

Global Multi-rod Tube Expander Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Multi-rod Tube Expander market size is expected to reach \$ 225 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

Multi-rod Tube Expander is a specialized expansion machine used in heat exchanger manufacturing, applying multiple expansion rods simultaneously to enlarge tubes and tightly combine them with fins, thereby improving tube-fin bonding quality and production efficiency. Compared with single-rod or low-station expansion equipment, its advantages lie in higher processing efficiency, better expansion consistency across multiple tubes, stronger suitability for large heat exchanger cores, lower labor dependence, and improved batch production stability. In 2025, production was 3,750 units and the average price was USD 40,000 per unit. The industry's capacity utilization rate in 2025 was about 65%, and the average gross margin was around 26%.

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 frame machining, multi-rod expansion mechanism design, expansion rod synchronization, hydraulic and servo control integration, tube positioning, expansion force control, precision calibration, automation program development, safety protection, reliability testing, and final equipment commissioning, which together determine expansion accuracy, multi-tube consistency, operating stability, production efficiency, equipment durability, and cost competitiveness.

Downstream, Multi-rod 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.

Multi-rod Tube Expander demand will be shaped by heat exchanger manufacturers moving from manual or low-station expansion toward synchronized multi-tube processing. In air-conditioning heat exchangers, higher production volume and thinner tube-fin structures require stable expansion force, consistent tube contact, and shorter cycle time. Refrigerator heat exchanger production values repeatability because small dimensional deviations can affect assembly yield and thermal efficiency. In automotive heat exchangers, larger cores and diversified specifications make multi-rod synchronization, positioning accuracy, and tooling adaptability more important. Equipment buyers will focus on expansion consistency, hydraulic-servo coordination, rod durability, changeover convenience, and integration with automated loading systems.

This report studies the global Multi-rod Tube Expander production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Multi-rod Tube Expander 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 Multi-rod Tube Expander that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Multi-rod Tube Expander total production and demand, 2021-2032, (Units)

Global Multi-rod Tube Expander total production value, 2021-2032, (USD Million)

Global Multi-rod Tube Expander production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Multi-rod Tube Expander consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Multi-rod Tube Expander domestic production, consumption, key domestic manufacturers and share

Global Multi-rod Tube Expander production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Multi-rod Tube Expander production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Multi-rod Tube Expander production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Multi-rod Tube Expander 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Multi-rod Tube Expander 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 Multi-rod Tube Expander Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Multi-rod Tube Expander Market, Segmentation by Type:

Mechanical Tube Expanding Machine

Hydraulic Tube Expanding Machine

Global Multi-rod Tube Expander Market, Segmentation by Machine Structure:

Vertical Forced Tube Expanding Machine

Horizontal Forced Tube Expanding Machine

Global Multi-rod Tube Expander Market, Segmentation by Speed:

Speed

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