

# Global Liquid Cooling Machine Tools Market Growth 2026-2032

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## Abstracts

The global Liquid Cooling Machine Tools market size is predicted to grow from US\$ 1274 million in 2025 to US\$ 2533 million in 2032; it is expected to grow at a CAGR of 10.4% from 2026 to 2032.

Liquid Cooling Machine Tools refer to the comprehensive category of high-precision metal-cutting machine tools specifically engineered for the manufacturing of core metallic components used in liquid cooling thermal management systems. The core manufacturing process revolves around precision CNC machining, encompassing milling, drilling, and turning operations performed on materials such as copper, aluminum, and stainless steel to produce critical components including cold plates, quick disconnect couplings (UQD), manifolds, distributors, and valve bodies. These machine tools are required to deliver micron-level machining accuracy, ensuring the single-pass formation of complex flow channels and sealing surfaces, while simultaneously maintaining high rigidity and efficiency for thin-wall workpiece processing. The equipment category primarily includes Vertical Machining Centers (VMC) and Horizontal Machining Centers (HMC), with manufacturing approaches spanning subtractive manufacturing as the dominant technology and additive manufacturing emerging as a complementary process route. This product category has emerged as a specialized precision manufacturing equipment segment driven by the high-power thermal dissipation requirements of AI computing infrastructure.

## Key Findings

Global liquid cooling machine tools production reached approximately 32,000 units in 2025

The average global market price for liquid cooling machine tools stood at US\$40,000 per unit in 2025

Global production capacity for liquid cooling machine tools totaled 40,000 units in 2025

The industry achieved an average gross margin of 38% in 2025

Asia-Pacific represents the largest regional market, driven by concentrated AI infrastructure investment

## Market Trends

The liquid cooling machine tools industry is undergoing a significant transformation driven by the explosive growth of AI computing power and the corresponding surge in high-density thermal management requirements. Machine tool manufacturers are increasingly developing dedicated machining solutions tailored specifically for liquid cooling component production, with Mazak's MTF2026 exhibition showcasing dedicated machining solutions for AI liquid cooling connectors, semiconductor vacuum chambers, and humanoid robot components. The industry is witnessing a shift toward integrated multi-tasking machines capable of completing turning, drilling, milling, and tapping operations in a single setup, eliminating positioning errors caused by multiple clampings. High-speed and high-rigidity vertical machining centers are being deployed for complex liquid-cooling connector cavity machining, with optional 5-axis rotary tables enabling the processing of complex curved surfaces. The trend toward automated, unmanned production is accelerating, with manufacturers incorporating robotics and flexible manufacturing systems to meet the industry's requirements for high product variety and rapid iteration cycles.

## Market Dynamics

### Drivers

The primary growth driver for the liquid cooling machine tools market is the relentless expansion of AI data center infrastructure and the corresponding escalation in power density per server rack. As AI server single-rack power consumption continues to rise, the imperative for liquid cooling solutions has intensified, driving demand for precision-machined components including cold plates, manifolds, pumps, and quick disconnect couplings. The liquid cooling components market in China alone reached RMB 15.98 billion in 2025, representing 45.2% year-on-year growth. Machine tool orders in liquid

cooling applications have surged, with industry reports indicating that demand for high-speed tapping centers and vertical machining centers for the production of liquid-cooled core structural components remains at elevated levels. The low penetration rate of liquid cooling-specific machine tools relative to total industry demand—estimated at less than 2% in 2025 with projections exceeding 10% in 2026—signals substantial runway for continued growth.

## Restraints

The industry faces several constraints that temper growth. The supply chain for critical components such as ball screws and linear guides remains heavily dependent on Japanese imports, with delivery lead times extending to three months, constraining short-term production capacity and cost structures. The high precision requirements for liquid cooling components demand advanced machine tool capabilities that are not yet universally available across all manufacturing regions. The relatively nascent stage of the liquid cooling market means that equipment demand remains subject to the capacity planning cycles of downstream server manufacturers and the commercialization timelines of liquid cooling solutions. Additionally, the specialization required for liquid cooling component manufacturing creates a barrier to entry for general-purpose machine tool manufacturers without dedicated R&D investment in this application area.

## Opportunities

Significant opportunities exist for machine tool manufacturers that can develop dedicated, application-specific solutions for liquid cooling component production. The emergence of new component geometries—including eccentric holes, side details, and corner structures in liquid-cooling connectors—creates demand for specialized machining capabilities that traditional lathes cannot address. The compound annual growth rate of 49% projected for AI server liquid cooling-related revenue at certain precision machine tool manufacturers through fiscal 2026-2029 underscores the growth potential. Opportunities also exist in the development of hybrid manufacturing approaches combining subtractive and additive manufacturing techniques, as well as in the integration of automation and robotics for high-volume production. The semiconductor equipment and humanoid robotics sectors represent adjacent markets with similar precision machining requirements.

## Challenges

The liquid cooling machine tools industry faces notable risks and challenges. Rapid technological evolution in both liquid cooling system design and machining processes

requires continuous R&D investment and frequent product updates, creating obsolescence risk for existing equipment. The concentration of advanced machine tool manufacturing capabilities in certain geography regions—particularly Japan and Germany—creates supply chain vulnerabilities. Intensifying competition among machine tool manufacturers entering the liquid cooling space may pressure pricing and margins despite the current industry-average gross margin of 38%. The cyclical nature of capital equipment investment means that any slowdown in AI infrastructure spending could disproportionately impact this specialized segment. Additionally, the need for specialized training and technical support for end users adds to the total cost of ownership and may slow adoption rates among smaller manufacturers.

## Industry Chain Analysis

The liquid cooling machine tools industry chain consists of three distinct tiers. The upstream segment encompasses raw material suppliers providing high-grade cast iron, steel, and aluminum for machine tool structures, as well as manufacturers of critical components including spindles, linear guides, ball screws, CNC controllers, and servo motors. The midstream segment consists of the machine tool manufacturers—the primary subject of this report—who integrate these components into complete machining centers specifically configured for liquid cooling production. Key players in this segment include global component leaders such as Yamazaki Mazak, DMG MORI, Haas Automation, Okuma, and Tsugami, alongside Chinese manufacturers including Guangzhou Haozhi Industrial, Jirfine Intelligent Equipment, and General Technology Group. The downstream segment encompasses end users in the liquid cooling component manufacturing industry, including producers of cold plates, quick connectors, manifolds, distributors, and valve bodies, who ultimately supply to data center operators, server manufacturers, and thermal management solution providers. Value creation within this chain is concentrated in the midstream segment, where machine tool manufacturers capture value through precision engineering, application-specific customization, and after-sales service and support.

## Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Liquid Cooling Machine Tools Industry Forecast” looks at past sales and reviews total world Liquid Cooling Machine Tools sales in 2025, providing a comprehensive analysis by region and market sector of projected Liquid Cooling Machine Tools sales for 2026 through 2032. With Liquid Cooling Machine Tools sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Liquid Cooling Machine

Tools industry.

This Insight Report provides a comprehensive analysis of the global Liquid Cooling Machine Tools landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Liquid Cooling Machine Tools portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Liquid Cooling Machine Tools market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Liquid Cooling Machine Tools and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Liquid Cooling Machine Tools.

This report presents a comprehensive overview, market shares, and growth opportunities of Liquid Cooling Machine Tools market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

## **Segmentation by Type:**

Vertical Machining Center

Horizontal Machining Center

## **Segmentation by Technical Approaches:**

Subtractive Manufacturing

Additive Manufacturing

## **Segmentation by Application:**

Liquid Cooling Plate

Distributor

Quick Connector

Manifold

Valve Body

Others

## **This report also splits the market by region:**

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Guangzhou Haozhi Industrial Co.,Ltd

Jirfine Intelligent Equipment Co.,Ltd

China General Technology (Group) Holding Co., Ltd.

Haas Automation?

Mazak USA?

DMG MORI USA?

Okuma America?

Tsugami Corporation

Star Micronics

Yamazaki Mazak

EMCO

SW GmbH

## **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Liquid Cooling Machine Tools market?

What factors are driving Liquid Cooling Machine Tools market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Liquid Cooling Machine Tools market opportunities vary by end market size?

How does Liquid Cooling Machine Tools break out by Type, by Application?

## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### 2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
  - 2.1.1 Global Liquid Cooling Machine Tools Annual Sales 2021-2032
  - 2.1.2 World Current & Future Analysis for Liquid Cooling Machine Tools by Geographic Region, 2021, 2025 & 2032
  - 2.1.3 World Current & Future Analysis for Liquid Cooling Machine Tools by Country/Region, 2021, 2025 & 2032
- 2.2 Liquid Cooling Machine Tools Segment by Type
  - 2.2.1 Vertical Machining Center
  - 2.2.2 Horizontal Machining Center
  - 2.2.3 Liquid Cooling Machine Tools Sales by Type
    - 2.2.3.1 Global Liquid Cooling Machine Tools Sales Market Share by Type (2021-2026)
    - 2.2.3.2 Global Liquid Cooling Machine Tools Revenue and Market Share by Type (2021-2026)
    - 2.2.3.3 Global Liquid Cooling Machine Tools Sale Price by Type (2021-2026)
- 2.3 Liquid Cooling Machine Tools Segment by Technical Approaches
  - 2.3.1 Subtractive Manufacturing
  - 2.3.2 Additive Manufacturing
  - 2.3.3 Liquid Cooling Machine Tools Sales by Technical Approaches
    - 2.3.3.1 Global Liquid Cooling Machine Tools Sales Market Share by Technical Approaches (2021-2026)
    - 2.3.3.2 Global Liquid Cooling Machine Tools Revenue and Market Share by Technical Approaches (2021-2026)
    - 2.3.3.3 Global Liquid Cooling Machine Tools Sale Price by Technical Approaches

(2021-2026)

## 2.4 Liquid Cooling Machine Tools Segment by Application

2.4.1 Liquid Cooling Plate

2.4.2 Distributor

2.4.3 Quick Connector

2.4.4 Manifold

2.4.5 Valve Body

2.4.6 Others

2.4.7 Liquid Cooling Machine Tools Sales by Application

2.4.7.1 Global Liquid Cooling Machine Tools Sale Market Share by Application

(2021-2026)

2.4.7.2 Global Liquid Cooling Machine Tools Revenue and Market Share by Application (2021-2026)

2.4.7.3 Global Liquid Cooling Machine Tools Sale Price by Application (2021-2026)

## 3 GLOBAL BY COMPANY

3.1 Global Liquid Cooling Machine Tools Breakdown Data by Company

3.1.1 Global Liquid Cooling Machine Tools Annual Sales by Company (2021-2026)

3.1.2 Global Liquid Cooling Machine Tools Sales Market Share by Company

(2021-2026)

3.2 Global Liquid Cooling Machine Tools Annual Revenue by Company (2021-2026)

3.2.1 Global Liquid Cooling Machine Tools Revenue by Company (2021-2026)

3.2.2 Global Liquid Cooling Machine Tools Revenue Market Share by Company

(2021-2026)

3.3 Global Liquid Cooling Machine Tools Sale Price by Company

3.4 Key Manufacturers Liquid Cooling Machine Tools Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Liquid Cooling Machine Tools Product Location Distribution

3.4.2 Players Liquid Cooling Machine Tools Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

## 4 WORLD HISTORIC REVIEW FOR LIQUID COOLING MACHINE TOOLS BY GEOGRAPHIC REGION

#### 4.1 World Historic Liquid Cooling Machine Tools Market Size by Geographic Region (2021-2026)

##### 4.1.1 Global Liquid Cooling Machine Tools Annual Sales by Geographic Region (2021-2026)

##### 4.1.2 Global Liquid Cooling Machine Tools Annual Revenue by Geographic Region (2021-2026)

#### 4.2 World Historic Liquid Cooling Machine Tools Market Size by Country/Region (2021-2026)

##### 4.2.1 Global Liquid Cooling Machine Tools Annual Sales by Country/Region (2021-2026)

##### 4.2.2 Global Liquid Cooling Machine Tools Annual Revenue by Country/Region (2021-2026)

#### 4.3 Americas Liquid Cooling Machine Tools Sales Growth

#### 4.4 APAC Liquid Cooling Machine Tools Sales Growth

#### 4.5 Europe Liquid Cooling Machine Tools Sales Growth

#### 4.6 Middle East & Africa Liquid Cooling Machine Tools Sales Growth

### 5 AMERICAS

#### 5.1 Americas Liquid Cooling Machine Tools Sales by Country

##### 5.1.1 Americas Liquid Cooling Machine Tools Sales by Country (2021-2026)

##### 5.1.2 Americas Liquid Cooling Machine Tools Revenue by Country (2021-2026)

#### 5.2 Americas Liquid Cooling Machine Tools Sales by Type (2021-2026)

#### 5.3 Americas Liquid Cooling Machine Tools Sales by Application (2021-2026)

#### 5.4 United States

#### 5.5 Canada

#### 5.6 Mexico

#### 5.7 Brazil

### 6 APAC

#### 6.1 APAC Liquid Cooling Machine Tools Sales by Region

##### 6.1.1 APAC Liquid Cooling Machine Tools Sales by Region (2021-2026)

##### 6.1.2 APAC Liquid Cooling Machine Tools Revenue by Region (2021-2026)

#### 6.2 APAC Liquid Cooling Machine Tools Sales by Type (2021-2026)

#### 6.3 APAC Liquid Cooling Machine Tools Sales by Application (2021-2026)

#### 6.4 China

#### 6.5 Japan

#### 6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

## **7 EUROPE**

7.1 Europe Liquid Cooling Machine Tools by Country

7.1.1 Europe Liquid Cooling Machine Tools Sales by Country (2021-2026)

7.1.2 Europe Liquid Cooling Machine Tools Revenue by Country (2021-2026)

7.2 Europe Liquid Cooling Machine Tools Sales by Type (2021-2026)

7.3 Europe Liquid Cooling Machine Tools Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

## **8 MIDDLE EAST & AFRICA**

8.1 Middle East & Africa Liquid Cooling Machine Tools by Country

8.1.1 Middle East & Africa Liquid Cooling Machine Tools Sales by Country  
(2021-2026)

8.1.2 Middle East & Africa Liquid Cooling Machine Tools Revenue by Country  
(2021-2026)

8.2 Middle East & Africa Liquid Cooling Machine Tools Sales by Type (2021-2026)

8.3 Middle East & Africa Liquid Cooling Machine Tools Sales by Application  
(2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

## **10 MANUFACTURING COST STRUCTURE ANALYSIS**

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Liquid Cooling Machine Tools
- 10.3 Manufacturing Process Analysis of Liquid Cooling Machine Tools
- 10.4 Industry Chain Structure of Liquid Cooling Machine Tools

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

- 11.1 Sales Channel
  - 11.1.1 Direct Channels
  - 11.1.2 Indirect Channels
- 11.2 Liquid Cooling Machine Tools Distributors
- 11.3 Liquid Cooling Machine Tools Customer

## **12 WORLD FORECAST REVIEW FOR LIQUID COOLING MACHINE TOOLS BY GEOGRAPHIC REGION**

- 12.1 Global Liquid Cooling Machine Tools Market Size Forecast by Region
  - 12.1.1 Global Liquid Cooling Machine Tools Forecast by Region (2027-2032)
  - 12.1.2 Global Liquid Cooling Machine Tools Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Liquid Cooling Machine Tools Forecast by Type (2027-2032)
- 12.7 Global Liquid Cooling Machine Tools Forecast by Application (2027-2032)

## **13 KEY PLAYERS ANALYSIS**

- 13.1 Guangzhou Haozhi Industrial Co.,Ltd
  - 13.1.1 Guangzhou Haozhi Industrial Co.,Ltd Company Information
  - 13.1.2 Guangzhou Haozhi Industrial Co.,Ltd Liquid Cooling Machine Tools Product Portfolios and Specifications
  - 13.1.3 Guangzhou Haozhi Industrial Co.,Ltd Liquid Cooling Machine Tools Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.1.4 Guangzhou Haozhi Industrial Co.,Ltd Main Business Overview

- 13.1.5 Guangzhou Haozhi Industrial Co.,Ltd Latest Developments
- 13.2 Jirfine Intelligent Equipment Co.,Ltd
  - 13.2.1 Jirfine Intelligent Equipment Co.,Ltd Company Information
  - 13.2.2 Jirfine Intelligent Equipment Co.,Ltd Liquid Cooling Machine Tools Product Portfolios and Specifications
  - 13.2.3 Jirfine Intelligent Equipment Co.,Ltd Liquid Cooling Machine Tools Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.2.4 Jirfine Intelligent Equipment Co.,Ltd Main Business Overview
  - 13.2.5 Jirfine Intelligent Equipment Co.,Ltd Latest Developments
- 13.3 China General Technology (Group) Holding Co., Ltd.
  - 13.3.1 China General Technology (Group) Holding Co., Ltd. Company Information
  - 13.3.2 China General Technology (Group) Holding Co., Ltd. Liquid Cooling Machine Tools Product Portfolios and Specifications
  - 13.3.3 China General Technology (Group) Holding Co., Ltd. Liquid Cooling Machine Tools Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.3.4 China General Technology (Group) Holding Co., Ltd. Main Business Overview
  - 13.3.5 China General Technology (Group) Holding Co., Ltd. Latest Developments
- 13.4 Haas Automation?
  - 13.4.1 Haas Automation? Company Information
  - 13.4.2 Haas Automation? Liquid Cooling Machine Tools Product Portfolios and Specifications
  - 13.4.3 Haas Automation? Liquid Cooling Machine Tools Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.4.4 Haas Automation? Main Business Overview
  - 13.4.5 Haas Automation? Latest Developments
- 13.5 Mazak USA?
  - 13.5.1 Mazak USA? Company Information
  - 13.5.2 Mazak USA? Liquid Cooling Machine Tools Product Portfolios and Specifications
  - 13.5.3 Mazak USA? Liquid Cooling Machine Tools Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.5.4 Mazak USA? Main Business Overview
  - 13.5.5 Mazak USA? Latest Developments
- 13.6 DMG MORI USA?
  - 13.6.1 DMG MORI USA? Company Information
  - 13.6.2 DMG MORI USA? Liquid Cooling Machine Tools Product Portfolios and Specifications
  - 13.6.3 DMG MORI USA? Liquid Cooling Machine Tools Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.6.4 DMG MORI USA? Main Business Overview
- 13.6.5 DMG MORI USA? Latest Developments
- 13.7 Okuma America?
  - 13.7.1 Okuma America? Company Information
  - 13.7.2 Okuma America? Liquid Cooling Machine Tools Product Portfolios and Specifications
  - 13.7.3 Okuma America? Liquid Cooling Machine Tools Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.7.4 Okuma America? Main Business Overview
  - 13.7.5 Okuma America? Latest Developments
- 13.8 Tsugami Corporation
  - 13.8.1 Tsugami Corporation Company Information
  - 13.8.2 Tsugami Corporation Liquid Cooling Machine Tools Product Portfolios and Specifications
  - 13.8.3 Tsugami Corporation Liquid Cooling Machine Tools Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.8.4 Tsugami Corporation Main Business Overview
  - 13.8.5 Tsugami Corporation Latest Developments
- 13.9 Star Micronics
  - 13.9.1 Star Micronics Company Information
  - 13.9.2 Star Micronics Liquid Cooling Machine Tools Product Portfolios and Specifications
  - 13.9.3 Star Micronics Liquid Cooling Machine Tools Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.9.4 Star Micronics Main Business Overview
  - 13.9.5 Star Micronics Latest Developments
- 13.10 Yamazaki Mazak
  - 13.10.1 Yamazaki Mazak Company Information
  - 13.10.2 Yamazaki Mazak Liquid Cooling Machine Tools Product Portfolios and Specifications
  - 13.10.3 Yamazaki Mazak Liquid Cooling Machine Tools Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.10.4 Yamazaki Mazak Main Business Overview
  - 13.10.5 Yamazaki Mazak Latest Developments
- 13.11 EMCO
  - 13.11.1 EMCO Company Information
  - 13.11.2 EMCO Liquid Cooling Machine Tools Product Portfolios and Specifications
  - 13.11.3 EMCO Liquid Cooling Machine Tools Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 EMCO Main Business Overview

13.11.5 EMCO Latest Developments

13.12 SW GmbH

13.12.1 SW GmbH Company Information

13.12.2 SW GmbH Liquid Cooling Machine Tools Product Portfolios and Specifications

13.12.3 SW GmbH Liquid Cooling Machine Tools Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 SW GmbH Main Business Overview

13.12.5 SW GmbH Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

Table 1. Liquid Cooling Machine Tools Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Liquid Cooling Machine Tools Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Vertical Machining Center

Table 4. Major Players of Horizontal Machining Center

Table 5. Global Liquid Cooling Machine Tools Sales by Type (2021-2026) & (K Units)

Table 6. Global Liquid Cooling Machine Tools Sales Market Share by Type (2021-2026)

Table 7. Global Liquid Cooling Machine Tools Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Liquid Cooling Machine Tools Revenue Market Share by Type (2021-2026)

Table 9. Global Liquid Cooling Machine Tools Sale Price by Type (2021-2026) & (US\$/Unit)

Table 10. Major Players of Subtractive Manufacturing

Table 11. Major Players of Additive Manufacturing

Table 12. Global Liquid Cooling Machine Tools Sales by Technical Approaches (2021-2026) & (K Units)

Table 13. Global Liquid Cooling Machine Tools Sales Market Share by Technical Approaches (2021-2026)

Table 14. Global Liquid Cooling Machine Tools Revenue by Technical Approaches (2021-2026) & (\$ million)

Table 15. Global Liquid Cooling Machine Tools Revenue Market Share by Technical Approaches (2021-2026)

Table 16. Global Liquid Cooling Machine Tools Sale Price by Technical Approaches (2021-2026) & (US\$/Unit)

Table 17. Global Liquid Cooling Machine Tools Sale by Application (2021-2026) & (K Units)

Table 18. Global Liquid Cooling Machine Tools Sale Market Share by Application (2021-2026)

Table 19. Global Liquid Cooling Machine Tools Revenue by Application (2021-2026) & (\$ million)

Table 20. Global Liquid Cooling Machine Tools Revenue Market Share by Application (2021-2026)

Table 21. Global Liquid Cooling Machine Tools Sale Price by Application (2021-2026) &

(US\$/Unit)

Table 22. Global Liquid Cooling Machine Tools Sales by Company (2021-2026) & (K Units)

Table 23. Global Liquid Cooling Machine Tools Sales Market Share by Company (2021-2026)

Table 24. Global Liquid Cooling Machine Tools Revenue by Company (2021-2026) & (\$ millions)

Table 25. Global Liquid Cooling Machine Tools Revenue Market Share by Company (2021-2026)

Table 26. Global Liquid Cooling Machine Tools Sale Price by Company (2021-2026) & (US\$/Unit)

Table 27. Key Manufacturers Liquid Cooling Machine Tools Producing Area Distribution and Sales Area

Table 28. Players Liquid Cooling Machine Tools Products Offered

Table 29. Liquid Cooling Machine Tools Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 30. New Products and Potential Entrants

Table 31. Market M&A Activity & Strategy

Table 32. Global Liquid Cooling Machine Tools Sales by Geographic Region (2021-2026) & (K Units)

Table 33. Global Liquid Cooling Machine Tools Sales Market Share Geographic Region (2021-2026)

Table 34. Global Liquid Cooling Machine Tools Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 35. Global Liquid Cooling Machine Tools Revenue Market Share by Geographic Region (2021-2026)

Table 36. Global Liquid Cooling Machine Tools Sales by Country/Region (2021-2026) & (K Units)

Table 37. Global Liquid Cooling Machine Tools Sales Market Share by Country/Region (2021-2026)

Table 38. Global Liquid Cooling Machine Tools Revenue by Country/Region (2021-2026) & (\$ millions)

Table 39. Global Liquid Cooling Machine Tools Revenue Market Share by Country/Region (2021-2026)

Table 40. Americas Liquid Cooling Machine Tools Sales by Country (2021-2026) & (K Units)

Table 41. Americas Liquid Cooling Machine Tools Sales Market Share by Country (2021-2026)

Table 42. Americas Liquid Cooling Machine Tools Revenue by Country (2021-2026) &

(\$ millions)

Table 43. Americas Liquid Cooling Machine Tools Sales by Type (2021-2026) & (K Units)

Table 44. Americas Liquid Cooling Machine Tools Sales by Application (2021-2026) & (K Units)

Table 45. APAC Liquid Cooling Machine Tools Sales by Region (2021-2026) & (K Units)

Table 46. APAC Liquid Cooling Machine Tools Sales Market Share by Region (2021-2026)

Table 47. APAC Liquid Cooling Machine Tools Revenue by Region (2021-2026) & (\$ millions)

Table 48. APAC Liquid Cooling Machine Tools Sales by Type (2021-2026) & (K Units)

Table 49. APAC Liquid Cooling Machine Tools Sales by Application (2021-2026) & (K Units)

Table 50. Europe Liquid Cooling Machine Tools Sales by Country (2021-2026) & (K Units)

Table 51. Europe Liquid Cooling Machine Tools Revenue by Country (2021-2026) & (\$ millions)

Table 52. Europe Liquid Cooling Machine Tools Sales by Type (2021-2026) & (K Units)

Table 53. Europe Liquid Cooling Machine Tools Sales by Application (2021-2026) & (K Units)

Table 54. Middle East & Africa Liquid Cooling Machine Tools Sales by Country (2021-2026) & (K Units)

Table 55. Middle East & Africa Liquid Cooling Machine Tools Revenue Market Share by Country (2021-2026)

Table 56. Middle East & Africa Liquid Cooling Machine Tools Sales by Type (2021-2026) & (K Units)

Table 57. Middle East & Africa Liquid Cooling Machine Tools Sales by Application (2021-2026) & (K Units)

Table 58. Key Market Drivers & Growth Opportunities of Liquid Cooling Machine Tools

Table 59. Key Market Challenges & Risks of Liquid Cooling Machine Tools

Table 60. Key Industry Trends of Liquid Cooling Machine Tools

Table 61. Liquid Cooling Machine Tools Raw Material

Table 62. Key Suppliers of Raw Materials

Table 63. Liquid Cooling Machine Tools Distributors List

Table 64. Liquid Cooling Machine Tools Customer List

Table 65. Global Liquid Cooling Machine Tools Sales Forecast by Region (2027-2032) & (K Units)

Table 66. Global Liquid Cooling Machine Tools Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 67. Americas Liquid Cooling Machine Tools Sales Forecast by Country (2027-2032) & (K Units)

Table 68. Americas Liquid Cooling Machine Tools Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 69. APAC Liquid Cooling Machine Tools Sales Forecast by Region (2027-2032) & (K Units)

Table 70. APAC Liquid Cooling Machine Tools Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 71. Europe Liquid Cooling Machine Tools Sales Forecast by Country (2027-2032) & (K Units)

Table 72. Europe Liquid Cooling Machine Tools Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 73. Middle East & Africa Liquid Cooling Machine Tools Sales Forecast by Country (2027-2032) & (K Units)

Table 74. Middle East & Africa Liquid Cooling Machine Tools Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 75. Global Liquid Cooling Machine Tools Sales Forecast by Type (2027-2032) & (K Units)

Table 76. Global Liquid Cooling Machine Tools Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 77. Global Liquid Cooling Machine Tools Sales Forecast by Application (2027-2032) & (K Units)

Table 78. Global Liquid Cooling Machine Tools Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 79. Guangzhou Haozhi Industrial Co.,Ltd Basic Information, Liquid Cooling Machine Tools Manufacturing Base, Sales Area and Its Competitors

Table 80. Guangzhou Haozhi Industrial Co.,Ltd Liquid Cooling Machine Tools Product Portfolios and Specifications

Table 81. Guangzhou Haozhi Industrial Co.,Ltd Liquid Cooling Machine Tools Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 82. Guangzhou Haozhi Industrial Co.,Ltd Main Business

Table 83. Guangzhou Haozhi Industrial Co.,Ltd Latest Developments

Table 84. Jirfine Intelligent Equipment Co.,Ltd Basic Information, Liquid Cooling Machine Tools Manufacturing Base, Sales Area and Its Competitors

Table 85. Jirfine Intelligent Equipment Co.,Ltd Liquid Cooling Machine Tools Product Portfolios and Specifications

Table 86. Jirfine Intelligent Equipment Co.,Ltd Liquid Cooling Machine Tools Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 87. Jirfine Intelligent Equipment Co.,Ltd Main Business

Table 88. Jirfine Intelligent Equipment Co.,Ltd Latest Developments

Table 89. China General Technology (Group) Holding Co., Ltd. Basic Information, Liquid Cooling Machine Tools Manufacturing Base, Sales Area and Its Competitors

Table 90. China General Technology (Group) Holding Co., Ltd. Liquid Cooling Machine Tools Product Portfolios and Specifications

Table 91. China General Technology (Group) Holding Co., Ltd. Liquid Cooling Machine Tools Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 92. China General Technology (Group) Holding Co., Ltd. Main Business

Table 93. China General Technology (Group) Holding Co., Ltd. Latest Developments

Table 94. Haas Automation? Basic Information, Liquid Cooling Machine Tools Manufacturing Base, Sales Area and Its Competitors

Table 95. Haas Automation? Liquid Cooling Machine Tools Product Portfolios and Specifications

Table 96. Haas Automation? Liquid Cooling Machine Tools Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 97. Haas Automation? Main Business

Table 98. Haas Automation? Latest Developments

Table 99. Mazak USA? Basic Information, Liquid Cooling Machine Tools Manufacturing Base, Sales Area and Its Competitors

Table 100. Mazak USA? Liquid Cooling Machine Tools Product Portfolios and Specifications

Table 101. Mazak USA? Liquid Cooling Machine Tools Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 102. Mazak USA? Main Business

Table 103. Mazak USA? Latest Developments

Table 104. DMG MORI USA? Basic Information, Liquid Cooling Machine Tools Manufacturing Base, Sales Area and Its Competitors

Table 105. DMG MORI USA? Liquid Cooling Machine Tools Product Portfolios and Specifications

Table 106. DMG MORI USA? Liquid Cooling Machine Tools Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 107. DMG MORI USA? Main Business

Table 108. DMG MORI USA? Latest Developments

Table 109. Okuma America? Basic Information, Liquid Cooling Machine Tools Manufacturing Base, Sales Area and Its Competitors

Table 110. Okuma America? Liquid Cooling Machine Tools Product Portfolios and Specifications

Table 111. Okuma America? Liquid Cooling Machine Tools Sales (K Units), Revenue (\$

Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 112. Okuma America? Main Business

Table 113. Okuma America? Latest Developments

Table 114. Tsugami Corporation Basic Information, Liquid Cooling Machine Tools Manufacturing Base, Sales Area and Its Competitors

Table 115. Tsugami Corporation Liquid Cooling Machine Tools Product Portfolios and Specifications

Table 116. Tsugami Corporation Liquid Cooling Machine Tools Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 117. Tsugami Corporation Main Business

Table 118. Tsugami Corporation Latest Developments

Table 119. Star Micronics Basic Information, Liquid Cooling Machine Tools Manufacturing Base, Sales Area and Its Competitors

Table 120. Star Micronics Liquid Cooling Machine Tools Product Portfolios and Specifications

Table 121. Star Micronics Liquid Cooling Machine Tools Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 122. Star Micronics Main Business

Table 123. Star Micronics Latest Developments

Table 124. Yamazaki Mazak Basic Information, Liquid Cooling Machine Tools Manufacturing Base, Sales Area and Its Competitors

Table 125. Yamazaki Mazak Liquid Cooling Machine Tools Product Portfolios and Specifications

Table 126. Yamazaki Mazak Liquid Cooling Machine Tools Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 127. Yamazaki Mazak Main Business

Table 128. Yamazaki Mazak Latest Developments

Table 129. EMCO Basic Information, Liquid Cooling Machine Tools Manufacturing Base, Sales Area and Its Competitors

Table 130. EMCO Liquid Cooling Machine Tools Product Portfolios and Specifications

Table 131. EMCO Liquid Cooling Machine Tools Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 132. EMCO Main Business

Table 133. EMCO Latest Developments

Table 134. SW GmbH Basic Information, Liquid Cooling Machine Tools Manufacturing Base, Sales Area and Its Competitors

Table 135. SW GmbH Liquid Cooling Machine Tools Product Portfolios and Specifications

Table 136. SW GmbH Liquid Cooling Machine Tools Sales (K Units), Revenue (\$

Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 137. SW GmbH Main Business

Table 138. SW GmbH Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Liquid Cooling Machine Tools
- Figure 2. Liquid Cooling Machine Tools Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Liquid Cooling Machine Tools Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Liquid Cooling Machine Tools Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Liquid Cooling Machine Tools Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Liquid Cooling Machine Tools Sales Market Share by Country/Region (2025)
- Figure 10. Liquid Cooling Machine Tools Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Vertical Machining Center
- Figure 12. Product Picture of Horizontal Machining Center
- Figure 13. Global Liquid Cooling Machine Tools Sales Market Share by Type in 2026
- Figure 14. Global Liquid Cooling Machine Tools Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Subtractive Manufacturing
- Figure 16. Product Picture of Additive Manufacturing
- Figure 17. Global Liquid Cooling Machine Tools Sales Market Share by Technical Approaches in 2026
- Figure 18. Global Liquid Cooling Machine Tools Revenue Market Share by Technical Approaches (2021-2026)
- Figure 19. Liquid Cooling Machine Tools Consumed in Liquid Cooling Plate
- Figure 20. Global Liquid Cooling Machine Tools Market: Liquid Cooling Plate (2021-2026) & (K Units)
- Figure 21. Liquid Cooling Machine Tools Consumed in Distributor
- Figure 22. Global Liquid Cooling Machine Tools Market: Distributor (2021-2026) & (K Units)
- Figure 23. Liquid Cooling Machine Tools Consumed in Quick Connector
- Figure 24. Global Liquid Cooling Machine Tools Market: Quick Connector (2021-2026) & (K Units)
- Figure 25. Liquid Cooling Machine Tools Consumed in Manifold
- Figure 26. Global Liquid Cooling Machine Tools Market: Manifold (2021-2026) & (K

Units)

Figure 27. Liquid Cooling Machine Tools Consumed in Valve Body

Figure 28. Global Liquid Cooling Machine Tools Market: Valve Body (2021-2026) & (K Units)

Figure 29. Liquid Cooling Machine Tools Consumed in Others

Figure 30. Global Liquid Cooling Machine Tools Market: Others (2021-2026) & (K Units)

Figure 31. Global Liquid Cooling Machine Tools Sale Market Share by Application (2025)

Figure 32. Global Liquid Cooling Machine Tools Revenue Market Share by Application in 2025

Figure 33. Liquid Cooling Machine Tools Sales by Company in 2025 (K Units)

Figure 34. Global Liquid Cooling Machine Tools Sales Market Share by Company in 2025

Figure 35. Liquid Cooling Machine Tools Revenue by Company in 2025 (\$ millions)

Figure 36. Global Liquid Cooling Machine Tools Revenue Market Share by Company in 2025

Figure 37. Global Liquid Cooling Machine Tools Sales Market Share by Geographic Region (2021-2026)

Figure 38. Global Liquid Cooling Machine Tools Revenue Market Share by Geographic Region in 2025

Figure 39. Americas Liquid Cooling Machine Tools Sales 2021-2026 (K Units)

Figure 40. Americas Liquid Cooling Machine Tools Revenue 2021-2026 (\$ millions)

Figure 41. APAC Liquid Cooling Machine Tools Sales 2021-2026 (K Units)

Figure 42. APAC Liquid Cooling Machine Tools Revenue 2021-2026 (\$ millions)

Figure 43. Europe Liquid Cooling Machine Tools Sales 2021-2026 (K Units)

Figure 44. Europe Liquid Cooling Machine Tools Revenue 2021-2026 (\$ millions)

Figure 45. Middle East & Africa Liquid Cooling Machine Tools Sales 2021-2026 (K Units)

Figure 46. Middle East & Africa Liquid Cooling Machine Tools Revenue 2021-2026 (\$ millions)

Figure 47. Americas Liquid Cooling Machine Tools Sales Market Share by Country in 2025

Figure 48. Americas Liquid Cooling Machine Tools Revenue Market Share by Country (2021-2026)

Figure 49. Americas Liquid Cooling Machine Tools Sales Market Share by Type (2021-2026)

Figure 50. Americas Liquid Cooling Machine Tools Sales Market Share by Application (2021-2026)

Figure 51. United States Liquid Cooling Machine Tools Revenue Growth 2021-2026 (\$

millions)

Figure 52. Canada Liquid Cooling Machine Tools Revenue Growth 2021-2026 (\$ millions)

Figure 53. Mexico Liquid Cooling Machine Tools Revenue Growth 2021-2026 (\$ millions)

Figure 54. Brazil Liquid Cooling Machine Tools Revenue Growth 2021-2026 (\$ millions)

Figure 55. APAC Liquid Cooling Machine Tools Sales Market Share by Region in 2025

Figure 56. APAC Liquid Cooling Machine Tools Revenue Market Share by Region (2021-2026)

Figure 57. APAC Liquid Cooling Machine Tools Sales Market Share by Type (2021-2026)

Figure 58. APAC Liquid Cooling Machine Tools Sales Market Share by Application (2021-2026)

Figure 59. China Liquid Cooling Machine Tools Revenue Growth 2021-2026 (\$ millions)

Figure 60. Japan Liquid Cooling Machine Tools Revenue Growth 2021-2026 (\$ millions)

Figure 61. South Korea Liquid Cooling Machine Tools Revenue Growth 2021-2026 (\$ millions)

Figure 62. Southeast Asia Liquid Cooling Machine Tools Revenue Growth 2021-2026 (\$ millions)

Figure 63. India Liquid Cooling Machine Tools Revenue Growth 2021-2026 (\$ millions)

Figure 64. Australia Liquid Cooling Machine Tools Revenue Growth 2021-2026 (\$ millions)

Figure 65. China Taiwan Liquid Cooling Machine Tools Revenue Growth 2021-2026 (\$ millions)

Figure 66. Europe Liquid Cooling Machine Tools Sales Market Share by Country in 2025

Figure 67. Europe Liquid Cooling Machine Tools Revenue Market Share by Country (2021-2026)

Figure 68. Europe Liquid Cooling Machine Tools Sales Market Share by Type (2021-2026)

Figure 69. Europe Liquid Cooling Machine Tools Sales Market Share by Application (2021-2026)

Figure 70. Germany Liquid Cooling Machine Tools Revenue Growth 2021-2026 (\$ millions)

Figure 71. France Liquid Cooling Machine Tools Revenue Growth 2021-2026 (\$ millions)

Figure 72. UK Liquid Cooling Machine Tools Revenue Growth 2021-2026 (\$ millions)

Figure 73. Italy Liquid Cooling Machine Tools Revenue Growth 2021-2026 (\$ millions)

Figure 74. Russia Liquid Cooling Machine Tools Revenue Growth 2021-2026 (\$

millions)

Figure 75. Middle East & Africa Liquid Cooling Machine Tools Sales Market Share by Country (2021-2026)

Figure 76. Middle East & Africa Liquid Cooling Machine Tools Sales Market Share by Type (2021-2026)

Figure 77. Middle East & Africa Liquid Cooling Machine Tools Sales Market Share by Application (2021-2026)

Figure 78. Egypt Liquid Cooling Machine Tools Revenue Growth 2021-2026 (\$ millions)

Figure 79. South Africa Liquid Cooling Machine Tools Revenue Growth 2021-2026 (\$ millions)

Figure 80. Israel Liquid Cooling Machine Tools Revenue Growth 2021-2026 (\$ millions)

Figure 81. Turkey Liquid Cooling Machine Tools Revenue Growth 2021-2026 (\$ millions)

Figure 82. GCC Countries Liquid Cooling Machine Tools Revenue Growth 2021-2026 (\$ millions)

Figure 83. Manufacturing Cost Structure Analysis of Liquid Cooling Machine Tools in 2026

Figure 84. Manufacturing Process Analysis of Liquid Cooling Machine Tools

Figure 85. Industry Chain Structure of Liquid Cooling Machine Tools

Figure 86. Channels of Distribution

Figure 87. Global Liquid Cooling Machine Tools Sales Market Forecast by Region (2027-2032)

Figure 88. Global Liquid Cooling Machine Tools Revenue Market Share Forecast by Region (2027-2032)

Figure 89. Global Liquid Cooling Machine Tools Sales Market Share Forecast by Type (2027-2032)

Figure 90. Global Liquid Cooling Machine Tools Revenue Market Share Forecast by Type (2027-2032)

Figure 91. Global Liquid Cooling Machine Tools Sales Market Share Forecast by Application (2027-2032)

Figure 92. Global Liquid Cooling Machine Tools Revenue Market Share Forecast by Application (2027-2032)

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