

Global Liquid Cooling System Component Processing Machine Tool Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Liquid Cooling System Component Processing Machine Tool market size is expected to reach \$ 2727 million by 2032, rising at a market growth of 9.4% CAGR during the forecast period (2026-2032).

In 2025, the global production volume of liquid cooling system component processing machine tools reached approximately 33,800 units, with a global average market price of about US\$42,000 per unit. In the same year, the global total production capacity for these machine tools stood at 42,000 units. The industry average gross profit margin for this product category reached 37%.

Liquid Cooling System Component Processing Machine Tools refer to a broad category of high-precision metal-cutting machine tools specifically used for manufacturing the core metal components of liquid cooling thermal dissipation systems. Their core process is precision CNC machining, which involves milling, drilling, turning, and other operations on materials such as copper, aluminum, and stainless steel to produce key components including cold plates, quick-connect couplings, coolant distribution units (CDUs), manifolds, valve bodies, and more. These machine tools are required to possess micron-level machining accuracy, high rigidity, and high-volume production capabilities to meet the stringent demands of liquid cooling components—namely "zero leakage, mirror-grade surface finish, and micron-level precision"—making them specialized precision manufacturing equipment driven by the high-power cooling requirements of AI computing.

The upstream segment of the industrial chain for liquid cooling system component processing machine tools consists of the manufacturing of core components, including

high-precision metal structural parts such as liquid cooling plates, quick connectors, CDUs (Coolant Distribution Units), manifolds, and the like. The midstream segment comprises CNC machine tools and processing equipment, mainly including 5-axis machining centers, CNC turn-mill compound machines, Swiss-type automatic lathes, precision grinders, and similar equipment. The downstream segment covers liquid cooling system integration and end-use applications, spanning AI data centers, new energy vehicles, high-end industrial manufacturing, and other fields. The liquid cooling demand driven by the AI computing power surge is transmitting from downstream to upstream, spurring a substantial increase in procurement of midstream machine tool equipment.

Report Scope

This report studies the global Liquid Cooling System Component Processing Machine Tool production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Liquid Cooling System Component Processing Machine Tool 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 Liquid Cooling System Component Processing Machine Tool that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Liquid Cooling System Component Processing Machine Tool total production and demand, 2021-2032, (Units)

Global Liquid Cooling System Component Processing Machine Tool total production value, 2021-2032, (USD Million)

Global Liquid Cooling System Component Processing Machine Tool production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Liquid Cooling System Component Processing Machine Tool consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Liquid Cooling System Component Processing Machine Tool domestic production, consumption, key domestic manufacturers and share

Global Liquid Cooling System Component Processing Machine Tool production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Liquid Cooling System Component Processing Machine Tool production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Liquid Cooling System Component Processing Machine Tool production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Liquid Cooling System Component Processing Machine Tool 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 Haas Automation?, Mazak USA?, DMG MORI USA?, Okuma America?, Tsugami Corporation, Star Micronics, Yamazaki Mazak, EMCO, SW GmbH, Guangzhou Haozhi Industrial Co.,Ltd, 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 Liquid Cooling System Component Processing Machine Tool market

Detailed Segmentation:

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

Global Liquid Cooling System Component Processing Machine Tool Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Liquid Cooling System Component Processing Machine Tool Market, Segmentation by Type:

Vertical Machining Center

Horizontal Machining Center

Global Liquid Cooling System Component Processing Machine Tool Market, Segmentation by Technical Approaches:

Subtractive Manufacturing

Additive Manufacturing

Global Liquid Cooling System Component Processing Machine Tool Market, Segmentation by Application:

Liquid Cooling Plate

Distributor

Quick Connector

Manifold

Valve Body

Others

Companies Profiled:

Haas Automation?

Mazak USA?

DMG MORI USA?

Okuma America?

Tsugami Corporation

Star Micronics

Yamazaki Mazak

EMCO

SW GmbH

Guangzhou Haozhi Industrial Co.,Ltd

Jirfine Intelligent Equipment Co.,Ltd

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

Key Questions Answered

1. How big is the global Liquid Cooling System Component Processing Machine Tool market?
2. What is the demand of the global Liquid Cooling System Component Processing Machine Tool market?
3. What is the year over year growth of the global Liquid Cooling System Component Processing Machine Tool market?
4. What is the total value of the global Liquid Cooling System Component Processing Machine Tool market?
5. Who are the Major Players in the global Liquid Cooling System Component Processing Machine Tool market?
6. What are the growth factors driving the market demand?

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