

Global Containment Apparatus for Battery Tray Rack 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 Containment Apparatus for Battery Tray Rack market size was valued at US\$ 64.82 million in 2025 and is forecast to a readjusted size of US\$ 117 million by 2032 with a CAGR of 8.8% during review period.

In 2025, global sales of Containment Apparatus for Battery Tray Rack are estimated at approximately 420 units/sets, with the mainstream enterprise-side average price at around US\$150,000 per unit/set. The gross margin of major manufacturers in the industry is approximately 28%?42%.

Containment Apparatus for Battery Tray Rack is a specialized automated equipment used in the back-end manufacturing process of lithium-ion battery. It is mainly used together with Battery Restraint Tray. Before and after cell formation, capacity grading, resting or testing, the equipment performs positioning, pre-pressing, pressing, locking, unlocking, pressure release and restraint release operations on the restraint tray. Its core function is not to directly carry the cell, but to automatically apply and release restraint on the tray already loaded with cell, so that prismatic cell, blade cell or pouch cell can maintain controlled pressure or controlled spacing during formation and capacity grading, and can be quickly released and transferred after the process is completed. Compared with manual pressing, manual locking or single fixture operation, Battery Restraint and Release Equipment features stable pressure control, consistent cycle time, high automation level and strong suitability for mass production. It is a key supporting equipment for restrained formation line, prismatic cell formation and grading line, and large-capacity energy storage cell post-processing line.

Its upstream supply chain mainly includes machine frame sheet metal, servo motor, reducer, lead screw, cylinder, hydraulic or gas-liquid booster system, pressure sensor, displacement sensor, PLC, industrial control system, conveyor roller, clamping and positioning mechanism, tightening mechanism and safety protection component. These components require high standards in structural rigidity, positioning accuracy, pressure control accuracy, cycle stability and long-term operating reliability. Midstream participants mainly include lithium battery back-end equipment manufacturer, formation and grading equipment supplier, automation line integrator and non-standard automation equipment manufacturer. Downstream demand mainly comes from power battery, energy storage battery, and some consumer and light-duty battery manufacturer. With increasing requirements for restrained formation, consistency control and automated production efficiency in prismatic cell, blade cell and large-capacity energy storage cell, Battery Restraint and Release Equipment is gradually developing toward online operation, integrated design, high pressure-control accuracy, flexible compatibility and full-line coordination.

Report Scope

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

Global Containment Apparatus for Battery Tray Rack market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Containment Apparatus for Battery Tray Rack 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 Containment Apparatus for Battery Tray Rack 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 Containment Apparatus for Battery Tray Rack
- 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 Containment Apparatus for Battery Tray Rack 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 Dongguan Shuangren Mechanical Equipment Technology, Titan New Power, Wuxi Climb Intelligent Technology, Shenzhen Herunda Technology, etc.

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

Market Segmentation

Containment Apparatus for Battery Tray Rack 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

Online Type

Offline Type

Market segment by Locking Mechanism

Insert Block Type

Locking Pin Type

Market segment by Application

Power Battery Manufacturing

Energy Storage Battery Manufacturing

Other

Major players covered

Dongguan Shuangren Mechanical Equipment Technology

Titan New Power

Wuxi Climb Intelligent Technology

Shenzhen Herunda Technology

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)

Chapter Outline

Chapter 1, to describe Containment Apparatus for Battery Tray Rack product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Containment Apparatus for Battery Tray Rack, with price, sales quantity, revenue, and global market share of Containment Apparatus for Battery Tray Rack from 2021 to 2026.

Chapter 3, the Containment Apparatus for Battery Tray Rack competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Containment Apparatus for Battery Tray Rack 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 Containment Apparatus for Battery Tray Rack 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 Containment Apparatus for Battery Tray Rack.

Chapter 14 and 15, to describe Containment Apparatus for Battery Tray Rack sales channel, distributors, customers, research findings and conclusion.

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