

Global Laser Resistor Trimming Machine Market Research Report 2025(Status and Outlook)

<https://marketpublishers.com/r/GCB69C147E46EN.html>

Date: July 2025

Pages: 166

Price: US\$ 3,200.00 (Single User License)

ID: GCB69C147E46EN

Abstracts

Report Overview

A Laser Resistor Trimming Machine is an advanced, precision engineering device utilized in the electronics manufacturing industry. It is specifically designed for the task of trimming resistors to achieve a precise resistance value. This machine employs a high-precision laser to make micro-adjustments to the resistor's surface, effectively altering its resistance. The process involves directing a laser beam to the resistor's surface, which vaporizes a small portion of the material, thereby changing the resistance. This technology is crucial for applications requiring highly accurate and stable resistance values, such as in precision electronics, aerospace, and automotive industries. The machine is typically equipped with sophisticated software for controlling the trimming process, ensuring repeatability and consistency in the final product. It also features safety mechanisms and precision positioning systems to guarantee the accuracy and reliability of the trimming operation.

In 2024, the global Laser Resistor Trimming Machine market is projected to reach approximately USD xx Million, with expectations to grow at a compound annual growth rate (CAGR) of around xx between 2024 and 2033.

This report provides a deep insight into the global Laser Resistor Trimming Machine market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore,

it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global Laser Resistor Trimming Machine Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the Laser Resistor Trimming Machine market in any manner.

Global Laser Resistor Trimming Machine Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

Key Company

JPT

ESI

ZL-LASER

Han's Semiconductor Test Technology

Beijing Sharp Speed Precision Equipment

SUNIC LASER

GSI Lumonics

Shutian Laser

Tianhong Laser

Trust Laser

Kaichuang Laser

Changchun Guanghua Microelectronics

Xian MicroControl Optoelectronics Technology

SAPPHIRE Laser

AUREL Automation Division

PPI Systems

Bing Yan Laser Equipment

Market Segmentation (by Type)

Simple Resistor Trimming

Functional Resistor Trimming

Market Segmentation (by Application)

Communication

Car

Aerospace

Industrial

Research

Other

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Laser Resistor Trimming Machine Market

Overview of the regional outlook of the Laser Resistor Trimming Machine Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product

type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Laser Resistor Trimming Machine Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Laser Resistor Trimming Machine, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Laser Resistor Trimming Machine

1.2 Key Market Segments

1.2.1 Laser Resistor Trimming Machine Segment by Type

1.2.2 Laser Resistor Trimming Machine Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 LASER RESISTOR TRIMMING MACHINE MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Laser Resistor Trimming Machine Market Size (M USD) Estimates and Forecasts (2020-2033)

2.1.2 Global Laser Resistor Trimming Machine Sales Estimates and Forecasts (2020-2033)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 LASER RESISTOR TRIMMING MACHINE MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Laser Resistor Trimming Machine Product Life Cycle

3.3 Global Laser Resistor Trimming Machine Sales by Manufacturers (2020-2025)

3.4 Global Laser Resistor Trimming Machine Revenue Market Share by Manufacturers (2020-2025)

3.5 Laser Resistor Trimming Machine Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Laser Resistor Trimming Machine Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Laser Resistor Trimming Machine Market Competitive Situation and Trends

3.8.1 Laser Resistor Trimming Machine Market Concentration Rate

3.8.2 Global 5 and 10 Largest Laser Resistor Trimming Machine Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 LASER RESISTOR TRIMMING MACHINE INDUSTRY CHAIN ANALYSIS

4.1 Laser Resistor Trimming Machine Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF LASER RESISTOR TRIMMING MACHINE MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Laser Resistor Trimming Machine Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Laser Resistor Trimming Machine Market

5.7 ESG Ratings of Leading Companies

6 LASER RESISTOR TRIMMING MACHINE MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Laser Resistor Trimming Machine Sales Market Share by Type (2020-2025)

6.3 Global Laser Resistor Trimming Machine Market Size Market Share by Type

(2020-2025)

6.4 Global Laser Resistor Trimming Machine Price by Type (2020-2025)

7 LASER RESISTOR TRIMMING MACHINE MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Laser Resistor Trimming Machine Market Sales by Application (2020-2025)

7.3 Global Laser Resistor Trimming Machine Market Size (M USD) by Application (2020-2025)

7.4 Global Laser Resistor Trimming Machine Sales Growth Rate by Application (2020-2025)

8 LASER RESISTOR TRIMMING MACHINE MARKET SALES BY REGION

8.1 Global Laser Resistor Trimming Machine Sales by Region

8.1.1 Global Laser Resistor Trimming Machine Sales by Region

8.1.2 Global Laser Resistor Trimming Machine Sales Market Share by Region

8.2 Global Laser Resistor Trimming Machine Market Size by Region

8.2.1 Global Laser Resistor Trimming Machine Market Size by Region

8.2.2 Global Laser Resistor Trimming Machine Market Size Market Share by Region

8.3 North America

8.3.1 North America Laser Resistor Trimming Machine Sales by Country

8.3.2 North America Laser Resistor Trimming Machine Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Laser Resistor Trimming Machine Sales by Country

8.4.2 Europe Laser Resistor Trimming Machine Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Laser Resistor Trimming Machine Sales by Region

8.5.2 Asia Pacific Laser Resistor Trimming Machine Market Size by Region

8.5.3 China Market Overview

- 8.5.4 Japan Market Overview
- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Laser Resistor Trimming Machine Sales by Country
 - 8.6.2 South America Laser Resistor Trimming Machine Market Size by Country
 - 8.6.3 Brazil Market Overview
 - 8.6.4 Argentina Market Overview
 - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Laser Resistor Trimming Machine Sales by Region
 - 8.7.2 Middle East and Africa Laser Resistor Trimming Machine Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 LASER RESISTOR TRIMMING MACHINE MARKET PRODUCTION BY REGION

- 9.1 Global Production of Laser Resistor Trimming Machine by Region(2020-2025)
- 9.2 Global Laser Resistor Trimming Machine Revenue Market Share by Region (2020-2025)
- 9.3 Global Laser Resistor Trimming Machine Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Laser Resistor Trimming Machine Production
 - 9.4.1 North America Laser Resistor Trimming Machine Production Growth Rate (2020-2025)
 - 9.4.2 North America Laser Resistor Trimming Machine Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Laser Resistor Trimming Machine Production
 - 9.5.1 Europe Laser Resistor Trimming Machine Production Growth Rate (2020-2025)
 - 9.5.2 Europe Laser Resistor Trimming Machine Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Laser Resistor Trimming Machine Production (2020-2025)
 - 9.6.1 Japan Laser Resistor Trimming Machine Production Growth Rate (2020-2025)
 - 9.6.2 Japan Laser Resistor Trimming Machine Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Laser Resistor Trimming Machine Production (2020-2025)

9.7.1 China Laser Resistor Trimming Machine Production Growth Rate (2020-2025)

9.7.2 China Laser Resistor Trimming Machine Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 JPT

10.1.1 JPT Basic Information

10.1.2 JPT Laser Resistor Trimming Machine Product Overview

10.1.3 JPT Laser Resistor Trimming Machine Product Market Performance

10.1.4 JPT Business Overview

10.1.5 JPT SWOT Analysis

10.1.6 JPT Recent Developments

10.2 ESI

10.2.1 ESI Basic Information

10.2.2 ESI Laser Resistor Trimming Machine Product Overview

10.2.3 ESI Laser Resistor Trimming Machine Product Market Performance

10.2.4 ESI Business Overview

10.2.5 ESI SWOT Analysis

10.2.6 ESI Recent Developments

10.3 ZL-LASER

10.3.1 ZL-LASER Basic Information

10.3.2 ZL-LASER Laser Resistor Trimming Machine Product Overview

10.3.3 ZL-LASER Laser Resistor Trimming Machine Product Market Performance

10.3.4 ZL-LASER Business Overview

10.3.5 ZL-LASER SWOT Analysis

10.3.6 ZL-LASER Recent Developments

10.4 Han's Semiconductor Test Technology

10.4.1 Han's Semiconductor Test Technology Basic Information

10.4.2 Han's Semiconductor Test Technology Laser Resistor Trimming Machine Product Overview

10.4.3 Han's Semiconductor Test Technology Laser Resistor Trimming Machine Product Market Performance

10.4.4 Han's Semiconductor Test Technology Business Overview

10.4.5 Han's Semiconductor Test Technology Recent Developments

10.5 Beijing Sharp Speed Precision Equipment

10.5.1 Beijing Sharp Speed Precision Equipment Basic Information

10.5.2 Beijing Sharp Speed Precision Equipment Laser Resistor Trimming Machine

Product Overview

10.5.3 Beijing Sharp Speed Precision Equipment Laser Resistor Trimming Machine

Product Market Performance

10.5.4 Beijing Sharp Speed Precision Equipment Business Overview

10.5.5 Beijing Sharp Speed Precision Equipment Recent Developments

10.6 SUNIC LASER

10.6.1 SUNIC LASER Basic Information

10.6.2 SUNIC LASER Laser Resistor Trimming Machine Product Overview

10.6.3 SUNIC LASER Laser Resistor Trimming Machine Product Market Performance

10.6.4 SUNIC LASER Business Overview

10.6.5 SUNIC LASER Recent Developments

10.7 GSI Lumonics

10.7.1 GSI Lumonics Basic Information

10.7.2 GSI Lumonics Laser Resistor Trimming Machine Product Overview

10.7.3 GSI Lumonics Laser Resistor Trimming Machine Product Market Performance

10.7.4 GSI Lumonics Business Overview

10.7.5 GSI Lumonics Recent Developments

10.8 Shutian Laser

10.8.1 Shutian Laser Basic Information

10.8.2 Shutian Laser Laser Resistor Trimming Machine Product Overview

10.8.3 Shutian Laser Laser Resistor Trimming Machine Product Market Performance

10.8.4 Shutian Laser Business Overview

10.8.5 Shutian Laser Recent Developments

10.9 Tianhong Laser

10.9.1 Tianhong Laser Basic Information

10.9.2 Tianhong Laser Laser Resistor Trimming Machine Product Overview

10.9.3 Tianhong Laser Laser Resistor Trimming Machine Product Market Performance

10.9.4 Tianhong Laser Business Overview

10.9.5 Tianhong Laser Recent Developments

10.10 Trust Laser

10.10.1 Trust Laser Basic Information

10.10.2 Trust Laser Laser Resistor Trimming Machine Product Overview

10.10.3 Trust Laser Laser Resistor Trimming Machine Product Market Performance

10.10.4 Trust Laser Business Overview

10.10.5 Trust Laser Recent Developments

10.11 Kaichuang Laser

10.11.1 Kaichuang Laser Basic Information

10.11.2 Kaichuang Laser Laser Resistor Trimming Machine Product Overview

10.11.3 Kaichuang Laser Laser Resistor Trimming Machine Product Market

Performance

10.11.4 Kaichuang Laser Business Overview

10.11.5 Kaichuang Laser Recent Developments

10.12 Changchun Guanghua Microelectronics

10.12.1 Changchun Guanghua Microelectronics Basic Information

10.12.2 Changchun Guanghua Microelectronics Laser Resistor Trimming Machine

Product Overview

10.12.3 Changchun Guanghua Microelectronics Laser Resistor Trimming Machine

Product Market Performance

10.12.4 Changchun Guanghua Microelectronics Business Overview

10.12.5 Changchun Guanghua Microelectronics Recent Developments

10.13 Xian MicroControl Optoelectronics Technology

10.13.1 Xian MicroControl Optoelectronics Technology Basic Information

10.13.2 Xian MicroControl Optoelectronics Technology Laser Resistor Trimming

Machine Product Overview

10.13.3 Xian MicroControl Optoelectronics Technology Laser Resistor Trimming

Machine Product Market Performance

10.13.4 Xian MicroControl Optoelectronics Technology Business Overview

10.13.5 Xian MicroControl Optoelectronics Technology Recent Developments

10.14 SAPPHIRE Laser

10.14.1 SAPPHIRE Laser Basic Information

10.14.2 SAPPHIRE Laser Laser Resistor Trimming Machine Product Overview

10.14.3 SAPPHIRE Laser Laser Resistor Trimming Machine Product Market

Performance

10.14.4 SAPPHIRE Laser Business Overview

10.14.5 SAPPHIRE Laser Recent Developments

10.15 AUREL Automation Division

10.15.1 AUREL Automation Division Basic Information

10.15.2 AUREL Automation Division Laser Resistor Trimming Machine Product

Overview

10.15.3 AUREL Automation Division Laser Resistor Trimming Machine Product Market

Performance

10.15.4 AUREL Automation Division Business Overview

10.15.5 AUREL Automation Division Recent Developments

10.16 PPI Systems

10.16.1 PPI Systems Basic Information

10.16.2 PPI Systems Laser Resistor Trimming Machine Product Overview

10.16.3 PPI Systems Laser Resistor Trimming Machine Product Market Performance

10.16.4 PPI Systems Business Overview

- 10.16.5 PPI Systems Recent Developments
- 10.17 Bing Yan Laser Equipment
 - 10.17.1 Bing Yan Laser Equipment Basic Information
 - 10.17.2 Bing Yan Laser Equipment Laser Resistor Trimming Machine Product Overview
 - 10.17.3 Bing Yan Laser Equipment Laser Resistor Trimming Machine Product Market Performance
 - 10.17.4 Bing Yan Laser Equipment Business Overview
 - 10.17.5 Bing Yan Laser Equipment Recent Developments

11 LASER RESISTOR TRIMMING MACHINE MARKET FORECAST BY REGION

- 11.1 Global Laser Resistor Trimming Machine Market Size Forecast
- 11.2 Global Laser Resistor Trimming Machine Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Laser Resistor Trimming Machine Market Size Forecast by Country
 - 11.2.3 Asia Pacific Laser Resistor Trimming Machine Market Size Forecast by Region
 - 11.2.4 South America Laser Resistor Trimming Machine Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of Laser Resistor Trimming Machine by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2033)

- 12.1 Global Laser Resistor Trimming Machine Market Forecast by Type (2026-2033)
 - 12.1.1 Global Forecasted Sales of Laser Resistor Trimming Machine by Type (2026-2033)
 - 12.1.2 Global Laser Resistor Trimming Machine Market Size Forecast by Type (2026-2033)
 - 12.1.3 Global Forecasted Price of Laser Resistor Trimming Machine by Type (2026-2033)
- 12.2 Global Laser Resistor Trimming Machine Market Forecast by Application (2026-2033)
 - 12.2.1 Global Laser Resistor Trimming Machine Sales (K Units) Forecast by Application
 - 12.2.2 Global Laser Resistor Trimming Machine Market Size (M USD) Forecast by Application (2026-2033)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Market Size (M USD) Segment Executive Summary

Table 4. Laser Resistor Trimming Machine Market Size Comparison by Region (M USD)

Table 5. Global Laser Resistor Trimming Machine Sales (K Units) by Manufacturers (2020-2025)

Table 6. Global Laser Resistor Trimming Machine Sales Market Share by Manufacturers (2020-2025)

Table 7. Global Laser Resistor Trimming Machine Revenue (M USD) by Manufacturers (2020-2025)

Table 8. Global Laser Resistor Trimming Machine Revenue Share by Manufacturers (2020-2025)

Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Laser Resistor Trimming Machine as of 2024)

Table 10. Global Market Laser Resistor Trimming Machine Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 11. Manufacturers? Manufacturing Sites, Areas Served

Table 12. Manufacturers? Product Type

Table 13. Global Laser Resistor Trimming Machine Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 14. Mergers & Acquisitions, Expansion Plans

Table 15. Market Overview of Key Raw Materials

Table 16. Midstream Market Analysis

Table 17. Downstream Customer Analysis

Table 18. Key Development Trends

Table 19. Driving Factors

Table 20. Laser Resistor Trimming Machine Market Challenges

Table 21. Goldman Sachs' forecast real GDP growth rate for 2024-2026

Table 22. S&P Global ' Forecast Real GDP Growth Rate For 2024-2027

Table 23. World Bank ' Forecast Real GDP Growth Rate For 2024-2026

Table 24. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 25. Global Laser Resistor Trimming Machine Sales by Type (K Units)

Table 26. Global Laser Resistor Trimming Machine Market Size by Type (M USD)

Table 27. Global Laser Resistor Trimming Machine Sales (K Units) by Type
(2020-2025)

Table 28. Global Laser Resistor Trimming Machine Sales Market Share by Type
(2020-2025)

Table 29. Global Laser Resistor Trimming Machine Market Size (M USD) by Type
(2020-2025)

Table 30. Global Laser Resistor Trimming Machine Market Size Share by Type
(2020-2025)

Table 31. Global Laser Resistor Trimming Machine Price (USD/Unit) by Type
(2020-2025)

Table 32. Global Laser Resistor Trimming Machine Sales (K Units) by Application

Table 33. Global Laser Resistor Trimming Machine Market Size by Application

Table 34. Global Laser Resistor Trimming Machine Sales by Application (2020-2025) &
(K Units)

Table 35. Global Laser Resistor Trimming Machine Sales Market Share by Application
(2020-2025)

Table 36. Global Laser Resistor Trimming Machine Market Size by Application
(2020-2025) & (M USD)

Table 37. Global Laser Resistor Trimming Machine Market Share by Application
(2020-2025)

Table 38. Global Laser Resistor Trimming Machine Sales Growth Rate by Application
(2020-2025)

Table 39. Global Laser Resistor Trimming Machine Sales by Region (2020-2025) & (K
Units)

Table 40. Global Laser Resistor Trimming Machine Sales Market Share by Region
(2020-2025)

Table 41. Global Laser Resistor Trimming Machine Market Size by Region (2020-2025)
& (M USD)

Table 42. Global Laser Resistor Trimming Machine Market Size Market Share by
Region (2020-2025)

Table 43. North America Laser Resistor Trimming Machine Sales by Country
(2020-2025) & (K Units)

Table 44. North America Laser Resistor Trimming Machine Market Size by Country
(2020-2025) & (M USD)

Table 45. Europe Laser Resistor Trimming Machine Sales by Country (2020-2025) & (K
Units)

Table 46. Europe Laser Resistor Trimming Machine Market Size by Country
(2020-2025) & (M USD)

Table 47. Asia Pacific Laser Resistor Trimming Machine Sales by Region (2020-2025)

& (K Units)

Table 48. Asia Pacific Laser Resistor Trimming Machine Market Size by Region (2020-2025) & (M USD)

Table 49. South America Laser Resistor Trimming Machine Sales by Country (2020-2025) & (K Units)

Table 50. South America Laser Resistor Trimming Machine Market Size by Country (2020-2025) & (M USD)

Table 51. Middle East and Africa Laser Resistor Trimming Machine Sales by Region (2020-2025) & (K Units)

Table 52. Middle East and Africa Laser Resistor Trimming Machine Market Size by Region (2020-2025) & (M USD)

Table 53. Global Laser Resistor Trimming Machine Production (K Units) by Region(2020-2025)

Table 54. Global Laser Resistor Trimming Machine Revenue (US\$ Million) by Region (2020-2025)

Table 55. Global Laser Resistor Trimming Machine Revenue Market Share by Region (2020-2025)

Table 56. Global Laser Resistor Trimming Machine Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 57. North America Laser Resistor Trimming Machine Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. Europe Laser Resistor Trimming Machine Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Japan Laser Resistor Trimming Machine Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. China Laser Resistor Trimming Machine Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. JPT Basic Information

Table 62. JPT Laser Resistor Trimming Machine Product Overview

Table 63. JPT Laser Resistor Trimming Machine Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 64. JPT Business Overview

Table 65. JPT SWOT Analysis

Table 66. JPT Recent Developments

Table 67. ESI Basic Information

Table 68. ESI Laser Resistor Trimming Machine Product Overview

Table 69. ESI Laser Resistor Trimming Machine Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 70. ESI Business Overview

Table 71. ESI SWOT Analysis
Table 72. ESI Recent Developments
Table 73. ZL-LASER Basic Information
Table 74. ZL-LASER Laser Resistor Trimming Machine Product Overview
Table 75. ZL-LASER Laser Resistor Trimming Machine Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 76. ZL-LASER Business Overview
Table 77. ZL-LASER SWOT Analysis
Table 78. ZL-LASER Recent Developments
Table 79. Han's Semiconductor Test Technology Basic Information
Table 80. Han's Semiconductor Test Technology Laser Resistor Trimming Machine Product Overview
Table 81. Han's Semiconductor Test Technology Laser Resistor Trimming Machine Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 82. Han's Semiconductor Test Technology Business Overview
Table 83. Han's Semiconductor Test Technology Recent Developments
Table 84. Beijing Sharp Speed Precision Equipment Basic Information
Table 85. Beijing Sharp Speed Precision Equipment Laser Resistor Trimming Machine Product Overview
Table 86. Beijing Sharp Speed Precision Equipment Laser Resistor Trimming Machine Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 87. Beijing Sharp Speed Precision Equipment Business Overview
Table 88. Beijing Sharp Speed Precision Equipment Recent Developments
Table 89. SUNIC LASER Basic Information
Table 90. SUNIC LASER Laser Resistor Trimming Machine Product Overview
Table 91. SUNIC LASER Laser Resistor Trimming Machine Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 92. SUNIC LASER Business Overview
Table 93. SUNIC LASER Recent Developments
Table 94. GSI Lumonics Basic Information
Table 95. GSI Lumonics Laser Resistor Trimming Machine Product Overview
Table 96. GSI Lumonics Laser Resistor Trimming Machine Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 97. GSI Lumonics Business Overview
Table 98. GSI Lumonics Recent Developments
Table 99. Shutian Laser Basic Information
Table 100. Shutian Laser Laser Resistor Trimming Machine Product Overview
Table 101. Shutian Laser Laser Resistor Trimming Machine Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 102. Shutian Laser Business Overview
Table 103. Shutian Laser Recent Developments
Table 104. Tianhong Laser Basic Information
Table 105. Tianhong Laser Laser Resistor Trimming Machine Product Overview
Table 106. Tianhong Laser Laser Resistor Trimming Machine Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 107. Tianhong Laser Business Overview
Table 108. Tianhong Laser Recent Developments
Table 109. Trust Laser Basic Information
Table 110. Trust Laser Laser Resistor Trimming Machine Product Overview
Table 111. Trust Laser Laser Resistor Trimming Machine Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 112. Trust Laser Business Overview
Table 113. Trust Laser Recent Developments
Table 114. Kaichuang Laser Basic Information
Table 115. Kaichuang Laser Laser Resistor Trimming Machine Product Overview
Table 116. Kaichuang Laser Laser Resistor Trimming Machine Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 117. Kaichuang Laser Business Overview
Table 118. Kaichuang Laser Recent Developments
Table 119. Changchun Guanghua Microelectronics Basic Information
Table 120. Changchun Guanghua Microelectronics Laser Resistor Trimming Machine Product Overview
Table 121. Changchun Guanghua Microelectronics Laser Resistor Trimming Machine Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 122. Changchun Guanghua Microelectronics Business Overview
Table 123. Changchun Guanghua Microelectronics Recent Developments
Table 124. Xian MicroControl Optoelectronics Technology Basic Information
Table 125. Xian MicroControl Optoelectronics Technology Laser Resistor Trimming Machine Product Overview
Table 126. Xian MicroControl Optoelectronics Technology Laser Resistor Trimming Machine Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 127. Xian MicroControl Optoelectronics Technology Business Overview
Table 128. Xian MicroControl Optoelectronics Technology Recent Developments
Table 129. SAPPHIRE Laser Basic Information
Table 130. SAPPHIRE Laser Laser Resistor Trimming Machine Product Overview
Table 131. SAPPHIRE Laser Laser Resistor Trimming Machine Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 132. SAPPHIRE Laser Business Overview

Table 133. SAPPHIRE Laser Recent Developments

Table 134. AUREL Automation Division Basic Information

Table 135. AUREL Automation Division Laser Resistor Trimming Machine Product Overview

Table 136. AUREL Automation Division Laser Resistor Trimming Machine Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 137. AUREL Automation Division Business Overview

Table 138. AUREL Automation Division Recent Developments

Table 139. PPI Systems Basic Information

Table 140. PPI Systems Laser Resistor Trimming Machine Product Overview

Table 141. PPI Systems Laser Resistor Trimming Machine Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 142. PPI Systems Business Overview

Table 143. PPI Systems Recent Developments

Table 144. Bing Yan Laser Equipment Basic Information

Table 145. Bing Yan Laser Equipment Laser Resistor Trimming Machine Product Overview

Table 146. Bing Yan Laser Equipment Laser Resistor Trimming Machine Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 147. Bing Yan Laser Equipment Business Overview

Table 148. Bing Yan Laser Equipment Recent Developments

Table 149. Global Laser Resistor Trimming Machine Sales Forecast by Region (2026-2033) & (K Units)

Table 150. Global Laser Resistor Trimming Machine Market Size Forecast by Region (2026-2033) & (M USD)

Table 151. North America Laser Resistor Trimming Machine Sales Forecast by Country (2026-2033) & (K Units)

Table 152. North America Laser Resistor Trimming Machine Market Size Forecast by Country (2026-2033) & (M USD)

Table 153. Europe Laser Resistor Trimming Machine Sales Forecast by Country (2026-2033) & (K Units)

Table 154. Europe Laser Resistor Trimming Machine Market Size Forecast by Country (2026-2033) & (M USD)

Table 155. Asia Pacific Laser Resistor Trimming Machine Sales Forecast by Region (2026-2033) & (K Units)

Table 156. Asia Pacific Laser Resistor Trimming Machine Market Size Forecast by Region (2026-2033) & (M USD)

Table 157. South America Laser Resistor Trimming Machine Sales Forecast by Country

(2026-2033) & (K Units)

Table 158. South America Laser Resistor Trimming Machine Market Size Forecast by Country (2026-2033) & (M USD)

Table 159. Middle East and Africa Laser Resistor Trimming Machine Sales Forecast by Country (2026-2033) & (Units)

Table 160. Middle East and Africa Laser Resistor Trimming Machine Market Size Forecast by Country (2026-2033) & (M USD)

Table 161. Global Laser Resistor Trimming Machine Sales Forecast by Type (2026-2033) & (K Units)

Table 162. Global Laser Resistor Trimming Machine Market Size Forecast by Type (2026-2033) & (M USD)

Table 163. Global Laser Resistor Trimming Machine Price Forecast by Type (2026-2033) & (USD/Unit)

Table 164. Global Laser Resistor Trimming Machine Sales (K Units) Forecast by Application (2026-2033)

Table 165. Global Laser Resistor Trimming Machine Market Size Forecast by Application (2026-2033) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Laser Resistor Trimming Machine
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Laser Resistor Trimming Machine Market Size (M USD), 2024-2033
- Figure 5. Global Laser Resistor Trimming Machine Market Size (M USD) (2020-2033)
- Figure 6. Global Laser Resistor Trimming Machine Sales (K Units) & (2020-2033)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Laser Resistor Trimming Machine Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Laser Resistor Trimming Machine Product Life Cycle
- Figure 13. Laser Resistor Trimming Machine Sales Share by Manufacturers in 2024
- Figure 14. Global Laser Resistor Trimming Machine Revenue Share by Manufacturers in 2024
- Figure 15. Laser Resistor Trimming Machine Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2024
- Figure 16. Global Market Laser Resistor Trimming Machine Average Price (USD/Unit) of Key Manufacturers in 2024
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Laser Resistor Trimming Machine Revenue in 2024
- Figure 18. Industry Chain Map of Laser Resistor Trimming Machine
- Figure 19. Global Laser Resistor Trimming Machine Market PEST Analysis
- Figure 20. Global Laser Resistor Trimming Machine Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Laser Resistor Trimming Machine Market Share by Type
- Figure 27. Sales Market Share of Laser Resistor Trimming Machine by Type (2020-2025)
- Figure 28. Sales Market Share of Laser Resistor Trimming Machine by Type in 2024
- Figure 29. Market Size Share of Laser Resistor Trimming Machine by Type (2020-2025)

Figure 30. Market Size Share of Laser Resistor Trimming Machine by Type in 2024

Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Laser Resistor Trimming Machine Market Share by Application

Figure 33. Global Laser Resistor Trimming Machine Sales Market Share by Application (2020-2025)

Figure 34. Global Laser Resistor Trimming Machine Sales Market Share by Application in 2024

Figure 35. Global Laser Resistor Trimming Machine Market Share by Application (2020-2025)

Figure 36. Global Laser Resistor Trimming Machine Market Share by Application in 2024

Figure 37. Global Laser Resistor Trimming Machine Sales Growth Rate by Application (2020-2025)

Figure 38. Global Laser Resistor Trimming Machine Sales Market Share by Region (2020-2025)

Figure 39. Global Laser Resistor Trimming Machine Market Size Market Share by Region (2020-2025)

Figure 40. North America Laser Resistor Trimming Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Laser Resistor Trimming Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Laser Resistor Trimming Machine Sales Market Share by Country in 2024

Figure 43. North America Laser Resistor Trimming Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Laser Resistor Trimming Machine Market Size Market Share by Country in 2024

Figure 45. U.S. Laser Resistor Trimming Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Laser Resistor Trimming Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Laser Resistor Trimming Machine Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Laser Resistor Trimming Machine Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Laser Resistor Trimming Machine Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Laser Resistor Trimming Machine Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Laser Resistor Trimming Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Laser Resistor Trimming Machine Sales Market Share by Country in 2024

Figure 53. Europe Laser Resistor Trimming Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Laser Resistor Trimming Machine Market Size Market Share by Country in 2024

Figure 55. Germany Laser Resistor Trimming Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Laser Resistor Trimming Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Laser Resistor Trimming Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Laser Resistor Trimming Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Laser Resistor Trimming Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Laser Resistor Trimming Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Laser Resistor Trimming Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Laser Resistor Trimming Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Laser Resistor Trimming Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Laser Resistor Trimming Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Laser Resistor Trimming Machine Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Laser Resistor Trimming Machine Sales Market Share by Region in 2024

Figure 67. Asia Pacific Laser Resistor Trimming Machine Market Size Market Share by Region in 2024

Figure 68. China Laser Resistor Trimming Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Laser Resistor Trimming Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Laser Resistor Trimming Machine Sales and Growth Rate

(2020-2025) & (K Units)

Figure 71. Japan Laser Resistor Trimming Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Laser Resistor Trimming Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Laser Resistor Trimming Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Laser Resistor Trimming Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Laser Resistor Trimming Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Laser Resistor Trimming Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Laser Resistor Trimming Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Laser Resistor Trimming Machine Sales and Growth Rate (K Units)

Figure 79. South America Laser Resistor Trimming Machine Sales Market Share by Country in 2024

Figure 80. South America Laser Resistor Trimming Machine Market Size and Growth Rate (M USD)

Figure 81. South America Laser Resistor Trimming Machine Market Size Market Share by Country in 2024

Figure 82. Brazil Laser Resistor Trimming Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Laser Resistor Trimming Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Laser Resistor Trimming Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Laser Resistor Trimming Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Laser Resistor Trimming Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Laser Resistor Trimming Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Laser Resistor Trimming Machine Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Laser Resistor Trimming Machine Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Laser Resistor Trimming Machine Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Laser Resistor Trimming Machine Market Size Market Share by Region in 2024

Figure 92. Saudi Arabia Laser Resistor Trimming Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Laser Resistor Trimming Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Laser Resistor Trimming Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Laser Resistor Trimming Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Laser Resistor Trimming Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Laser Resistor Trimming Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Laser Resistor Trimming Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Laser Resistor Trimming Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Laser Resistor Trimming Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Laser Resistor Trimming Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Laser Resistor Trimming Machine Production Market Share by Region (2020-2025)

Figure 103. North America Laser Resistor Trimming Machine Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Laser Resistor Trimming Machine Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Laser Resistor Trimming Machine Production (K Units) Growth Rate (2020-2025)

Figure 106. China Laser Resistor Trimming Machine Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Laser Resistor Trimming Machine Sales Forecast by Volume (2020-2033) & (K Units)

Figure 108. Global Laser Resistor Trimming Machine Market Size Forecast by Value (2020-2033) & (M USD)

Figure 109. Global Laser Resistor Trimming Machine Sales Market Share Forecast by

Type (2026-2033)

Figure 110. Global Laser Resistor Trimming Machine Market Share Forecast by Type (2026-2033)

Figure 111. Global Laser Resistor Trimming Machine Sales Forecast by Application (2026-2033)

Figure 112. Global Laser Resistor Trimming Machine Market Share Forecast by Application (2026-2033)

I would like to order

Product name: Global Laser Resistor Trimming Machine Market Research Report 2025(Status and Outlook)

Product link: <https://marketpublishers.com/r/GCB69C147E46EN.html>

Price: US\$ 3,200.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GCB69C147E46EN.html>