

Pneumatic Conveying System Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application

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Abstracts

Pneumatic Conveying System Market Summary

Introduction to the Pneumatic Conveying System Industry

Pneumatic Conveying Systems use air or gas to transport bulk materials like powders and granules through pipelines, offering efficient, dust-free handling in industries such as plastics, rubber, chemicals, food, and minerals. The market is small and fragmented, with intense competition in low-end applications and only a few players like Coperion and Zeppelin dominating high-end petrochemical projects. Shanghai Bloom Technology, with USD 161 million in 2024 revenue, serves major clients like Sinopec and PetroChina. The industry is polarized, with SMEs competing in less automated segments and global leaders focusing on advanced systems. Innovations target automation, energy efficiency, and reliability. Challenges include high installation costs, technical complexity, and competition from mechanical conveyors, yet demand from petrochemicals and recycling drives growth.

Market Size and Growth Forecast

The global Pneumatic Conveying System market is projected to reach USD 35–40 billion by 2025, with an estimated compound annual growth rate (CAGR) of 5% to 6% through 2030. Growth is driven by petrochemical expansion, plastics recycling, and food processing advancements.

Regional Analysis

North America expects a growth rate of 4%–6%. The U.S. leads in chemicals, with Canada focusing on minerals.

Asia Pacific anticipates a growth rate of 6%–8%. China's Shanghai Bloom Technology and Shanghai KSD drive petrochemical demand. India's plastics sector contributes.

Europe projects a growth rate of 4%–6%. Germany's Coperion focuses on plastics recycling, with sustainability shaping demand.

Middle East and Africa expect a growth rate of 4%–6%. Saudi Arabia's petrochemicals drive demand.

South America anticipates a growth rate of 4%–6%. Brazil's food processing supports growth.

Application Analysis

Plastics & Plastics Recycling: Projected at 6%–8%, plastics, led by Coperion, dominate with polyolefin handling. Trends include recycling systems.

Rubber: Expected at 5%–7%, rubber, with Zeppelin, grows with tire production. Trends focus on energy efficiency.

Chemicals: Anticipated at 5%–7%, chemicals, led by Shanghai Bloom Technology, grow with resin handling. Trends include automation.

Food: Projected at 4%–6%, food, with Shanghai KSD, grows with powder handling. Trends focus on hygiene.

Minerals: Expected at 4%–6%, minerals, led by Coperion, grow with cement handling. Trends include dust control.

Others: Anticipated at 3%–5%, niche uses like pharmaceuticals grow with Zeppelin's offerings.

Key Market Players

Coperion: A German firm, Coperion develops systems for plastics.

Zeppelin: A German company, Zeppelin focuses on chemicals.

Shanghai KSD: A Chinese firm, Shanghai KSD supplies food systems.

Shanghai Bloom Technology: A Chinese company, Shanghai develops petrochemical systems.

Porter's Five Forces Analysis

Threat of New Entrants: Moderate. Technical barriers deter entry, but firms like Shanghai Bloom Technology enter with expertise.

Threat of Substitutes: Moderate. Mechanical conveyors compete, but Coperion's systems retain an edge in dust-free handling.

Bargaining Power of Buyers: High. Petrochemical firms switch suppliers, pressuring Zeppelin for pricing.

Bargaining Power of Suppliers: Moderate. Component suppliers influence costs, but Coperion's scale reduces dependency.

Competitive Rivalry: High. Coperion and Shanghai Bloom Technology compete on automation and reliability.

Market Opportunities and Challenges

Opportunities

Petrochemical Growth: Resin handling boosts Shanghai Bloom Technology's sales.

Plastics Recycling: Circular economy drives Coperion's growth.

Food Processing: Hygiene standards favor Shanghai KSD's expansion.

Emerging Markets: India's chemicals support Zeppelin's growth.

Automation: Smart systems boost Coperion's adoption.

Energy Efficiency: Low-power designs enhance Shanghai Bloom Technology's share.

Mineral Processing: Cement handling favors Zeppelin's growth.

Challenges

High Costs: Installation costs pressure Coperion's margins.

Technical Complexity: System design affects Zeppelin's operations.

Substitute Conveyors: Mechanical systems threaten Shanghai Bloom Technology's share.

Market Fragmentation: SMEs slow Shanghai KSD's expansion.

Supply Chain Issues: Component delays disrupt Coperion's delivery.

Regulatory Pressures: Safety standards challenge Zeppelin's innovation.

Economic Volatility: Petrochemical demand affects Shanghai Bloom Technology's growth.

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