

Global Automatic Vertical Tube Expander Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Automatic Vertical Tube Expander market size was valued at US\$ 115 million in 2025 and is forecast to a readjusted size of US\$ 163 million by 2032 with a CAGR of 5.0% during review period.

Automatic Vertical Tube Expander is an automated vertical expansion machine used in heat exchanger manufacturing, designed to complete tube positioning, expansion, force control, and operation sequencing with a higher level of automation. Compared with general vertical electric expansion equipment, this product definition emphasizes automatic process coordination, repeatable tube expansion, reduced manual intervention, compact vertical layout, and stable tube-fin bonding for standardized and batch-oriented heat exchanger core production. In 2025, production was 4,000 units and the average price was USD 28,000 per unit. The industry's capacity utilization rate in 2025 was about 65%, and the average gross margin was around 25%. Upstream, the key inputs include alloy steel, hydraulic pumps, and servo motors, with representative suppliers such as Baowu Steel Group, Bosch Rexroth, and Yaskawa Electric providing steel materials, hydraulic systems, and motion-control components. The midstream segment focuses on vertical frame structure design, automatic expansion mechanism assembly, electric drive control, hydraulic coordination, tube positioning, expansion force adjustment, tooling matching, precision calibration, automation program development, safety protection, reliability testing, and final equipment commissioning, which together determine automation level, expansion accuracy, operating stability, production efficiency, equipment durability, and cost competitiveness. Downstream, Automatic Vertical Tube Expander is mainly used in air-conditioning heat exchangers, refrigerator heat exchangers, and automotive heat exchanger production, where it supports tube-fin assembly for evaporators, condensers, radiators, and other heat

exchange components, with representative customers including Midea Group, Haier Smart Home, and Denso.

Automatic Vertical Tube Expander demand will be shaped by heat exchanger plants shifting from operator-dependent expansion to more standardized, repeatable automated processing. In air-conditioning heat exchangers, large-volume production needs stable tube alignment, controlled expansion depth, and fewer manual adjustments to keep assembly quality consistent. Refrigerator heat exchanger lines are more sensitive to floor space and operating simplicity, making the vertical automated structure practical for compact workshops. Automotive heat exchanger production adds demand for process traceability and quick tooling adaptation across different core designs. Buyers will increasingly judge equipment by automation reliability, expansion-force consistency, positioning accuracy, maintenance workload, and linkage with upstream and downstream handling systems.

This report is a detailed and comprehensive analysis for global Automatic Vertical Tube Expander market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Automatic Vertical Tube Expander market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Automatic Vertical Tube Expander market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Automatic Vertical Tube Expander market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Automatic Vertical Tube Expander market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Automatic Vertical Tube Expander

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Automatic Vertical Tube Expander market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Burr OAK Tool (USA), SMAC Intelligent Technology (China), JDM Jingda Machine (China), Ningbo Xin Chang Machinery (China), NTJF Intelligent Equipment (China), OMS Machinery (China), Satis Machinery (China), SINOAK Machinery (China), Tridan International (USA), Sugino Machine (Japan), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Automatic Vertical Tube Expander market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Mechanical Tube Expanding Machine

Hydraulic Tube Expanding Machine

Market segment by Station

Single-Station

Double-Station

Others

Market segment by Speed

Speed%oO%4m/min

4m/min?Speed%oO%8m/min

Others

Market segment by Application

Air Conditioning Heat Exchanger

Refrigerator Heat Exchanger

Automotive Heat Exchanger

Other

Major players covered

Burr OAK Tool (USA)

SMAC Intelligent Technology (China)

JDM Jingda Machine (China)

Ningbo Xin Chang Machinery (China)

NTJF Intelligent Equipment (China)

OMS Machinery (China)

Satis Machinery (China)

SINOAK Machinery (China)

Tridan International (USA)

Sugino Machine (Japan)

Maus Italia (Italy)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Automatic Vertical Tube Expander product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automatic Vertical Tube Expander, with price, sales quantity, revenue, and global market share of Automatic Vertical Tube Expander from 2021 to 2026.

Chapter 3, the Automatic Vertical Tube Expander competitive situation, sales quantity,

revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automatic Vertical Tube Expander breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Automatic Vertical Tube Expander market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automatic Vertical Tube Expander.

Chapter 14 and 15, to describe Automatic Vertical Tube Expander sales channel, distributors, customers, research findings and conclusion.

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