

Blow Molding Machines – A Global Market Overview

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Abstracts

Blow Molding Machines Market Trends and Outlook

A Blow Molding Machine is an equipment used in manufacturing large quantities of molded plastic parts and products methodically. In blow molding, a thermoplastic molten tube known as a 'parison' is inflated or blown into a mold's cavity to create hollow objects. Throughout the process, a parison with closed female mold halves is extruded or 'dropped' and the two parts of the female mold contain the shape of the product. The closing female mold halves compress the parison's bottom hole shut. The final product is obtained when a pressurized gas, often air, blows the heated mixture out against the cavity walls. Plastic pellets or powders serve as the raw material for the blow molding process. Polypropylene (PP), polyvinyl chloride (PVC), high-density polyethylene (HDPE), low-density polyethylene (LDPE) and polyethylene terephthalate (PET) are a few polymers that are frequently utilized.

The global market for Blow Molding Machines is estimated at US\$4.9 billion in 2024 and is likely to log a 2024-2030 CAGR of 4.4% in reaching a projected US\$6.3 billion by 2030.

The worldwide demand for Blow Molding Machines is poised to post a steady growth over the analysis period owing to several reasons, including advantages of bulk production & low labor costs, flexibility of materials & minimal waste generation, increasing demand for plastic packaging, lightweight packaging, increasing focus towards eco-friendly products, government initiatives & regulations, customized packaging solutions & end-users, such as food & beverages, healthcare, cosmetics and automotive having high demand for Blow Molding Machines in manufacturing their products.

Blow Molding Machines Regional Market Analysis

Geographically, Asia-Pacific leads the global market for Blow Molding Machines, which is also anticipated to be the fastest growing. Major reasons for this comprise rising popularity of flexible packaging due to portability, ease of disposal and affordability. In addition, leading companies are strategizing partnerships and acquisitions for expansion of their business ventures in the region due to low manufacturing costs, availability of resources and growing demand for packaged products. South America is expected to be the slowest growing global market for Blow Molding Machines.

Blow Molding Machines Market Analysis by Process Type

Based on process type, Extrusion is the most widely used blow molding technique, accounting for an estimated share of about 45% of the total market. These machines are used in making plastic bottles, containers and drums along with automotive and industrial parts. Growing packaging industry and consumer desire for eco-friendly and lightweight packaging materials and advancements in automation & technology have led to the development of high-speed extrusion machines that produce a large number of products with exceptional accuracy and precision. Because of these factors, extruded products made using these machines are much in demand in various sectors, including packaging, food & beverage, electrical & electronics, pharmaceuticals and consumer goods. However, Injection Blow Molding Machines are anticipated to be the fastest growing in the market for Blow Molding Machines, owing to their ability to make high-quality, complex products, including medical gadgets, automobile parts and electronic enclosures.

Blow Molding Machines Market Analysis by Raw Material

Polyethylene (PE) is estimated to be the most widely used raw material for blow molding. PE is a thermoplastic polymer and largely used in manufacturing plastic components for various sectors, including automotive parts, household consumables, containers, appliances, plastic films, computer components, packaging material, electrical/electronic and industrial components. The consumer goods and food & beverage sectors are among the major end-users of PE-based products due to their strength, stiffness and impact resistance. A cutting-edge blown film plastic extrusion machine that uses PE has also been introduced by a major vendor for a variety of applications, including lamination films, courier bag films, agriculture films and liner bags, among others.

Blow Molding Machines Market Analysis by End-Use Sector

Based on end-use sector, Packaging is estimated to hold the largest share in the global market for Blow Molding Machines and will also post the fastest growth, since plastic packaging is ubiquitous. The shelf-life of a product determines the type of packaging material to be used in the process of making. Consumers choose flexible packaging due to affordability, lightweight and ease of discarding. In addition, several companies are investing in the packaging and manufacturing industries, which has raised the need for Blow Molding Machines to manufacture plastic products in sizes ranging from very small to large. Other contributing factors include increasing industrialization in developing regions encouraging manufacturers to scale-up production of blow molding machines, government initiatives to promote the machinery industry, introduction of new technologies resulting in energy-efficient processes and effective automation for lowering labor costs while maintaining productivity.

Blow Molding Machines Market Report Scope

This global report on Blow Molding Machines analyzes the market based on process type, raw material & end-use sector. In addition to providing profiles of major companies operating in this space, the latest corporate and industrial developments have been covered to offer a clear panorama of how and where the market is progressing.

Key Metrics

Historical Period: 2021-2023

Base Year: 2023

Forecast Period: 2024-2030

Units: Value market in US\$

Companies Mentioned: 20+

Blow Molding Machines Market by Geographic Region

North America (The United States, Canada and Mexico)

Europe (France, Germany, Italy, Russia, Spain, The United Kingdom and Rest of Europe)

Asia-Pacific (China, Japan, India, South Korea and Rest of Asia-Pacific)

South America (Argentina, Brazil and Rest of South America)

Middle East & Africa

Blow Molding Machines Market by Process Type

Extrusion Blow Molding

Injection Blow Molding

Injection Stretch Blow Molding

Blow Molding Machines Market by Raw Material

Polyethylene (PE)

Polyethylene Terephthalate (PET)

Polypropylene (PP)

Polystyrene (PS)

Polyvinyl Chloride (PVC)

Other Raw Materials [Incl. Polycarbonate (PC)]

Blow Molding Machines Market by End-Use Sector

Automotive

Building & Construction

Chemicals

Consumer Goods

Electrical & Electronics

Food & Beverage

Packaging

Personal Care & Cosmetics

Pharmaceuticals

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Polyvinyl Chloride (PVC)

Other Raw Materials [Incl Polycarbonate (PC)]

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Automotive

Building & Construction

Chemicals

Consumer Goods

Electrical & Electronics

Food & Beverage

Packaging

Personal Care & Cosmetics

Pharmaceuticals

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3. Key Global Players

Aoki Technical Laboratory, Inc.

Blow Enterprises

British Plastics Federation

Chen Hsong Holdings Ltd

Chia Ming Machinery Co

Elegance Industries

Golfang Mfg. & Development Co Ltd

Graham Engineering Corp

Jagmohan Pla-Mach Pvt Ltd

Jiangsu Victor Machinery Co Ltd

Jomar Corp

Kautex Maschinenbau GmbH

Kautex Textron GmbH & Co KG

Krones AG

Magic North America, Inc.

Meccanoplastica S.R.L.

Milacron Holdings Corp

Nissei ASB Machine Co Ltd

Parker Plastic Machinery Co Ltd

Polymechplast Machines Ltd

Sidel Group

SMF Maschinenfabrik GmbH

Suma Plastic Machinery Co Ltd

Sumitomo Heavy Industries Ltd

SuZhou Bestar Blow Molding Technology Co Ltd

The Japan Steel Works Ltd

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Polyethylene Terephthalate (PET)

Polypropylene (PP)

Polystyrene (PS)

Polyvinyl Chloride (PVC)

Other Raw Materials [Incl Polycarbonate (PC)]

Global Blow Molding Machines Market Overview by End-Use Sector

Blow Molding Machines End-Use Sector Market Overview by Global Region

Automotive

Building & Construction

Chemicals

Consumer Goods

Electrical & Electronics
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Pharmaceuticals

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