

Pneumatic Conveying Systems Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented by Type (Dilute Phase, Dense Phase, and Others), End-User (Chemical, Pharmaceutical, Food and Beverages, and Others), By Region, Competition 2018-2028.

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Abstracts

Global Pneumatic Conveying Systems Market was valued at USD 9.92 Billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 5.29% through 2028. Factors such as rapid industrialization in emerging economies and growing demand for industrial material handling equipment are expected to drive the market across the world.

Key Market Drivers

Increasing Industrialization

The increasing pace of industrialization across the globe is poised to drive the growth of the Global Pneumatic Conveying Systems Market in significant ways. As nations continue to develop and expand their manufacturing and processing capabilities, the demand for efficient and reliable material handling systems such as pneumatic conveying systems is on the rise. This phenomenon can be attributed to several key factors. First and foremost, industrialization inherently leads to a surge in production activities across various sectors, including pharmaceuticals, food and beverage, chemicals, cement, and many more. With higher production volumes comes the need for a streamlined and efficient means of transporting bulk materials such as powders, granules, and other dry or semi-dry substances. Pneumatic conveying systems offer a

versatile solution that can seamlessly integrate into these burgeoning industrial landscapes, enabling the smooth flow of materials within manufacturing processes.

Moreover, industrialization often goes hand in hand with the pursuit of automation and increased efficiency. As industries seek to optimize their operations, reduce labor costs, and enhance overall productivity, pneumatic conveying systems play a pivotal role. These systems can be easily integrated into automated manufacturing processes, ensuring a continuous and precise transfer of materials. This not only reduces the risk of human error but also improves the overall efficiency of production lines. In industries where hygiene and safety standards are paramount, such as the food and pharmaceutical sectors, pneumatic conveying systems are particularly favored. These systems offer a closed and hygienic method of material handling, crucial for compliance with stringent regulatory requirements. As industrialization continues to drive the expansion of these sectors, the demand for such systems as part of a holistic approach to safety and quality control is set to grow.

Furthermore, the global shift towards sustainability and environmental consciousness has spurred interest in pneumatic conveying systems. These systems can effectively minimize dust emissions and reduce energy consumption compared to traditional material handling methods, aligning with the goals of reducing the environmental footprint of industrial processes. In conclusion, the increasing industrialization worldwide is a powerful driver behind the growth of the Global Pneumatic Conveying Systems Market. The need for efficient material handling, automation, compliance with industry standards, and sustainability are all factors that contribute to the market's expansion as industries recognize the essential role played by pneumatic conveying systems in modern manufacturing and processing operations.

Focus on Automation

The increasing emphasis on automation is a significant driver poised to propel the growth of the Global Pneumatic Conveying Systems Market. Automation has become a pivotal strategy for industries across the spectrum to enhance efficiency, reduce operational costs, and ensure consistent product quality. Pneumatic conveying systems, with their compatibility for seamless integration into automated processes, are playing a central role in achieving these goals. Automation entails the deployment of advanced technologies and robotics to perform tasks traditionally carried out by human operators. In manufacturing and material handling operations, the adoption of automation not only improves precision but also enhances speed and reliability. Pneumatic conveying systems are well-suited for automation due to their ability to transport bulk materials

continuously and precisely, reducing the need for manual intervention.

One of the key advantages of integrating pneumatic conveying systems into automated processes is the reduction of labor costs. These systems can operate 24/7 without the need for breaks, ensuring a consistent and uninterrupted flow of materials. This not only increases productivity but also minimizes the reliance on human operators, reducing labor expenses and the potential for human errors.

Moreover, automation allows for real-time monitoring and control of pneumatic conveying systems. Sensors and advanced control systems can be employed to monitor parameters such as material flow rates, pressure levels, and system performance. This data can be used to make immediate adjustments, optimizing the efficiency of the conveying process and minimizing downtime. Industries that rely on precise and repeatable material handling processes, such as the pharmaceutical and food industries, are increasingly turning to automation through pneumatic conveying systems. These systems ensure that ingredients are accurately measured and transported to the exact location required in the production line, guaranteeing product consistency and quality.

Furthermore, automation enhances the flexibility of pneumatic conveying systems. They can be easily programmed to handle different materials and adapt to changing production requirements, making them versatile tools for modern manufacturing facilities. In conclusion, the focus on automation is a driving force behind the growth of the Global Pneumatic Conveying Systems Market. As industries seek to optimize their operations, improve efficiency, reduce labor costs, and enhance quality control, the integration of pneumatic conveying systems into automated processes becomes increasingly essential. This trend is expected to continue as companies across various sectors recognize the benefits of automation in material handling and production.

Stringent Hygiene and Safety Standards

Stringent hygiene and safety standards are poised to drive the Global Pneumatic Conveying Systems Market significantly. These standards, which are especially prevalent in industries like food, pharmaceuticals, chemicals, and healthcare, demand the utmost care and precision in material handling processes. Pneumatic conveying systems, with their inherent qualities, have emerged as a crucial solution to meet these exacting requirements. In the food and pharmaceutical industries, where consumable products are manufactured, maintaining the highest levels of hygiene is paramount. Any contamination or compromise in the quality of materials can have serious health

implications for consumers. Pneumatic conveying systems are favored because they provide a closed and sealed method of transporting bulk materials. This eliminates the risk of external contaminants entering the process, ensuring that products remain pure and uncontaminated throughout production. Consequently, these systems are indispensable for companies striving to comply with strict food safety regulations such as HACCP (Hazard Analysis and Critical Control Points) and cGMP (current Good Manufacturing Practices).

Similarly, in the pharmaceutical sector, adherence to stringent Good Manufacturing Practices (GMP) is essential to guarantee the safety and efficacy of medications. Pneumatic conveying systems are ideal for handling pharmaceutical powders and ingredients while maintaining the highest levels of cleanliness and containment. Their ability to prevent cross-contamination between different materials and provide a dust-free environment is crucial for ensuring the quality of pharmaceutical products. Additionally, the chemical industry benefits greatly from the safety features of pneumatic conveying systems. These systems are designed to prevent spillage, leaks, and exposure to hazardous substances, thereby reducing the risk of accidents and chemical exposure for workers. Compliance with safety regulations such as OSHA (Occupational Safety and Health Administration) standards is facilitated by the use of pneumatic conveying systems in chemical manufacturing processes.

Moreover, the healthcare sector, which relies on the precise handling of sensitive and often hazardous materials, relies on pneumatic conveying systems to maintain a sterile environment, minimize contamination risks, and protect both patients and healthcare professionals. In conclusion, stringent hygiene and safety standards are a driving force behind the growth of the Global Pneumatic Conveying Systems Market, particularly in industries where the quality and safety of products are non-negotiable. These systems not only enable compliance with regulatory requirements but also ensure the protection of consumers, workers, and the environment by providing a clean, sealed, and safe method of material handling. As industries continue to prioritize safety and quality, the demand for pneumatic conveying systems is expected to surge.

Key Market Challenges

High Initial Costs

High initial costs represent a significant challenge that has the potential to impede the growth of the Global Pneumatic Conveying Systems Market. While pneumatic conveying systems offer numerous benefits in terms of material handling efficiency,

their substantial upfront expenses can be a major deterrent for potential users, particularly smaller businesses with limited budgets. **Capital Investment:** The installation of pneumatic conveying systems typically involves a substantial capital outlay. This includes the costs associated with purchasing the equipment, engineering and design, system customization, installation, and integration into existing production facilities. The high initial investment required can be a significant barrier to entry for many companies.

Return on Investment (ROI) Concerns: The ROI for pneumatic conveying systems may take some time to materialize. Businesses may hesitate to make such a significant investment, especially when they have alternative, lower-cost material handling methods available. The longer the payback period, the less attractive these systems may appear. **Budget Constraints:** Smaller companies and businesses with limited financial resources may find it challenging to allocate a significant portion of their budget to acquire pneumatic conveying systems. High initial costs may lead them to explore more cost-effective alternatives, even if those alternatives are less efficient.

Risk Aversion: High initial costs represent a higher level of financial risk. Businesses may be reluctant to invest in pneumatic conveying systems, fearing that they may not achieve the anticipated cost savings or productivity improvements, especially if their production volumes are not large enough to justify the investment. **Complexity of Cost Estimation:** Estimating the total cost of ownership for pneumatic conveying systems can be complex. Costs related to engineering, customization, installation, maintenance, and energy consumption must all be considered. The potential for cost overruns and unexpected expenses can make businesses wary of these systems. **Alternative Material Handling Methods:** Some industries may already have established material handling methods in place, which may have lower initial costs. Switching to pneumatic conveying systems may not be financially justifiable unless there are clear efficiency gains or regulatory compliance requirements.

Long-term Commitment: Investing in pneumatic conveying systems represents a long-term commitment. Businesses need to be confident in their growth prospects and production requirements to justify such an investment. Economic uncertainties or market fluctuations can make this commitment more challenging. In conclusion, high initial costs can indeed hamper the adoption and growth of the Global Pneumatic Conveying Systems Market. While these systems offer advantages in terms of material handling efficiency, businesses must carefully assess their financial capacity, ROI expectations, and long-term commitment before deciding to invest in them. Efforts to reduce initial costs, such as standardization, financing options, and government incentives, may help mitigate this challenge and encourage wider adoption of pneumatic

conveying systems across industries.

Complex Design and Installation

The complex design and installation requirements associated with pneumatic conveying systems can indeed pose significant challenges that may hinder the growth of the Global Pneumatic Conveying Systems Market. These complexities can deter potential users and increase the overall cost and time investment required for adoption, which in turn may impact market expansion. Customization Needs: Pneumatic conveying systems often require customization to suit specific material handling requirements. The diverse range of materials, particle sizes, distances, and process conditions encountered in different industries necessitates tailored solutions. The need for customization can lead to longer lead times and higher costs, potentially deterring some businesses from adopting these systems.

Engineering Expertise: Designing a pneumatic conveying system that optimally handles a particular material and meets the unique needs of a production process requires specialized engineering expertise. This can be a barrier for industries lacking in-house engineering capabilities, as they may need to engage external engineering services, which can be costly. Installation Complexity: Installing a pneumatic conveying system involves integrating it into an existing production facility. This process often requires structural modifications, such as the installation of pipelines, hoppers, and support structures, as well as electrical and control system integration. The complexity of installation can lead to delays and increased costs.

Space Constraints: Some industries, particularly those with limited available floor space, may find it challenging to accommodate the physical footprint of pneumatic conveying systems. Designing a layout that optimizes space while ensuring efficient material flow can be intricate and may limit adoption. Operational Integration: Integrating a pneumatic conveying system into existing production processes requires careful planning to avoid disruptions and ensure seamless operation. This integration can be a complex undertaking, requiring coordination with other equipment and systems, which may extend the downtime during installation.

System Compatibility: Ensuring compatibility between a pneumatic conveying system and other equipment within a production line is crucial. Incompatibilities can lead to inefficiencies, breakdowns, and costly retrofitting efforts. This concern may lead some businesses to opt for alternative material handling methods. Maintenance Considerations: The complexity of the system design can also affect maintenance

tasks. Accessing and servicing various components can be challenging, potentially leading to longer downtime during maintenance and repairs.

Operator Training: Operating and maintaining pneumatic conveying systems effectively requires trained personnel. The need for training programs to ensure that operators and maintenance staff are proficient in system operation and upkeep adds an additional layer of complexity. In summary, the complex design and installation requirements associated with pneumatic conveying systems can act as barriers to adoption and market growth. While these systems offer benefits in terms of material handling efficiency, companies must carefully assess their specific needs, available resources, and the complexities involved in system customization and integration before deciding to invest in pneumatic conveying technology. Addressing these challenges through improved system design and ease of installation may help mitigate their impact on the market.

Maintenance and Downtime

Maintenance and downtime issues have the potential to hinder the growth of the Global Pneumatic Conveying Systems Market. While these systems offer numerous advantages in material handling, they also come with specific challenges related to maintenance and downtime that can deter potential users and affect market expansion.

Cost of Maintenance: Maintenance, whether scheduled or unscheduled, incurs costs. Regular maintenance checks, replacement of worn-out components, and repairs all require financial resources. For some businesses, particularly smaller ones with limited budgets, the ongoing cost of maintenance can be a significant concern, potentially deterring them from investing in pneumatic conveying systems.

Downtime Impact: Unscheduled downtime, especially in industries where continuous production is critical, can have severe consequences. When a pneumatic conveying system experiences a breakdown, it can disrupt the entire production process, leading to production delays, reduced output, and increased costs. Businesses may hesitate to adopt these systems if they perceive them as unreliable or prone to downtime.

Skilled Labor Requirement: Proper maintenance and troubleshooting of pneumatic conveying systems require specialized knowledge and skills. Finding and retaining qualified maintenance personnel can be challenging for some businesses. The shortage of skilled workers in this field can exacerbate downtime issues.

Complexity of Maintenance: Pneumatic conveying systems can be complex, with numerous components and subsystems. Maintenance and repairs can be time-

consuming and complicated, especially if the system is customized for specific material handling needs. This complexity can lead to extended downtime during maintenance activities. **Production Interruption:** Even scheduled maintenance can result in production interruptions. While preventive maintenance is essential to ensure system reliability, the need to take a system offline for servicing can impact productivity and, in some cases, lead to customer delivery delays.

Dependency on Spare Parts: The availability of spare parts is crucial for timely maintenance and repairs. If spare parts are not readily available or if lead times are long, businesses may face extended downtime waiting for critical components.

Technological Advancements: As pneumatic conveying systems evolve, older systems may become obsolete or less efficient. This can pose challenges for businesses that need to upgrade or replace their existing systems to remain competitive, incurring downtime and costs.

Regulatory Compliance: Industries with strict regulatory requirements, such as pharmaceuticals and food processing, must ensure that maintenance activities do not compromise product quality or safety. Complying with regulatory standards can add complexity to maintenance processes and may lead to longer downtime. In summary, maintenance and downtime issues can indeed hamper the Global Pneumatic Conveying Systems Market. While these systems offer efficiency and reliability benefits, businesses must carefully consider the associated maintenance costs, downtime risks, and the availability of skilled personnel before making the decision to invest in and adopt pneumatic conveying systems. Addressing these challenges through improved system design, predictive maintenance technologies, and readily available support services will be crucial for market growth.

Key Market Trends

Rising Demand for Hygienic Solutions

The rising demand for hygienic solutions is a compelling driver that is expected to propel the Global Pneumatic Conveying Systems Market significantly. Across various industries such as food processing, pharmaceuticals, and healthcare, maintaining strict hygiene standards is of paramount importance to ensure the safety and quality of products. Pneumatic conveying systems have emerged as preferred choices due to their ability to meet stringent cleanliness and contamination control requirements.

In the food industry, where consumable products are manufactured, adhering to food

safety regulations like HACCP (Hazard Analysis and Critical Control Points) and cGMP (current Good Manufacturing Practices) is imperative. Pneumatic conveying systems, with their closed and sealed material handling process, prevent external contaminants from entering the production line, safeguarding product integrity. Similarly, in the pharmaceutical sector, where medications are produced, adhering to rigorous Good Manufacturing Practices (GMP) standards is essential to ensure the efficacy and safety of pharmaceuticals. Pneumatic conveying systems offer contamination-free material handling, making them invaluable in pharmaceutical manufacturing.

The healthcare industry also relies on the hygienic handling of materials for applications like medical device manufacturing and sterile product handling. Pneumatic conveying systems are adopted to maintain the highest levels of cleanliness and compliance with regulatory standards. The increasing awareness of hygiene, coupled with stringent regulatory requirements, is driving the demand for pneumatic conveying systems that can provide contamination-free and hygienic material handling solutions. As these industries continue to prioritize cleanliness and product safety, the Global Pneumatic Conveying Systems Market is expected to witness robust growth, catering to the evolving needs of hygiene-conscious sectors.

Integration with Industry 4.0

The integration of pneumatic conveying systems with Industry 4.0 technologies is a potent force driving the growth of the Global Pneumatic Conveying Systems Market. Industry 4.0 represents a paradigm shift in manufacturing, characterized by the convergence of digital technologies, data analytics, automation, and connectivity. This integration offers a multitude of benefits that enhance the efficiency, reliability, and adaptability of pneumatic conveying systems. Real-time monitoring, facilitated by sensors and Internet of Things (IoT) technology, allows operators to gain immediate insights into system performance, leading to faster decision-making and issue resolution. Predictive maintenance, enabled by data analytics, reduces downtime by predicting when maintenance is needed before breakdowns occur, resulting in improved system uptime and cost savings.

Industry 4.0-driven pneumatic conveying systems optimize operations through advanced control algorithms and artificial intelligence, resulting in energy efficiency, reduced material waste, and enhanced overall productivity. Remote monitoring and control capabilities offer flexibility and responsiveness in managing material handling processes from anywhere. Data analytics also fuels continuous improvement by identifying trends and patterns in material handling, leading to data-driven decisions and

increased operational efficiency. The integration with Enterprise Resource Planning (ERP) systems enhances overall production planning and inventory management.

In conclusion, the integration of pneumatic conveying systems with Industry 4.0 technologies enhances their capabilities, making them crucial components of modern manufacturing environments. As industries seek to optimize material handling processes and embrace digital transformation, this trend is poised to drive substantial growth in the Global Pneumatic Conveying Systems Market.

Segmental Insights

End-User Insights

The Chemical segment holds a significant market share in the Global Pneumatic Conveying Systems Market. The chemical sector is one of the prominent segments that utilize pneumatic conveying systems to transfer chemicals through an enclosed conveying pipeline from one or more sources to one or more destinations. Air and pressure difference are used inside the pipeline as a transferring medium.

The sector primarily uses dilute phase pneumatic conveying systems that maintain an air velocity of around 3200 to 8000 feet per minute and a positive or negative pressure of approximately 5 to 12 pound per square in gauge (PSIG) or 4 to 12 Hg for continuous of chemicals within a facility.

In 2018, world chemical sales grew by nearly 5.2%, as compared to 2008. With chemical sales of around EUR 3.34 trillion in 2018, it is expected to have increase sales on account of the growing demand for chemicals in various sectors like fertilizer and pharmaceutical.

Regarding capital expenditure, the sector has spent EUR 193.1 billion in 2018, which grew by nearly 5.9%, as compared to 2008. China is one of the major countries that has contributed to almost 45% of the global investment in 2018.

Regional Insights

Asia Pacific plays a significant role in the global Pneumatic Conveying Systems market, Asia-Pacific is one of the prominent regions that have a large number of industries in various sectors. China is one of the major countries in the region, which is considered to be the largest manufacturing hub in the world, contributing nearly 28.4% of global

manufacturing output.

Chemical, pharmaceutical, plastic are a few significant segments in the region that use pneumatic conveying systems to flow its materials from one location to the other.

China is the largest chemical producer in the world. From contributing 23.6% of the global chemical sales in 2009 to nearly 35.8% in 2018, China has expanded its chemical business exponentially during the last nine years, which supported the pneumatic conveyor systems to grow in the market.

China, along with other countries of the region, has sold nearly EUR 1.9 trillion of the chemical during 2018. It is expected to increase in sales during the upcoming years because of the increasing demand for compounds primarily in plastic and pharmaceutical companies.

Key Market Players

Atlas Copco AB

Coperion GmbH

Cyclonaire Corporation

Palamatic Process

Dynamic Air Inc.

Flexicon Corporation

Gericke AG

DongYang P & F

Nilfisk Group

Schenck Process Holding GmbH

Report Scope:

In this report, the Global Pneumatic Conveying Systems Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Global Pneumatic Conveying Systems Market, By Type:

Dilute Phase

Dense Phase

Others

Global Pneumatic Conveying Systems Market, By End User:

Chemical

Pharmaceutical

Food and Beverage

Others

Global Pneumatic Conveying Systems Market, By Region:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

Japan

South Korea

Indonesia

Europe

Germany

United Kingdom

France

Russia

Spain

South America

Brazil

Argentina

Middle East & Africa

Saudi Arabia

South Africa

Egypt

UAE

Israel

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global

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Pneumatic Conveying Systems Market.

Available Customizations:

Global Pneumatic Conveying Systems Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
- 1.3. Markets Covered
- 1.4. Years Considered for Study
- 1.5. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

4. VOICE OF CUSTOMERS

5. GLOBAL PNEUMATIC CONVEYING SYSTEMS MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Type (Dilute Phase, Dense Phase, and Others)
 - 5.2.2. By End User (Chemical, Pharmaceutical, Food and Beverages, and Others)
 - 5.2.3. By Region
- 5.3. By Company (2022)
- 5.4. Market Map

6. NORTH AMERICA PNEUMATIC CONVEYING SYSTEMS MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Type
 - 6.2.2. By End User
 - 6.2.3. By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States Pneumatic Conveying Systems Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Type
 - 6.3.1.2.2. By End User
 - 6.3.2. Canada Pneumatic Conveying Systems Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Type
 - 6.3.2.2.2. By End User
 - 6.3.3. Mexico Pneumatic Conveying Systems Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Type
 - 6.3.3.2.2. By End User

7. ASIA-PACIFIC PNEUMATIC CONVEYING SYSTEMS MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Type
 - 7.2.2. By End User
 - 7.2.3. By Country
- 7.3. Asia-Pacific: Country Analysis
 - 7.3.1. China Pneumatic Conveying Systems Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast

- 7.3.1.2.1. By Type
- 7.3.1.2.2. By End User
- 7.3.2. India Pneumatic Conveying Systems Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Type
 - 7.3.2.2.2. By End User
- 7.3.3. Japan Pneumatic Conveying Systems Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Type
 - 7.3.3.2.2. By End User
- 7.3.4. South Korea Pneumatic Conveying Systems Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Type
 - 7.3.4.2.2. By End User
- 7.3.5. Indonesia Pneumatic Conveying Systems Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Type
 - 7.3.5.2.2. By End User

8. EUROPE PNEUMATIC CONVEYING SYSTEMS MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Type
 - 8.2.2. By End User
 - 8.2.3. By Country
- 8.3. Europe: Country Analysis
 - 8.3.1. Germany Pneumatic Conveying Systems Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value

- 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Type
 - 8.3.1.2.2. By End User
- 8.3.2. United Kingdom Pneumatic Conveying Systems Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Type
 - 8.3.2.2.2. By End User
- 8.3.3. France Pneumatic Conveying Systems Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Type
 - 8.3.3.2.2. By End User
- 8.3.4. Russia Pneumatic Conveying Systems Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Type
 - 8.3.4.2.2. By End User
- 8.3.5. Spain Pneumatic Conveying Systems Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Type
 - 8.3.5.2.2. By End User

9. SOUTH AMERICA PNEUMATIC CONVEYING SYSTEMS MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Type
 - 9.2.2. By End User
 - 9.2.3. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Pneumatic Conveying Systems Market Outlook
 - 9.3.1.1. Market Size & Forecast

- 9.3.1.1.1. By Value
- 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Type
 - 9.3.1.2.2. By End User
- 9.3.2. Argentina Pneumatic Conveying Systems Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Type
 - 9.3.2.2.2. By End User

10. MIDDLE EAST & AFRICA PNEUMATIC CONVEYING SYSTEMS MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Type
 - 10.2.2. By End User
 - 10.2.3. By Country
- 10.3. Middle East & Africa: Country Analysis
 - 10.3.1. Saudi Arabia Pneumatic Conveying Systems Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Type
 - 10.3.1.2.2. By End User
 - 10.3.2. South Africa Pneumatic Conveying Systems Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Type
 - 10.3.2.2.2. By End User
 - 10.3.3. UAE Pneumatic Conveying Systems Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Type
 - 10.3.3.2.2. By End User

10.3.4. Israel Pneumatic Conveying Systems Market Outlook

10.3.4.1. Market Size & Forecast

10.3.4.1.1. By Value

10.3.4.2. Market Share & Forecast

10.3.4.2.1. By Type

10.3.4.2.2. By End User

10.3.5. Egypt Pneumatic Conveying Systems Market Outlook

10.3.5.1. Market Size & Forecast

10.3.5.1.1. By Value

10.3.5.2. Market Share & Forecast

10.3.5.2.1. By Type

10.3.5.2.2. By End User

11. MARKET DYNAMICS

11.1. Drivers

11.2. Challenge

12. MARKET TRENDS & DEVELOPMENTS

13. COMPANY PROFILES

13.1. Atlas Copco AB

13.1.1. Business Overview

13.1.2. Key Revenue and Financials

13.1.3. Recent Developments

13.1.4. Key Personnel

13.1.5. Key Product/Services

13.2. Coperion GmbH

13.2.1. Business Overview

13.2.2. Key Revenue and Financials

13.2.3. Recent Developments

13.2.4. Key Personnel

13.2.5. Key Product/Services

13.3. Cyclonaire Corporation

13.3.1. Business Overview

13.3.2. Key Revenue and Financials

13.3.3. Recent Developments

- 13.3.4. Key Personnel
- 13.3.5. Key Product/Services
- 13.4. Palamatic Process
 - 13.4.1. Business Overview
 - 13.4.2. Key Revenue and Financials
 - 13.4.3. Recent Developments
 - 13.4.4. Key Personnel
 - 13.4.5. Key Product/Services
- 13.5. Dynamic Air Inc.
 - 13.5.1. Business Overview
 - 13.5.2. Key Revenue and Financials
 - 13.5.3. Recent Developments
 - 13.5.4. Key Personnel
 - 13.5.5. Key Product/Services
- 13.6. Flexicon Corporation
 - 13.6.1. Business Overview
 - 13.6.2. Key Revenue and Financials
 - 13.6.3. Recent Developments
 - 13.6.4. Key Personnel
 - 13.6.5. Key Product/Services
- 13.7. Gericke AG
 - 13.7.1. Business Overview
 - 13.7.2. Key Revenue and Financials
 - 13.7.3. Recent Developments
 - 13.7.4. Key Personnel
 - 13.7.5. Key Product/Services
- 13.8. DongYang P & F
 - 13.8.1. Business Overview
 - 13.8.2. Key Revenue and Financials
 - 13.8.3. Recent Developments
 - 13.8.4. Key Personnel
 - 13.8.5. Key Product/Services
- 13.9. Nilfisk Group
 - 13.9.1. Business Overview
 - 13.9.2. Key Revenue and Financials
 - 13.9.3. Recent Developments
 - 13.9.4. Key Personnel
 - 13.9.5. Key Product/Services

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