

Global Centrotherm VLO Vacuum Solder System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Centrotherm VLO Vacuum Solder System market size is expected to reach \$ 449 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

The Centrotherm VLO Vacuum Solder System is a high-end vacuum soldering and thermal-processing platform designed for low-void and high-reliability joining of semiconductor devices, electronic packages and precision components. The system heats products inside a sealed vacuum chamber and can operate under oxygen-free process atmospheres using hydrogen, formic acid or forming gas to remove surface oxides, improve solder wettability and reduce trapped gas and void formation. Depending on the model and configuration, it can be used for research, pilot production or high-volume manufacturing in power semiconductor packaging, advanced packaging, hybrid microelectronics, optoelectronic devices, MEMS packaging, hermetic sealing and wafer-level processes. Centrotherm's current corresponding product family is marketed primarily under the c.VACUNITE name, with production systems capable of process temperatures up to 650°C and void-affected areas below 1% under suitable process conditions. In 2025, global Centrotherm VLO Vacuum Solder System production reached approximately 816 units, with an average global market price of around 361 k USD/unit, The production capacity for Centrotherm VLO Vacuum Solder System in 2025 was approximately 1000 units. The typical gross profit margin for Centrotherm VLO Vacuum Solder System between 20% and 40%.

The market for Centrotherm VLO and comparable vacuum soldering systems represents a specialized segment of semiconductor back-end, power electronics and precision electronic-assembly equipment. Demand is being driven by the expansion of electric vehicles, renewable-energy converters, industrial power modules, SiC and IGBT

devices, advanced semiconductor packaging, optoelectronics and high-reliability aerospace and defense electronics, where conventional atmospheric reflow may not adequately control solder voids and joint consistency. Market development is shifting toward fluxless or low-residue processing, hydrogen and formic-acid activation, shorter heating and cooling cycles, automated material handling, recipe-based process control and MES integration. However, high capital expenditure, process-specific customization, hydrogen and chemical safety requirements, maintenance complexity and the limited number of qualified equipment suppliers restrict adoption mainly to manufacturers with demanding reliability and production-quality requirements.

Report Scope

This report studies the global Centrotherm VLO Vacuum Solder System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Centrotherm VLO Vacuum Solder System 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 Centrotherm VLO Vacuum Solder System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Centrotherm VLO Vacuum Solder System total production and demand, 2021-2032, (Units)

Global Centrotherm VLO Vacuum Solder System total production value, 2021-2032, (USD Million)

Global Centrotherm VLO Vacuum Solder System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Centrotherm VLO Vacuum Solder System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Centrotherm VLO Vacuum Solder System domestic production, consumption, key domestic manufacturers and share

Global Centrotherm VLO Vacuum Solder System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Centrotherm VLO Vacuum Solder System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Centrotherm VLO Vacuum Solder System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Centrotherm VLO Vacuum Solder System 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 Heller Industries, Rehm Thermal Systems, Kurtz Erska, BTU International, SMT Thermal Discoveries, INTEON Corporation, budatec GmbH, UniTemp GmbH, REK Innovation, INVACU, 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 Centrotherm VLO Vacuum Solder System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 Centrotherm VLO Vacuum Solder System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Centrotherm VLO Vacuum Solder System Market, Segmentation by Type:

Inline Vacuum Reflow Oven

Batch Vacuum Reflow Oven

Global Centrotherm VLO Vacuum Solder System Market, Segmentation by Equipment Structure:

Modular Multi-Chamber Vacuum Reflow Oven

Benchtop Vacuum Reflow Oven

Global Centrotherm VLO Vacuum Solder System Market, Segmentation by Heating Method:

Convection Vacuum Reflow Oven

Hot-Plate Vacuum Reflow Oven

Others

Global Centrotherm VLO Vacuum Solder System Market, Segmentation by Application:

Automotive Electronics

Semiconductor & Advanced Packaging

Power Electronics

Industrial Electronics

Aerospace, Defense & Medical

Other

Companies Profiled:

Heller Industries

Rehm Thermal Systems

Kurtz Ersa

BTU International

SMT Thermal Discoveries

INTEON Corporation

budatec GmbH

UniTemp GmbH

REK Innovation

INVACU

Hirata Corporation

Shinapex

Shenzhen JT Automation Equipment

Guangdong Sun Yan Thermal Technology

Shenzhen Therlicon Technology

Key Questions Answered

1. How big is the global Centrotherm VLO Vacuum Solder System market?
2. What is the demand of the global Centrotherm VLO Vacuum Solder System market?
3. What is the year over year growth of the global Centrotherm VLO Vacuum Solder System market?
4. What is the total value of the global Centrotherm VLO Vacuum Solder System market?
5. Who are the Major Players in the global Centrotherm VLO Vacuum Solder System market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Centrotherm VLO Vacuum Solder System Demand (2021-2032)
- 2.2 World Centrotherm VLO Vacuum Solder System Consumption by Region
 - 2.2.1 World Centrotherm VLO Vacuum Solder System Consumption by Region (2021-2026)
 - 2.2.2 World Centrotherm VLO Vacuum Solder System Consumption Forecast by Region (2027-2032)
- 2.3 United States Centrotherm VLO Vacuum Solder System Consumption (2021-2032)
- 2.4 China Centrotherm VLO Vacuum Solder System Consumption (2021-2032)
- 2.5 Europe Centrotherm VLO Vacuum Solder System Consumption (2021-2032)

- 2.6 Japan Centrotherm VLO Vacuum Solder System Consumption (2021-2032)
- 2.7 South Korea Centrotherm VLO Vacuum Solder System Consumption (2021-2032)
- 2.8 ASEAN Centrotherm VLO Vacuum Solder System Consumption (2021-2032)
- 2.9 India Centrotherm VLO Vacuum Solder System Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Centrotherm VLO Vacuum Solder System Production Value by Manufacturer (2021-2026)
- 3.2 World Centrotherm VLO Vacuum Solder System Production by Manufacturer (2021-2026)
- 3.3 World Centrotherm VLO Vacuum Solder System Average Price by Manufacturer (2021-2026)
- 3.4 Centrotherm VLO Vacuum Solder System Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Centrotherm VLO Vacuum Solder System Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Centrotherm VLO Vacuum Solder System in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Centrotherm VLO Vacuum Solder System in 2025
- 3.6 Centrotherm VLO Vacuum Solder System Market: Overall Company Footprint Analysis
 - 3.6.1 Centrotherm VLO Vacuum Solder System Market: Region Footprint
 - 3.6.2 Centrotherm VLO Vacuum Solder System Market: Company Product Type Footprint
 - 3.6.3 Centrotherm VLO Vacuum Solder System 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: Centrotherm VLO Vacuum Solder System Production Value Comparison

4.1.1 United States VS China: Centrotherm VLO Vacuum Solder System Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Centrotherm VLO Vacuum Solder System Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Centrotherm VLO Vacuum Solder System Production Comparison

4.2.1 United States VS China: Centrotherm VLO Vacuum Solder System Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Centrotherm VLO Vacuum Solder System Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Centrotherm VLO Vacuum Solder System Consumption Comparison

4.3.1 United States VS China: Centrotherm VLO Vacuum Solder System Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Centrotherm VLO Vacuum Solder System Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Centrotherm VLO Vacuum Solder System Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Centrotherm VLO Vacuum Solder System Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Centrotherm VLO Vacuum Solder System Production Value (2021-2026)

4.4.3 United States Based Manufacturers Centrotherm VLO Vacuum Solder System Production (2021-2026)

4.5 China Based Centrotherm VLO Vacuum Solder System Manufacturers and Market Share

4.5.1 China Based Centrotherm VLO Vacuum Solder System Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Centrotherm VLO Vacuum Solder System Production Value (2021-2026)

4.5.3 China Based Manufacturers Centrotherm VLO Vacuum Solder System Production (2021-2026)

4.6 Rest of World Based Centrotherm VLO Vacuum Solder System Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Centrotherm VLO Vacuum Solder System Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Centrotherm VLO Vacuum Solder System Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Centrotherm VLO Vacuum Solder System

Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Centrotherm VLO Vacuum Solder System Market Size Overview by Type:
2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Inline Vacuum Reflow Oven

5.2.2 Batch Vacuum Reflow Oven

5.3 Market Segment by Type

5.3.1 World Centrotherm VLO Vacuum Solder System Production by Type
(2021-2032)

5.3.2 World Centrotherm VLO Vacuum Solder System Production Value by Type
(2021-2032)

5.3.3 World Centrotherm VLO Vacuum Solder System Average Price by Type
(2021-2032)

6 MARKET ANALYSIS BY EQUIPMENT STRUCTURE

6.1 World Centrotherm VLO Vacuum Solder System Market Size Overview by
Equipment Structure: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Equipment Structure

6.2.1 Modular Multi-Chamber Vacuum Reflow Oven

6.2.2 Benchtop Vacuum Reflow Oven

6.3 Market Segment by Equipment Structure

6.3.1 World Centrotherm VLO Vacuum Solder System Production by Equipment
Structure (2021-2032)

6.3.2 World Centrotherm VLO Vacuum Solder System Production Value by Equipment
Structure (2021-2032)

6.3.3 World Centrotherm VLO Vacuum Solder System Average Price by Equipment
Structure (2021-2032)

7 MARKET ANALYSIS BY HEATING METHOD

7.1 World Centrotherm VLO Vacuum Solder System Market Size Overview by Heating
Method: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Heating Method

7.2.1 Convection Vacuum Reflow Oven

7.2.2 Hot-Plate Vacuum Reflow Oven

7.2.3 Others

7.3 Market Segment by Heating Method

7.3.1 World Centrotherm VLO Vacuum Solder System Production by Heating Method (2021-2032)

7.3.2 World Centrotherm VLO Vacuum Solder System Production Value by Heating Method (2021-2032)

7.3.3 World Centrotherm VLO Vacuum Solder System Average Price by Heating Method (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Centrotherm VLO Vacuum Solder System Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Automotive Electronics

8.2.2 Semiconductor & Advanced Packaging

8.2.3 Power Electronics

8.2.4 Industrial Electronics

8.2.5 Aerospace, Defense & Medical

8.2.6 Other

8.3 Market Segment by Application

8.3.1 World Centrotherm VLO Vacuum Solder System Production by Application (2021-2032)

8.3.2 World Centrotherm VLO Vacuum Solder System Production Value by Application (2021-2032)

8.3.3 World Centrotherm VLO Vacuum Solder System Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Heller Industries

9.1.1 Heller Industries Details

9.1.2 Heller Industries Major Business

9.1.3 Heller Industries Centrotherm VLO Vacuum Solder System Product and Services

9.1.4 Heller Industries Centrotherm VLO Vacuum Solder System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Heller Industries Recent Developments/Updates

9.1.6 Heller Industries Competitive Strengths & Weaknesses

9.2 Rehm Thermal Systems

- 9.2.1 Rehm Thermal Systems Details
- 9.2.2 Rehm Thermal Systems Major Business
- 9.2.3 Rehm Thermal Systems Centrotherm VLO Vacuum Solder System Product and Services
- 9.2.4 Rehm Thermal Systems Centrotherm VLO Vacuum Solder System Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 Rehm Thermal Systems Recent Developments/Updates
- 9.2.6 Rehm Thermal Systems Competitive Strengths & Weaknesses
- 9.3 Kurtz Ersä
 - 9.3.1 Kurtz Ersä Details
 - 9.3.2 Kurtz Ersä Major Business
 - 9.3.3 Kurtz Ersä Centrotherm VLO Vacuum Solder System Product and Services
 - 9.3.4 Kurtz Ersä Centrotherm VLO Vacuum Solder System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Kurtz Ersä Recent Developments/Updates
 - 9.3.6 Kurtz Ersä Competitive Strengths & Weaknesses
- 9.4 BTU International
 - 9.4.1 BTU International Details
 - 9.4.2 BTU International Major Business
 - 9.4.3 BTU International Centrotherm VLO Vacuum Solder System Product and Services
 - 9.4.4 BTU International Centrotherm VLO Vacuum Solder System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 BTU International Recent Developments/Updates
 - 9.4.6 BTU International Competitive Strengths & Weaknesses
- 9.5 SMT Thermal Discoveries
 - 9.5.1 SMT Thermal Discoveries Details
 - 9.5.2 SMT Thermal Discoveries Major Business
 - 9.5.3 SMT Thermal Discoveries Centrotherm VLO Vacuum Solder System Product and Services
 - 9.5.4 SMT Thermal Discoveries Centrotherm VLO Vacuum Solder System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 SMT Thermal Discoveries Recent Developments/Updates
 - 9.5.6 SMT Thermal Discoveries Competitive Strengths & Weaknesses
- 9.6 INTEON Corporation
 - 9.6.1 INTEON Corporation Details
 - 9.6.2 INTEON Corporation Major Business
 - 9.6.3 INTEON Corporation Centrotherm VLO Vacuum Solder System Product and Services

9.6.4 INTEON Corporation Centrotherm VLO Vacuum Solder System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 INTEON Corporation Recent Developments/Updates

9.6.6 INTEON Corporation Competitive Strengths & Weaknesses

9.7 budatec GmbH

9.7.1 budatec GmbH Details

9.7.2 budatec GmbH Major Business

9.7.3 budatec GmbH Centrotherm VLO Vacuum Solder System Product and Services

9.7.4 budatec GmbH Centrotherm VLO Vacuum Solder System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 budatec GmbH Recent Developments/Updates

9.7.6 budatec GmbH Competitive Strengths & Weaknesses

9.8 UniTemp GmbH

9.8.1 UniTemp GmbH Details

9.8.2 UniTemp GmbH Major Business

9.8.3 UniTemp GmbH Centrotherm VLO Vacuum Solder System Product and Services

9.8.4 UniTemp GmbH Centrotherm VLO Vacuum Solder System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 UniTemp GmbH Recent Developments/Updates

9.8.6 UniTemp GmbH Competitive Strengths & Weaknesses

9.9 REK Innovation

9.9.1 REK Innovation Details

9.9.2 REK Innovation Major Business

9.9.3 REK Innovation Centrotherm VLO Vacuum Solder System Product and Services

9.9.4 REK Innovation Centrotherm VLO Vacuum Solder System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 REK Innovation Recent Developments/Updates

9.9.6 REK Innovation Competitive Strengths & Weaknesses

9.10 INVACU

9.10.1 INVACU Details

9.10.2 INVACU Major Business

9.10.3 INVACU Centrotherm VLO Vacuum Solder System Product and Services

9.10.4 INVACU Centrotherm VLO Vacuum Solder System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 INVACU Recent Developments/Updates

9.10.6 INVACU Competitive Strengths & Weaknesses

9.11 Hirata Corporation

9.11.1 Hirata Corporation Details

9.11.2 Hirata Corporation Major Business

9.11.3 Hirata Corporation Centrotherm VLO Vacuum Solder System Product and Services

9.11.4 Hirata Corporation Centrotherm VLO Vacuum Solder System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Hirata Corporation Recent Developments/Updates

9.11.6 Hirata Corporation Competitive Strengths & Weaknesses

9.12 Shinapex

9.12.1 Shinapex Details

9.12.2 Shinapex Major Business

9.12.3 Shinapex Centrotherm VLO Vacuum Solder System Product and Services

9.12.4 Shinapex Centrotherm VLO Vacuum Solder System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Shinapex Recent Developments/Updates

9.12.6 Shinapex Competitive Strengths & Weaknesses

9.13 Shenzhen JT Automation Equipment

9.13.1 Shenzhen JT Automation Equipment Details

9.13.2 Shenzhen JT Automation Equipment Major Business

9.13.3 Shenzhen JT Automation Equipment Centrotherm VLO Vacuum Solder System Product and Services

9.13.4 Shenzhen JT Automation Equipment Centrotherm VLO Vacuum Solder System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Shenzhen JT Automation Equipment Recent Developments/Updates

9.13.6 Shenzhen JT Automation Equipment Competitive Strengths & Weaknesses

9.14 Guangdong Sun Yan Thermal Technology

9.14.1 Guangdong Sun Yan Thermal Technology Details

9.14.2 Guangdong Sun Yan Thermal Technology Major Business

9.14.3 Guangdong Sun Yan Thermal Technology Centrotherm VLO Vacuum Solder System Product and Services

9.14.4 Guangdong Sun Yan Thermal Technology Centrotherm VLO Vacuum Solder System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Guangdong Sun Yan Thermal Technology Recent Developments/Updates

9.14.6 Guangdong Sun Yan Thermal Technology Competitive Strengths & Weaknesses

9.15 Shenzhen Therlicon Technology

9.15.1 Shenzhen Therlicon Technology Details

9.15.2 Shenzhen Therlicon Technology Major Business

9.15.3 Shenzhen Therlicon Technology Centrotherm VLO Vacuum Solder System Product and Services

9.15.4 Shenzhen Therlicon Technology Centrotherm VLO Vacuum Solder System

Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Shenzhen Therlicon Technology Recent Developments/Updates

9.15.6 Shenzhen Therlicon Technology Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Centrotherm VLO Vacuum Solder System Industry Chain

10.2 Centrotherm VLO Vacuum Solder System Upstream Analysis

10.2.1 Centrotherm VLO Vacuum Solder System Core Raw Materials

10.2.2 Main Manufacturers of Centrotherm VLO Vacuum Solder System Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Centrotherm VLO Vacuum Solder System Production Mode

10.6 Centrotherm VLO Vacuum Solder System Procurement Model

10.7 Centrotherm VLO Vacuum Solder System Industry Sales Model and Sales Channels

10.7.1 Centrotherm VLO Vacuum Solder System Sales Model

10.7.2 Centrotherm VLO Vacuum Solder System 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 Centrotherm VLO Vacuum Solder System Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Centrotherm VLO Vacuum Solder System Production Value by Region (2021-2026) & (USD Million)

Table 3. World Centrotherm VLO Vacuum Solder System Production Value by Region (2027-2032) & (USD Million)

Table 4. World Centrotherm VLO Vacuum Solder System Production Value Market Share by Region (2021-2026)

Table 5. World Centrotherm VLO Vacuum Solder System Production Value Market Share by Region (2027-2032)

Table 6. World Centrotherm VLO Vacuum Solder System Production by Region (2021-2026) & (Units)

Table 7. World Centrotherm VLO Vacuum Solder System Production by Region (2027-2032) & (Units)

Table 8. World Centrotherm VLO Vacuum Solder System Production Market Share by Region (2021-2026)

Table 9. World Centrotherm VLO Vacuum Solder System Production Market Share by Region (2027-2032)

Table 10. World Centrotherm VLO Vacuum Solder System Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World Centrotherm VLO Vacuum Solder System Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. Centrotherm VLO Vacuum Solder System Major Market Trends

Table 13. World Centrotherm VLO Vacuum Solder System Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Centrotherm VLO Vacuum Solder System Consumption by Region (2021-2026) & (Units)

Table 15. World Centrotherm VLO Vacuum Solder System Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Centrotherm VLO Vacuum Solder System Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Centrotherm VLO Vacuum Solder System Producers in 2025

Table 18. World Centrotherm VLO Vacuum Solder System Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Centrotherm VLO Vacuum Solder System Producers in 2025

Table 20. World Centrotherm VLO Vacuum Solder System Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global Centrotherm VLO Vacuum Solder System Company Evaluation Quadrant

Table 22. World Centrotherm VLO Vacuum Solder System Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Centrotherm VLO Vacuum Solder System Production Site of Key Manufacturer

Table 24. Centrotherm VLO Vacuum Solder System Market: Company Product Type Footprint

Table 25. Centrotherm VLO Vacuum Solder System Market: Company Product Application Footprint

Table 26. Centrotherm VLO Vacuum Solder System Competitive Factors

Table 27. Centrotherm VLO Vacuum Solder System New Entrant and Capacity Expansion Plans

Table 28. Centrotherm VLO Vacuum Solder System Mergers & Acquisitions Activity

Table 29. United States VS China Centrotherm VLO Vacuum Solder System Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Centrotherm VLO Vacuum Solder System Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Centrotherm VLO Vacuum Solder System Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Centrotherm VLO Vacuum Solder System Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Centrotherm VLO Vacuum Solder System Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Centrotherm VLO Vacuum Solder System Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Centrotherm VLO Vacuum Solder System Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Centrotherm VLO Vacuum Solder System Production Market Share (2021-2026)

Table 37. China Based Centrotherm VLO Vacuum Solder System Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Centrotherm VLO Vacuum Solder System Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Centrotherm VLO Vacuum Solder System

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Centrotherm VLO Vacuum Solder System Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Centrotherm VLO Vacuum Solder System Production Market Share (2021-2026)

Table 42. Rest of World Based Centrotherm VLO Vacuum Solder System Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Centrotherm VLO Vacuum Solder System Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Centrotherm VLO Vacuum Solder System Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Centrotherm VLO Vacuum Solder System Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Centrotherm VLO Vacuum Solder System Production Market Share (2021-2026)

Table 47. World Centrotherm VLO Vacuum Solder System Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Centrotherm VLO Vacuum Solder System Production by Type (2021-2026) & (Units)

Table 49. World Centrotherm VLO Vacuum Solder System Production by Type (2027-2032) & (Units)

Table 50. World Centrotherm VLO Vacuum Solder System Production Value by Type (2021-2026) & (USD Million)

Table 51. World Centrotherm VLO Vacuum Solder System Production Value by Type (2027-2032) & (USD Million)

Table 52. World Centrotherm VLO Vacuum Solder System Average Price by Type (2021-2026) & (K US\$/Unit)

Table 53. World Centrotherm VLO Vacuum Solder System Average Price by Type (2027-2032) & (K US\$/Unit)

Table 54. World Centrotherm VLO Vacuum Solder System Production Value by Equipment Structure, (USD Million), 2021 & 2025 & 2032

Table 55. World Centrotherm VLO Vacuum Solder System Production by Equipment Structure (2021-2026) & (Units)

Table 56. World Centrotherm VLO Vacuum Solder System Production by Equipment Structure (2027-2032) & (Units)

Table 57. World Centrotherm VLO Vacuum Solder System Production Value by Equipment Structure (2021-2026) & (USD Million)

Table 58. World Centrotherm VLO Vacuum Solder System Production Value by Equipment Structure (2027-2032) & (USD Million)

Table 59. World Centrotherm VLO Vacuum Solder System Average Price by Equipment Structure (2021-2026) & (K US\$/Unit)

Table 60. World Centrotherm VLO Vacuum Solder System Average Price by Equipment Structure (2027-2032) & (K US\$/Unit)

Table 61. World Centrotherm VLO Vacuum Solder System Production Value by Heating Method, (USD Million), 2021 & 2025 & 2032

Table 62. World Centrotherm VLO Vacuum Solder System Production by Heating Method (2021-2026) & (Units)

Table 63. World Centrotherm VLO Vacuum Solder System Production by Heating Method (2027-2032) & (Units)

Table 64. World Centrotherm VLO Vacuum Solder System Production Value by Heating Method (2021-2026) & (USD Million)

Table 65. World Centrotherm VLO Vacuum Solder System Production Value by Heating Method (2027-2032) & (USD Million)

Table 66. World Centrotherm VLO Vacuum Solder System Average Price by Heating Method (2021-2026) & (K US\$/Unit)

Table 67. World Centrotherm VLO Vacuum Solder System Average Price by Heating Method (2027-2032) & (K US\$/Unit)

Table 68. World Centrotherm VLO Vacuum Solder System Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Centrotherm VLO Vacuum Solder System Production by Application (2021-2026) & (Units)

Table 70. World Centrotherm VLO Vacuum Solder System Production by Application (2027-2032) & (Units)

Table 71. World Centrotherm VLO Vacuum Solder System Production Value by Application (2021-2026) & (USD Million)

Table 72. World Centrotherm VLO Vacuum Solder System Production Value by Application (2027-2032) & (USD Million)

Table 73. World Centrotherm VLO Vacuum Solder System Average Price by Application (2021-2026) & (K US\$/Unit)

Table 74. World Centrotherm VLO Vacuum Solder System Average Price by Application (2027-2032) & (K US\$/Unit)

Table 75. Heller Industries Basic Information, Manufacturing Base and Competitors

Table 76. Heller Industries Major Business

Table 77. Heller Industries Centrotherm VLO Vacuum Solder System Product and Services

Table 78. Heller Industries Centrotherm VLO Vacuum Solder System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Heller Industries Recent Developments/Updates

Table 80. Heller Industries Competitive Strengths & Weaknesses

Table 81. Rehm Thermal Systems Basic Information, Manufacturing Base and Competitors

Table 82. Rehm Thermal Systems Major Business

Table 83. Rehm Thermal Systems Centrotherm VLO Vacuum Solder System Product and Services

Table 84. Rehm Thermal Systems Centrotherm VLO Vacuum Solder System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Rehm Thermal Systems Recent Developments/Updates

Table 86. Rehm Thermal Systems Competitive Strengths & Weaknesses

Table 87. Kurtz Ersä Basic Information, Manufacturing Base and Competitors

Table 88. Kurtz Ersä Major Business

Table 89. Kurtz Ersä Centrotherm VLO Vacuum Solder System Product and Services

Table 90. Kurtz Ersä Centrotherm VLO Vacuum Solder System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Kurtz Ersä Recent Developments/Updates

Table 92. Kurtz Ersä Competitive Strengths & Weaknesses

Table 93. BTU International Basic Information, Manufacturing Base and Competitors

Table 94. BTU International Major Business

Table 95. BTU International Centrotherm VLO Vacuum Solder System Product and Services

Table 96. BTU International Centrotherm VLO Vacuum Solder System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. BTU International Recent Developments/Updates

Table 98. BTU International Competitive Strengths & Weaknesses

Table 99. SMT Thermal Discoveries Basic Information, Manufacturing Base and Competitors

Table 100. SMT Thermal Discoveries Major Business

Table 101. SMT Thermal Discoveries Centrotherm VLO Vacuum Solder System Product and Services

Table 102. SMT Thermal Discoveries Centrotherm VLO Vacuum Solder System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. SMT Thermal Discoveries Recent Developments/Updates

Table 104. SMT Thermal Discoveries Competitive Strengths & Weaknesses

Table 105. INTEON Corporation Basic Information, Manufacturing Base and Competitors
Table 106. INTEON Corporation Major Business
Table 107. INTEON Corporation Centrotherm VLO Vacuum Solder System Product and Services
Table 108. INTEON Corporation Centrotherm VLO Vacuum Solder System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. INTEON Corporation Recent Developments/Updates
Table 110. INTEON Corporation Competitive Strengths & Weaknesses
Table 111. budatec GmbH Basic Information, Manufacturing Base and Competitors
Table 112. budatec GmbH Major Business
Table 113. budatec GmbH Centrotherm VLO Vacuum Solder System Product and Services
Table 114. budatec GmbH Centrotherm VLO Vacuum Solder System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. budatec GmbH Recent Developments/Updates
Table 116. budatec GmbH Competitive Strengths & Weaknesses
Table 117. UniTemp GmbH Basic Information, Manufacturing Base and Competitors
Table 118. UniTemp GmbH Major Business
Table 119. UniTemp GmbH Centrotherm VLO Vacuum Solder System Product and Services
Table 120. UniTemp GmbH Centrotherm VLO Vacuum Solder System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. UniTemp GmbH Recent Developments/Updates
Table 122. UniTemp GmbH Competitive Strengths & Weaknesses
Table 123. REK Innovation Basic Information, Manufacturing Base and Competitors
Table 124. REK Innovation Major Business
Table 125. REK Innovation Centrotherm VLO Vacuum Solder System Product and Services
Table 126. REK Innovation Centrotherm VLO Vacuum Solder System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. REK Innovation Recent Developments/Updates
Table 128. REK Innovation Competitive Strengths & Weaknesses
Table 129. INVACU Basic Information, Manufacturing Base and Competitors
Table 130. INVACU Major Business

Table 131. INVACU Centrotherm VLO Vacuum Solder System Product and Services
Table 132. INVACU Centrotherm VLO Vacuum Solder System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. INVACU Recent Developments/Updates
Table 134. INVACU Competitive Strengths & Weaknesses
Table 135. Hirata Corporation Basic Information, Manufacturing Base and Competitors
Table 136. Hirata Corporation Major Business
Table 137. Hirata Corporation Centrotherm VLO Vacuum Solder System Product and Services
Table 138. Hirata Corporation Centrotherm VLO Vacuum Solder System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. Hirata Corporation Recent Developments/Updates
Table 140. Hirata Corporation Competitive Strengths & Weaknesses
Table 141. Shinapex Basic Information, Manufacturing Base and Competitors
Table 142. Shinapex Major Business
Table 143. Shinapex Centrotherm VLO Vacuum Solder System Product and Services
Table 144. Shinapex Centrotherm VLO Vacuum Solder System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. Shinapex Recent Developments/Updates
Table 146. Shinapex Competitive Strengths & Weaknesses
Table 147. Shenzhen JT Automation Equipment Basic Information, Manufacturing Base and Competitors
Table 148. Shenzhen JT Automation Equipment Major Business
Table 149. Shenzhen JT Automation Equipment Centrotherm VLO Vacuum Solder System Product and Services
Table 150. Shenzhen JT Automation Equipment Centrotherm VLO Vacuum Solder System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. Shenzhen JT Automation Equipment Recent Developments/Updates
Table 152. Shenzhen JT Automation Equipment Competitive Strengths & Weaknesses
Table 153. Guangdong Sun Yan Thermal Technology Basic Information, Manufacturing Base and Competitors
Table 154. Guangdong Sun Yan Thermal Technology Major Business
Table 155. Guangdong Sun Yan Thermal Technology Centrotherm VLO Vacuum Solder System Product and Services
Table 156. Guangdong Sun Yan Thermal Technology Centrotherm VLO Vacuum Solder

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

Table 157. Guangdong Sun Yan Thermal Technology Recent Developments/Updates

Table 158. Guangdong Sun Yan Thermal Technology Competitive Strengths & Weaknesses

Table 159. Shenzhen Therlicon Technology Basic Information, Manufacturing Base and Competitors

Table 160. Shenzhen Therlicon Technology Major Business

Table 161. Shenzhen Therlicon Technology Centrotherm VLO Vacuum Solder System Product and Services

Table 162. Shenzhen Therlicon Technology Centrotherm VLO Vacuum Solder System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Shenzhen Therlicon Technology Recent Developments/Updates

Table 164. Shenzhen Therlicon Technology Competitive Strengths & Weaknesses

Table 165. Global Key Players of Centrotherm VLO Vacuum Solder System Upstream (Raw Materials)

Table 166. Global Centrotherm VLO Vacuum Solder System Typical Customers

Table 167. Centrotherm VLO Vacuum Solder System Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Centrotherm VLO Vacuum Solder System Picture

Figure 2. World Centrotherm VLO Vacuum Solder System Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Centrotherm VLO Vacuum Solder System Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Centrotherm VLO Vacuum Solder System Production (2021-2032) & (Units)

Figure 5. World Centrotherm VLO Vacuum Solder System Average Price (2021-2032) & (K US\$/Unit)

Figure 6. World Centrotherm VLO Vacuum Solder System Production Value Market Share by Region (2021-2032)

Figure 7. World Centrotherm VLO Vacuum Solder System Production Market Share by Region (2021-2032)

Figure 8. North America Centrotherm VLO Vacuum Solder System Production (2021-2032) & (Units)

Figure 9. Europe Centrotherm VLO Vacuum Solder System Production (2021-2032) & (Units)

Figure 10. China Centrotherm VLO Vacuum Solder System Production (2021-2032) & (Units)

Figure 11. Japan Centrotherm VLO Vacuum Solder System Production (2021-2032) & (Units)

Figure 12. Centrotherm VLO Vacuum Solder System Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Centrotherm VLO Vacuum Solder System Consumption (2021-2032) & (Units)

Figure 15. World Centrotherm VLO Vacuum Solder System Consumption Market Share by Region (2021-2032)

Figure 16. United States Centrotherm VLO Vacuum Solder System Consumption (2021-2032) & (Units)

Figure 17. China Centrotherm VLO Vacuum Solder System Consumption (2021-2032) & (Units)

Figure 18. Europe Centrotherm VLO Vacuum Solder System Consumption (2021-2032) & (Units)

Figure 19. Japan Centrotherm VLO Vacuum Solder System Consumption (2021-2032) & (Units)

Figure 20. South Korea Centrotherm VLO Vacuum Solder System Consumption (2021-2032) & (Units)

Figure 21. ASEAN Centrotherm VLO Vacuum Solder System Consumption (2021-2032) & (Units)

Figure 22. India Centrotherm VLO Vacuum Solder System Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Centrotherm VLO Vacuum Solder System by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Centrotherm VLO Vacuum Solder System Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Centrotherm VLO Vacuum Solder System Markets in 2025

Figure 26. United States VS China: Centrotherm VLO Vacuum Solder System Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Centrotherm VLO Vacuum Solder System Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Centrotherm VLO Vacuum Solder System Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Centrotherm VLO Vacuum Solder System Production Market Share 2025

Figure 30. China Based Manufacturers Centrotherm VLO Vacuum Solder System Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Centrotherm VLO Vacuum Solder System Production Market Share 2025

Figure 32. World Centrotherm VLO Vacuum Solder System Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Centrotherm VLO Vacuum Solder System Production Value Market Share by Type in 2025

Figure 34. Inline Vacuum Reflow Oven

Figure 35. Batch Vacuum Reflow Oven

Figure 36. World Centrotherm VLO Vacuum Solder System Production Market Share by Type (2021-2032)

Figure 37. World Centrotherm VLO Vacuum Solder System Production Value Market Share by Type (2021-2032)

Figure 38. World Centrotherm VLO Vacuum Solder System Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 39. World Centrotherm VLO Vacuum Solder System Production Value by Equipment Structure, (USD Million), 2021 & 2025 & 2032

Figure 40. World Centrotherm VLO Vacuum Solder System Production Value Market

Share by Equipment Structure in 2025

Figure 41. Modular Multi-Chamber Vacuum Reflow Oven

Figure 42. Benchtop Vacuum Reflow Oven

Figure 43. World Centrotherm VLO Vacuum Solder System Production Market Share by Equipment Structure (2021-2032)

Figure 44. World Centrotherm VLO Vacuum Solder System Production Value Market Share by Equipment Structure (2021-2032)

Figure 45. World Centrotherm VLO Vacuum Solder System Average Price by Equipment Structure (2021-2032) & (K US\$/Unit)

Figure 46. World Centrotherm VLO Vacuum Solder System Production Value by Heating Method, (USD Million), 2021 & 2025 & 2032

Figure 47. World Centrotherm VLO Vacuum Solder System Production Value Market Share by Heating Method in 2025

Figure 48. Convection Vacuum Reflow Oven

Figure 49. Hot-Plate Vacuum Reflow Oven

Figure 50. Others

Figure 51. World Centrotherm VLO Vacuum Solder System Production Market Share by Heating Method (2021-2032)

Figure 52. World Centrotherm VLO Vacuum Solder System Production Value Market Share by Heating Method (2021-2032)

Figure 53. World Centrotherm VLO Vacuum Solder System Average Price by Heating Method (2021-2032) & (K US\$/Unit)

Figure 54. World Centrotherm VLO Vacuum Solder System Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Centrotherm VLO Vacuum Solder System Production Value Market Share by Application in 2025

Figure 56. Automotive Electronics

Figure 57. Semiconductor & Advanced Packaging

Figure 58. Power Electronics

Figure 59. Industrial Electronics

Figure 60. Aerospace, Defense & Medical

Figure 61. Other

Figure 62. World Centrotherm VLO Vacuum Solder System Production Market Share by Application (2021-2032)

Figure 63. World Centrotherm VLO Vacuum Solder System Production Value Market Share by Application (2021-2032)

Figure 64. World Centrotherm VLO Vacuum Solder System Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 65. Centrotherm VLO Vacuum Solder System Industry Chain

Figure 66. Centrotherm VLO Vacuum Solder System Procurement Model

Figure 67. Centrotherm VLO Vacuum Solder System Sales Model

Figure 68. Centrotherm VLO Vacuum Solder System Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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