

Global Hydraulic Balanced Electric Roller Press Machine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Hydraulic Balanced Electric Roller Press Machine market size is expected to reach \$ 56.67 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

In 2025, global sales volume of hydraulic balanced electric roller press machine was approximately 1,350 units, with a mainstream ex-factory price of around USD 27,000 per unit. The gross margin of major manufacturers in the industry was approximately 28%-42%.

A hydraulic balanced electric roller press machine is a two-roll calendering device used for the compaction and calendering of thin-sheet materials such as battery electrodes and functional material sheets. It is generally composed of upper and lower high-hardness rollers, an electric drive system, a hydraulic pressurizing system, a roll gap adjustment mechanism, a transmission system, and a safety control system. Compared with ordinary electric roller presses, its core feature is that it uses a hydraulic system to provide stable rolling pressure, while the hydraulic balancing structure improves the force consistency on both sides. This enables the sheet material to achieve more uniform thickness, more stable compaction performance, and better surface flatness during rolling. The equipment is commonly used in small-scale and pilot-scale preparation of electrodes for lithium-ion batteries, sodium-ion batteries, solid-state batteries, and supercapacitors, and can also be used for calendering conductive films, composite films, and experimental sheet materials.

The upstream supply chain of hydraulic balanced electric roller press machine mainly includes high-hardness alloy steel rollers, stainless steel frames, hydraulic pump

stations, cylinders, servo or variable-frequency motors, reducers, bearings, sensors, electrical control components, and heating temperature-control components. Among them, roller precision, hydraulic system stability, and control system performance directly affect the consistency of the calendering process. Downstream demand mainly comes from battery material research institutions, battery company pilot lines, electrode preparation laboratories, and functional material development companies. Core demand is concentrated on improving electrode compaction density, controlling thickness consistency, validating material processes, and preparing small-batch samples. With the continuous iteration of battery material systems and the expansion of laboratory and pilot-line construction, demand for this type of equipment is expected to continue upgrading toward higher precision, automation, heating capability, and combined pressure-roll gap control.

This report studies the global Hydraulic Balanced Electric Roller Press Machine production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hydraulic Balanced Electric Roller Press Machine 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 Hydraulic Balanced Electric Roller Press Machine that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Hydraulic Balanced Electric Roller Press Machine total production and demand, 2021-2032, (Units)

Global Hydraulic Balanced Electric Roller Press Machine total production value, 2021-2032, (USD Million)

Global Hydraulic Balanced Electric Roller Press Machine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Hydraulic Balanced Electric Roller Press Machine consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Hydraulic Balanced Electric Roller Press Machine domestic production, consumption, key domestic manufacturers and share

Global Hydraulic Balanced Electric Roller Press Machine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Hydraulic Balanced Electric Roller Press Machine production by Type,

production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Hydraulic Balanced Electric Roller Press Machine production by Application,
production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Hydraulic Balanced Electric Roller Press Machine 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 Shenzhen Kejing Star Technology, Xiamen TOB New Energy Technology, Xiamen Tmax Battery Equipments, Xiamen AOT Battery Equipment Technology, Xiamen ACEY New Energy Technology, Xiamen Lith Machine, Shenzhen Hesheng Automation Equipment, Shenzhen Meirui Zhida Technology, Shenzhen Yongxingye Equipment Technology, Dongguan Hongmumian Electronic Technology, 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 Hydraulic Balanced Electric Roller Press Machine 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 Hydraulic Balanced Electric Roller Press Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hydraulic Balanced Electric Roller Press Machine Market, Segmentation by Type:

Sheet Type

Roll-to-Roll Type

Sheet and Roll Dual-Use Type

Global Hydraulic Balanced Electric Roller Press Machine Market, Segmentation by Temperature Control Mode:

Room Temperature Type

Heating Type

Constant Temperature Heating Type

Global Hydraulic Balanced Electric Roller Press Machine Market, Segmentation by Application:

Battery Electrode Preparation

Functional Material Sheet Calendering

Other

Companies Profiled:

Shenzhen Kejing Star Technology

Xiamen TOB New Energy Technology

Xiamen Tmax Battery Equipments

Xiamen AOT Battery Equipment Technology

Xiamen ACEY New Energy Technology

Xiamen Lith Machine

Shenzhen Hesheng Automation Equipment

Shenzhen Meirui Zhida Technology

Shenzhen Yongxingye Equipment Technology

Dongguan Hongmumian Electronic Technology

Hunan Fulichuang Technology

Guangdong Xiaowei New Energy Technology

Lekoc Laboratory Equipment (Beijing)

Key Questions Answered:

1. How big is the global Hydraulic Balanced Electric Roller Press Machine market?
2. What is the demand of the global Hydraulic Balanced Electric Roller Press Machine market?
3. What is the year over year growth of the global Hydraulic Balanced Electric Roller Press Machine market?
4. What is the production and production value of the global Hydraulic Balanced Electric Roller Press Machine market?
5. Who are the key producers in the global Hydraulic Balanced Electric Roller Press Machine market?
6. What are the growth factors driving the market demand?

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