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Single Screw Extruder Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Single Screw Extruder Market was valued at USD 1.2 billion in 2024 and is estimated to grow at a CAGR of 5.4% to reach USD 1.9 billion by 2034, driven by increasing demand for plastic products, technological innovations, and the growing need for efficiency improvements across industries such as food, pharmaceuticals, and manufacturing. Single screw extruders are used to create a variety of plastic products, including pipes, sheets, and films. The surge in plastic use for packaging and construction has further fueled the market demand. Additionally, advancements in automation, temperature control, and equipment design are enhancing the productivity of these machines, making them increasingly attractive to manufacturers.

In the food and pharmaceutical sectors, the rising demand for processed food and advanced drug delivery systems is contributing to the market's growth. Single screw extruders are used to produce snacks, cereals, and controlled-release tablets. The versatility and efficiency of these machines make them well-suited for large-scale production in various industries. Furthermore, the technology is widely used in the manufacturing of rubber products, as the extruders enable high-volume production of components such as hoses and seals.

The single screw extruder market is divided based on the type of extruder, with the two main segments being vertical and horizontal. The horizontal extruder segment, valued at USD 800 million in 2024, is anticipated to grow at a CAGR of 5.6% from 2025 to 2034 due to the scalability of horizontal extruders, which makes them suitable for large-scale production operations across industries such as plastics, food, and rubber. Horizontal extruders are particularly favored for their ability to handle high production efficiently. On the other hand, vertical extruders, known for their compact design, are well-suited for

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smaller production facilities where space optimization is a priority. These extruders provide a more space-efficient solution for operations with limited floor space but still require reliable extrusion processes.

Based on industry usage, the plastics and rubber segment held a 44% share in 2024. This segment is expected to grow at a CAGR of 5.7% between 2025 and 2034. The demand for single screw extruders in this segment is being driven by increasing efforts toward plastic recycling and the rising use of these extruders in the production of recyclable materials and rubber products. Additionally, the food and beverage sector is also significantly expanding the demand for single screw extruders, particularly to produce snacks, cereals, and ready-to-eat meals. As consumer demand for processed and convenience foods rises, the need for efficient, high-volume extruding equipment increases.

United States Single Screw Extruder Market was valued at USD 300 million in 2024. The country’s emphasis on sustainable manufacturing and recycling is a key driver of this growth, as single screw extruders are commonly used to process recycled plastics and rubber materials. Technological innovations and increased automation in manufacturing are expanding the use of these extruders in various sectors, including food, beverage, and pharmaceuticals. Furthermore, the continuous demand for higher quality and more cost-effective products propels the market's growth in these industries.

Key players in the market include American Extrusion International, Bausano & Figli, Extrudex, Graham Engineering, and Milacron, among others. To enhance their market position, companies in the single screw extruder market are focusing on product innovation, particularly through automation and energy efficiency. They are also expanding their offerings with customizable solutions that cater to specific industry needs, such as food and pharmaceuticals. Strategic partnerships with research institutions and other industry leaders are allowing for the development of advanced technologies, while investments in sustainable manufacturing practices are increasing their appeal in markets that prioritize environmental responsibility.

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Contents

CHAPTER 1 METHODOLOGY & SCOPE

1.1 Market scope & definitions
1.2 Base estimates & calculations
1.3 Forecast calculations.
1.4 Data sources
  1.4.1 Primary
  1.4.2 Secondary
    1.4.2.1 Paid sources
    1.4.2.2 Public sources

CHAPTER 2 EXECUTIVE SUMMARY

2.1 Industry synopsis, 2021-2034

CHAPTER 3 INDUSTRY INSIGHTS

3.1 Industry ecosystem analysis
  3.1.1 Factor affecting the value chain
  3.1.2 Profit margin analysis
  3.1.3 Disruptions
  3.1.4 Future outlook
  3.1.5 Manufacturers
  3.1.6 Distributors
3.2 Trump administration tariffs analysis
  3.2.1 Impact on trade
    3.2.1.1 Trade volume disruptions
    3.2.1.2 Retaliatory measures
  3.2.2 Impact on the industry
    3.2.2.1 Supply-side impact (raw materials)
      3.2.2.1.1 Price volatility in key materials
      3.2.2.1.2 Supply chain restructuring
      3.2.2.1.3 Production cost implications
    3.2.2.2 Demand-side impact (selling price)
      3.2.2.2.1 Price transmission to end markets
      3.2.2.2.2 Market share dynamics
      3.2.2.2.3 Consumer response patterns

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3.2.3 Key companies impacted
3.2.4 Strategic industry responses
3.2.4.1 Supply chain reconfiguration
3.2.4.2 Pricing and product strategies
3.2.4.3 Policy engagement
3.2.5 Outlook and future considerations
3.3 Supplier landscape
3.4 Technological Landscape
3.5 Key news & initiatives
3.6 Regulatory landscape
3.7 Impact forces
3.7.1 Growth drivers
3.7.1.1 Rising demand for plastic products
3.7.1.2 Expanding applications in food, pharmaceuticals, and industrial sectors
3.7.2 Industry pitfalls & challenges
3.7.2.1 Competition from twin screw extruders
3.7.2.2 High initial investment in advanced technologies
3.8 Growth potential analysis
3.9 Porter’s analysis
3.10 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

4.1 Introduction
4.2 Company market share analysis
4.3 Competitive positioning matrix
4.4 Strategic outlook matrix

CHAPTER 5 MARKET ESTIMATES & FORECAST, BY TYPE, 2021-2034 (USD BILLION) (THOUSAND UNITS)

5.1 Key trends
5.2 Vertical type
5.3 Horizontal type

CHAPTER 6 MARKET ESTIMATES & FORECAST, BY MODE OF OPERATION, 2021-2034 (USD BILLION) (THOUSAND UNITS)

6.1 Key trends

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6.2 Semi-automatic
6.3 Fully automatic

CHAPTER 7 MARKET ESTIMATES & FORECAST, BY OUTPUT CAPACITY, 2021-2034 (USD BILLION) (THOUSAND UNITS)

7.1 Key trends
7.2 Up to 200 Kg/hr
7.3 200 to 400 Kg/hr
7.4 400 to 600 Kg/hr
7.5 Above 600 Kg/hr

CHAPTER 8 MARKET ESTIMATES & FORECAST, BY APPLICATION, 2021-2034 (USD BILLION) (THOUSAND UNITS)

8.1 Key trends
8.2 Pipe extrusion
8.3 Sheet extrusion
8.4 Profile extrusion
8.5 Others (modified compounding etc.)

CHAPTER 9 MARKET ESTIMATES & FORECAST, BY END USE INDUSTRY, 2021-2034 (USD BILLION) (THOUSAND UNITS)

9.1 Key trends
9.2 Food and beverages
9.3 Plastics and rubber
9.4 Chemical industry
9.5 Pharmaceutical
9.6 Others (minerals and nonwovens industry etc.)

CHAPTER 10 MARKET ESTIMATES & FORECAST, BY DISTRIBUTION CHANNEL, 2021-2034 (USD BILLION) (THOUSAND UNITS)

10.1 Key trends
10.2 Direct sales
10.3 Indirect sales

CHAPTER 11 MARKET ESTIMATES & FORECAST, BY REGION, 2021-2034 (USD

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BILLION) (THOUSAND UNITS)

11.1 Key trends
11.2 North America
  11.2.1 U.S.
  11.2.2 Canada
11.3 Europe
  11.3.1 UK
  11.3.2 Germany
  11.3.3 France
  11.3.4 Italy
  11.3.5 Spain
  11.3.6 Russia
11.4 Asia Pacific
  11.4.1 China
  11.4.2 India
  11.4.3 Japan
  11.4.4 South Korea
  11.4.5 Australia
11.5 Latin America
  11.5.1 Brazil
  11.5.2 Mexico
11.6 MEA
  11.6.1 UAE
  11.6.2 Saudi Arabia
  11.6.3 South Africa

CHAPTER 12 COMPANY PROFILES

12.1 American Extrusion International
12.2 B&P Littleford
12.3 Bausano & Figli
12.4 BC Extrusion
12.5 Boston Matthews
12.6 Breyer
12.7 Buhler
12.8 Coperion
12.9 CPM
12.10 Extrudex

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12.11 Graham Engineering
12.12 HMG Extrusion Equipment
12.13 Milacron
12.14 R&B Plastics Machinery
12.15 USEON

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