

# Global Automatic Pressure Gelation (APG) Machine 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 Pressure Gelation (APG) Machine market size was valued at US\$ 62.66 million in 2025 and is forecast to a readjusted size of US\$ 155 million by 2032 with a CAGR of 8.0% during review period.

An Automatic Pressure Gelation (APG) Machine is an integrated molding/casting equipment set used to manufacture thermoset resin insulation parts (most commonly epoxy) by mixing + homogenizing/degassing reactive components and then injecting the liquid compound into a heated, pressure-tight mold clamped in a press. During gelation/curing, the process can continuously feed material to compensate shrinkage, followed by demolding and secondary heat treatment (post-curing).

Upstream inputs include resin systems (e.g., epoxy resin + curing agent + fillers + colorants) that are often vacuum pretreated/mixed to minimize bubbles, and machine subsystems such as vacuum mixing/degassing, metering/dosing pumps, heated molds, clamping/hydraulic press, and controls. The APG mold itself typically requires high accuracy to vent air during injection while still sealing under pressure.

Downstream users are manufacturers of medium-/high-voltage electrical insulation components who need repeatable, high-throughput production?typical products include insulators, switchgear parts, instrument transformers, bushings, GIS parts, transformers and cable accessories. Some suppliers also describe fully automated APG lines (e.g., robotics) to support industrial-scale production.

In 2025, global sales of Automatic Pressure Gelation (APG) Machine reached

approximately 923 units, with an average global market price of around US\$ 66 K/unit. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 25% to 40%.

Ongoing grid expansion and distribution upgrades, renewable integration, and electrification across industry and transport are pushing medium- and high-voltage equipment toward compact designs, high reliability, and consistent mass-production quality. As capacity grows for epoxy cast components such as embedded poles and busbar supports, APG is often prioritized for scaled manufacturing thanks to fast curing and better controllability of void- and shrinkage-related defects, which in turn drives new installations and upgrades of automatic pressure gelation equipment.

On the supply side, competition is shifting from standalone clamping machines to turnkey line capability, integrating vacuum mixing and degassing, metering and feeding, closed-loop control of mold temperature and pressure, automated loading and unloading, and in-line traceability. End users increasingly value robustness against formulation swings, filler-content variation, and complex molds, as well as long-term stability and ease of maintenance.

Overall, this is a niche, highly customized equipment market with strong project-based characteristics, where delivery schedules and acceptance criteria are tightly coupled to the customer's process. Growth is primarily tied to grid investment cycles and equipment replacement, and is further supported by tightening environmental and safety requirements and the adoption of low-volatility, halogen-free material systems. Process know-how and service capability are becoming key differentiators.

This report is a detailed and comprehensive analysis for global Automatic Pressure Gelation (APG) Machine 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 Pressure Gelation (APG) Machine market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Automatic Pressure Gelation (APG) Machine market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Automatic Pressure Gelation (APG) Machine market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Automatic Pressure Gelation (APG) Machine market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K 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 Pressure Gelation (APG) Machine

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 Pressure Gelation (APG) Machine 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 HEDRICH GROUP, H?BERS, Vishwam Engineers, Jiangshan Huao Electricity Technology, Jiangxi Yibo Automation Equipment, Pingxiang Volmet, Xiamen INSVAC Intelligent Equipment, Top Electric, etc.

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

### **Market Segmentation**

Automatic Pressure Gelation (APG) Machine 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

Epoxy APG System

Polyurethane APG System

Polyester APG System

#### Market segment by Pressure

Atmospheric APG Casting

Vacuum Pressure Gelation

Other

#### Market segment by Automation Level

Semi-Automatic

Fully Automatic

#### Market segment by Application

Electrical and Electronic Industry

Power Industry

Other

## Major players covered

HEDRICH GROUP

H?BERS

Vishwam Engineers

Jiangshan Huao Electricity Technology

Jiangxi Yibo Automation Equipment

Pingxiang Volmet

Xiamen INSVAC Intelligent Equipment

Top Electric

## 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 Pressure Gelation (APG) Machine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automatic Pressure Gelation (APG)

Machine, with price, sales quantity, revenue, and global market share of Automatic Pressure Gelation (APG) Machine from 2021 to 2026.

Chapter 3, the Automatic Pressure Gelation (APG) Machine competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automatic Pressure Gelation (APG) Machine 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 Pressure Gelation (APG) Machine 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 Pressure Gelation (APG) Machine.

Chapter 14 and 15, to describe Automatic Pressure Gelation (APG) Machine sales channel, distributors, customers, research findings and conclusion.

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