

9.10.3 SISMA Enclosed Laser Marking Machine Product and Services

9.10.4 SISMA Enclosed Laser Marking Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 SISMA Recent Developments/Updates

9.10.6 SISMA Competitive Strengths & Weaknesses

9.11 Epilog Laser

9.11.1 Epilog Laser Details

9.11.2 Epilog Laser Major Business

9.11.3 Epilog Laser Enclosed Laser Marking Machine Product and Services

9.11.4 Epilog Laser Enclosed Laser Marking Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Epilog Laser Recent Developments/Updates

9.11.6 Epilog Laser Competitive Strengths & Weaknesses

9.12 RMI Laser

9.12.1 RMI Laser Details

9.12.2 RMI Laser Major Business

9.12.3 RMI Laser Enclosed Laser Marking Machine Product and Services

9.12.4 RMI Laser Enclosed Laser Marking Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 RMI Laser Recent Developments/Updates

9.12.6 RMI Laser Competitive Strengths & Weaknesses

9.13 Laserax

9.13.1 Laserax Details

9.13.2 Laserax Major Business

9.13.3 Laserax Enclosed Laser Marking Machine Product and Services

9.13.4 Laserax Enclosed Laser Marking Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.13.5 Laserax Recent Developments/Updates
- 9.13.6 Laserax Competitive Strengths & Weaknesses
- 9.14 Han's Laser Technology Industry Group
 - 9.14.1 Han's Laser Technology Industry Group Details
 - 9.14.2 Han's Laser Technology Industry Group Major Business
 - 9.14.3 Han's Laser Technology Industry Group Enclosed Laser Marking Machine Product and Services
 - 9.14.4 Han's Laser Technology Industry Group Enclosed Laser Marking Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Han's Laser Technology Industry Group Recent Developments/Updates
 - 9.14.6 Han's Laser Technology Industry Group Competitive Strengths & Weaknesses
- 9.15 HGTECH
 - 9.15.1 HGTECH Details
 - 9.15.2 HGTECH Major Business
 - 9.15.3 HGTECH Enclosed Laser Marking Machine Product and Services
 - 9.15.4 HGTECH Enclosed Laser Marking Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 HGTECH Recent Developments/Updates
 - 9.15.6 HGTECH Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

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

Table 2. World Enclosed Laser Marking Machine Production Value by Region (2021-2026) & (USD Million)

Table 3. World Enclosed Laser Marking Machine Production Value by Region (2027-2032) & (USD Million)

Table 4. World Enclosed Laser Marking Machine Production Value Market Share by Region (2021-2026)

Table 5. World Enclosed Laser Marking Machine Production Value Market Share by Region (2027-2032)

Table 6. World Enclosed Laser Marking Machine Production by Region (2021-2026) & (K Units)

Table 7. World Enclosed Laser Marking Machine Production by Region (2027-2032) & (K Units)

Table 8. World Enclosed Laser Marking Machine Production Market Share by Region (2021-2026)

Table 9. World Enclosed Laser Marking Machine Production Market Share by Region (2027-2032)

Table 10. World Enclosed Laser Marking Machine Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Enclosed Laser Marking Machine Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Enclosed Laser Marking Machine Major Market Trends

Table 13. World Enclosed Laser Marking Machine Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Enclosed Laser Marking Machine Consumption by Region (2021-2026) & (K Units)

Table 15. World Enclosed Laser Marking Machine Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Enclosed Laser Marking Machine Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Enclosed Laser Marking Machine Producers in 2025

Table 18. World Enclosed Laser Marking Machine Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Enclosed Laser Marking Machine Producers in 2025

Table 20. World Enclosed Laser Marking Machine Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Enclosed Laser Marking Machine Company Evaluation Quadrant

Table 22. World Enclosed Laser Marking Machine Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Enclosed Laser Marking Machine Production Site of Key Manufacturer

Table 24. Enclosed Laser Marking Machine Market: Company Product Type Footprint

Table 25. Enclosed Laser Marking Machine Market: Company Product Application Footprint

Table 26. Enclosed Laser Marking Machine Competitive Factors

Table 27. Enclosed Laser Marking Machine New Entrant and Capacity Expansion Plans

Table 28. Enclosed Laser Marking Machine Mergers & Acquisitions Activity

Table 29. United States VS China Enclosed Laser Marking Machine Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Enclosed Laser Marking Machine Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Enclosed Laser Marking Machine Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Enclosed Laser Marking Machine Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Enclosed Laser Marking Machine Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Enclosed Laser Marking Machine Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Enclosed Laser Marking Machine Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Enclosed Laser Marking Machine Production Market Share (2021-2026)

Table 37. China Based Enclosed Laser Marking Machine Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Enclosed Laser Marking Machine Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Enclosed Laser Marking Machine Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Enclosed Laser Marking Machine Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Enclosed Laser Marking Machine Production Market Share (2021-2026)

Table 42. Rest of World Based Enclosed Laser Marking Machine Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Enclosed Laser Marking Machine Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Enclosed Laser Marking Machine Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Enclosed Laser Marking Machine Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Enclosed Laser Marking Machine Production Market Share (2021-2026)

Table 47. World Enclosed Laser Marking Machine Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Enclosed Laser Marking Machine Production by Type (2021-2026) & (K Units)

Table 49. World Enclosed Laser Marking Machine Production by Type (2027-2032) & (K Units)

Table 50. World Enclosed Laser Marking Machine Production Value by Type (2021-2026) & (USD Million)

Table 51. World Enclosed Laser Marking Machine Production Value by Type (2027-2032) & (USD Million)

Table 52. World Enclosed Laser Marking Machine Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Enclosed Laser Marking Machine Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Enclosed Laser Marking Machine Production Value by Power Range, (USD Million), 2021 & 2025 & 2032

Table 55. World Enclosed Laser Marking Machine Production by Power Range (2021-2026) & (K Units)

Table 56. World Enclosed Laser Marking Machine Production by Power Range (2027-2032) & (K Units)

Table 57. World Enclosed Laser Marking Machine Production Value by Power Range (2021-2026) & (USD Million)

Table 58. World Enclosed Laser Marking Machine Production Value by Power Range (2027-2032) & (USD Million)

Table 59. World Enclosed Laser Marking Machine Average Price by Power Range (2021-2026) & (US\$/Unit)

Table 60. World Enclosed Laser Marking Machine Average Price by Power Range

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

Table 61. World Enclosed Laser Marking Machine Production Value by Equipment Form, (USD Million), 2021 & 2025 & 2032

Table 62. World Enclosed Laser Marking Machine Production by Equipment Form (2021-2026) & (K Units)

Table 63. World Enclosed Laser Marking Machine Production by Equipment Form (2027-2032) & (K Units)

Table 64. World Enclosed Laser Marking Machine Production Value by Equipment Form (2021-2026) & (USD Million)

Table 65. World Enclosed Laser Marking Machine Production Value by Equipment Form (2027-2032) & (USD Million)

Table 66. World Enclosed Laser Marking Machine Average Price by Equipment Form (2021-2026) & (US\$/Unit)

Table 67. World Enclosed Laser Marking Machine Average Price by Equipment Form (2027-2032) & (US\$/Unit)

Table 68. World Enclosed Laser Marking Machine Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Enclosed Laser Marking Machine Production by Application (2021-2026) & (K Units)

Table 70. World Enclosed Laser Marking Machine Production by Application (2027-2032) & (K Units)

Table 71. World Enclosed Laser Marking Machine Production Value by Application (2021-2026) & (USD Million)

Table 72. World Enclosed Laser Marking Machine Production Value by Application (2027-2032) & (USD Million)

Table 73. World Enclosed Laser Marking Machine Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Enclosed Laser Marking Machine Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. TRUMPF Basic Information, Manufacturing Base and Competitors

Table 76. TRUMPF Major Business

Table 77. TRUMPF Enclosed Laser Marking Machine Product and Services

Table 78. TRUMPF Enclosed Laser Marking Machine Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. TRUMPF Recent Developments/Updates

Table 80. TRUMPF Competitive Strengths & Weaknesses

Table 81. FOBA Laser Marking + Engraving Basic Information, Manufacturing Base and Competitors

Table 82. FOBA Laser Marking + Engraving Major Business

Table 83. FOBA Laser Marking + Engraving Enclosed Laser Marking Machine Product and Services

Table 84. FOBA Laser Marking + Engraving Enclosed Laser Marking Machine Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. FOBA Laser Marking + Engraving Recent Developments/Updates

Table 86. FOBA Laser Marking + Engraving Competitive Strengths & Weaknesses

Table 87. Coherent Basic Information, Manufacturing Base and Competitors

Table 88. Coherent Major Business

Table 89. Coherent Enclosed Laser Marking Machine Product and Services

Table 90. Coherent Enclosed Laser Marking Machine Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Coherent Recent Developments/Updates

Table 92. Coherent Competitive Strengths & Weaknesses

Table 93. Telesis Technologies Basic Information, Manufacturing Base and Competitors

Table 94. Telesis Technologies Major Business

Table 95. Telesis Technologies Enclosed Laser Marking Machine Product and Services

Table 96. Telesis Technologies Enclosed Laser Marking Machine Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Telesis Technologies Recent Developments/Updates

Table 98. Telesis Technologies Competitive Strengths & Weaknesses

Table 99. Gravotech Basic Information, Manufacturing Base and Competitors

Table 100. Gravotech Major Business

Table 101. Gravotech Enclosed Laser Marking Machine Product and Services

Table 102. Gravotech Enclosed Laser Marking Machine Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Gravotech Recent Developments/Updates

Table 104. Gravotech Competitive Strengths & Weaknesses

Table 105. TYKMA ElectroX Basic Information, Manufacturing Base and Competitors

Table 106. TYKMA ElectroX Major Business

Table 107. TYKMA ElectroX Enclosed Laser Marking Machine Product and Services

Table 108. TYKMA ElectroX Enclosed Laser Marking Machine Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. TYKMA ElectroX Recent Developments/Updates

Table 110. TYKMA Electrox Competitive Strengths & Weaknesses

Table 111. AMADA WELD TECH Basic Information, Manufacturing Base and Competitors

Table 112. AMADA WELD TECH Major Business

Table 113. AMADA WELD TECH Enclosed Laser Marking Machine Product and Services

Table 114. AMADA WELD TECH Enclosed Laser Marking Machine Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. AMADA WELD TECH Recent Developments/Updates

Table 116. AMADA WELD TECH Competitive Strengths & Weaknesses

Table 117. MECCO Basic Information, Manufacturing Base and Competitors

Table 118. MECCO Major Business

Table 119. MECCO Enclosed Laser Marking Machine Product and Services

Table 120. MECCO Enclosed Laser Marking Machine Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. MECCO Recent Developments/Updates

Table 122. MECCO Competitive Strengths & Weaknesses

Table 123. Trotec Laser Basic Information, Manufacturing Base and Competitors

Table 124. Trotec Laser Major Business

Table 125. Trotec Laser Enclosed Laser Marking Machine Product and Services

Table 126. Trotec Laser Enclosed Laser Marking Machine Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Trotec Laser Recent Developments/Updates

Table 128. Trotec Laser Competitive Strengths & Weaknesses

Table 129. SISMA Basic Information, Manufacturing Base and Competitors

Table 130. SISMA Major Business

Table 131. SISMA Enclosed Laser Marking Machine Product and Services

Table 132. SISMA Enclosed Laser Marking Machine Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. SISMA Recent Developments/Updates

Table 134. SISMA Competitive Strengths & Weaknesses

Table 135. Epilog Laser Basic Information, Manufacturing Base and Competitors

Table 136. Epilog Laser Major Business

Table 137. Epilog Laser Enclosed Laser Marking Machine Product and Services

Table 138. Epilog Laser Enclosed Laser Marking Machine Production (K Units), Price

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

Table 139. Epilog Laser Recent Developments/Updates

Table 140. Epilog Laser Competitive Strengths & Weaknesses

Table 141. RMI Laser Basic Information, Manufacturing Base and Competitors

Table 142. RMI Laser Major Business

Table 143. RMI Laser Enclosed Laser Marking Machine Product and Services

Table 144. RMI Laser Enclosed Laser Marking Machine Production (K Units), Price
(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 145. RMI Laser Recent Developments/Updates

Table 146. RMI Laser Competitive Strengths & Weaknesses

Table 147. Laserax Basic Information, Manufacturing Base and Competitors

Table 148. Laserax Major Business

Table 149. Laserax Enclosed Laser Marking Machine Product and Services

Table 150. Laserax Enclosed Laser Marking Machine Production (K Units), Price
(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 151. Laserax Recent Developments/Updates

Table 152. Laserax Competitive Strengths & Weaknesses

Table 153. Han's Laser Technology Industry Group Basic Information, Manufacturing
Base and Competitors

Table 154. Han's Laser Technology Industry Group Major Business

Table 155. Han's Laser Technology Industry Group Enclosed Laser Marking Machine
Product and Services

Table 156. Han's Laser Technology Industry Group Enclosed Laser Marking Machine
Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin
and Market Share (2021-2026)

Table 157. Han's Laser Technology Industry Group Recent Developments/Updates

Table 158. Han's Laser Technology Industry Group Competitive Strengths &
Weaknesses

Table 159. HGTECH Basic Information, Manufacturing Base and Competitors

Table 160. HGTECH Major Business

Table 161. HGTECH Enclosed Laser Marking Machine Product and Services

Table 162. HGTECH Enclosed Laser Marking Machine Production (K Units), Price
(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 163. HGTECH Recent Developments/Updates

Table 164. HGTECH Competitive Strengths & Weaknesses

Table 165. Global Key Players of Enclosed Laser Marking Machine Upstream (Raw Materials)

Table 166. Global Enclosed Laser Marking Machine Typical Customers

Table 167. Enclosed Laser Marking Machine Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Enclosed Laser Marking Machine Picture

Figure 2. World Enclosed Laser Marking Machine Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Enclosed Laser Marking Machine Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Enclosed Laser Marking Machine Production (2021-2032) & (K Units)

Figure 5. World Enclosed Laser Marking Machine Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Enclosed Laser Marking Machine Production Value Market Share by Region (2021-2032)

Figure 7. World Enclosed Laser Marking Machine Production Market Share by Region (2021-2032)

Figure 8. North America Enclosed Laser Marking Machine Production (2021-2032) & (K Units)

Figure 9. Europe Enclosed Laser Marking Machine Production (2021-2032) & (K Units)

Figure 10. China Enclosed Laser Marking Machine Production (2021-2032) & (K Units)

Figure 11. Japan Enclosed Laser Marking Machine Production (2021-2032) & (K Units)

Figure 12. Enclosed Laser Marking Machine Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Enclosed Laser Marking Machine Consumption (2021-2032) & (K Units)

Figure 15. World Enclosed Laser Marking Machine Consumption Market Share by Region (2021-2032)

Figure 16. United States Enclosed Laser Marking Machine Consumption (2021-2032) & (K Units)

Figure 17. China Enclosed Laser Marking Machine Consumption (2021-2032) & (K Units)

Figure 18. Europe Enclosed Laser Marking Machine Consumption (2021-2032) & (K Units)

Figure 19. Japan Enclosed Laser Marking Machine Consumption (2021-2032) & (K Units)

Figure 20. South Korea Enclosed Laser Marking Machine Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Enclosed Laser Marking Machine Consumption (2021-2032) & (K Units)

Figure 22. India Enclosed Laser Marking Machine Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Enclosed Laser Marking Machine by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Enclosed Laser Marking Machine Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Enclosed Laser Marking Machine Markets in 2025

Figure 26. United States VS China: Enclosed Laser Marking Machine Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Enclosed Laser Marking Machine Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Enclosed Laser Marking Machine Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Enclosed Laser Marking Machine Production Market Share 2025

Figure 30. China Based Manufacturers Enclosed Laser Marking Machine Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Enclosed Laser Marking Machine Production Market Share 2025

Figure 32. World Enclosed Laser Marking Machine Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Enclosed Laser Marking Machine Production Value Market Share by Type in 2025

Figure 34. UV Laser

Figure 35. Fiber Laser

Figure 36. CO2 Laser

Figure 37. Other

Figure 38. World Enclosed Laser Marking Machine Production Market Share by Type (2021-2032)

Figure 39. World Enclosed Laser Marking Machine Production Value Market Share by Type (2021-2032)

Figure 40. World Enclosed Laser Marking Machine Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World Enclosed Laser Marking Machine Production Value by Power Range, (USD Million), 2021 & 2025 & 2032

Figure 42. World Enclosed Laser Marking Machine Production Value Market Share by Power Range in 2025

Figure 43. Low Power (Below 20 W)

Figure 44. Standard Power (20?50 W)

Figure 45. High Power (Above 50 W)

Figure 46. World Enclosed Laser Marking Machine Production Market Share by Power Range (2021-2032)

Figure 47. World Enclosed Laser Marking Machine Production Value Market Share by Power Range (2021-2032)

Figure 48. World Enclosed Laser Marking Machine Average Price by Power Range (2021-2032) & (US\$/Unit)

Figure 49. World Enclosed Laser Marking Machine Production Value by Equipment Form, (USD Million), 2021 & 2025 & 2032

Figure 50. World Enclosed Laser Marking Machine Production Value Market Share by Equipment Form in 2025

Figure 51. Benchtop Enclosed System

Figure 52. Floor-Standing Workstation

Figure 53. Other

Figure 54. World Enclosed Laser Marking Machine Production Market Share by Equipment Form (2021-2032)

Figure 55. World Enclosed Laser Marking Machine Production Value Market Share by Equipment Form (2021-2032)

Figure 56. World Enclosed Laser Marking Machine Average Price by Equipment Form (2021-2032) & (US\$/Unit)

Figure 57. World Enclosed Laser Marking Machine Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Enclosed Laser Marking Machine Production Value Market Share by Application in 2025

Figure 59. Automotive and Transportation

Figure 60. Electronics and Semiconductors

Figure 61. Medical Devices

Figure 62. Other

Figure 63. World Enclosed Laser Marking Machine Production Market Share by Application (2021-2032)

Figure 64. World Enclosed Laser Marking Machine Production Value Market Share by Application (2021-2032)

Figure 65. World Enclosed Laser Marking Machine Average Price by Application (2021-2032) & (US\$/Unit)

Figure 66. Enclosed Laser Marking Machine Industry Chain

Figure 67. Enclosed Laser Marking Machine Procurement Model

Figure 68. Enclosed Laser Marking Machine Sales Model

Figure 69. Enclosed Laser Marking Machine Sales Channels, Direct Sales, and

Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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