

Global Shrinkless 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 Shrinkless Tube Expander market size was valued at US\$ 123 million in 2025 and is forecast to a readjusted size of US\$ 173 million by 2032 with a CAGR of 4.9% during review period.

Shrinkless Tube Expander is a specialized tube-expanding machine used in heat exchanger manufacturing, applying controlled mechanical or hydraulic expansion force to enlarge tubes and tightly lock them with fins while reducing tube shrinkage and dimensional deformation. Its value lies in higher expansion consistency, better tube-fin contact, improved heat transfer efficiency, stronger product dimensional stability, and suitability for mass production of air-conditioning and refrigerator heat exchangers. In 2025, production was 4,000 units and the average price was USD 30,000 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, servo motors, and rollers, 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, expansion head design, hydraulic and servo control integration, roller mechanism assembly, tube positioning, expansion force control, precision calibration, automation program development, safety protection, reliability testing, and final equipment commissioning, which together determine expansion accuracy, operating stability, production efficiency, equipment durability, and cost competitiveness. Downstream, Shrinkless Tube Expander is mainly used in air-conditioning heat exchangers and refrigerator heat exchangers, where it supports tube-fin assembly and heat exchanger production for household appliances and refrigeration equipment, with representative customers including Midea Group, Gree Electric Appliances, and Haier Smart Home.

Shrinkless Tube Expander demand will be tied less to general equipment replacement and more to heat exchanger manufacturers' need for stable tube-fin bonding and higher production consistency. Air-conditioning heat exchanger producers will focus on expansion accuracy, cycle efficiency, and reduced deformation as product structures become thinner and more compact. Refrigerator heat exchanger manufacturers will value dimensional stability and repeatability because small defects can affect assembly yield and thermal performance. With appliance producers pushing automation and cost control, equipment suppliers will be judged by hydraulic control precision, roller durability, tooling adaptability, maintenance convenience, and integration with automated production lines.

This report is a detailed and comprehensive analysis for global Shrinkless 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 Shrinkless Tube Expander market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Shrinkless 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 Shrinkless 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 Shrinkless 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 Shrinkless 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 Shrinkless 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

Shrinkless 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 Machine Structure

Vertical Forced Tube Expanding Machine

Horizontal Forced Tube Expanding Machine

Market segment by Speed

Speed

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