

Large Diameter Pipe Market: Trends, Opportunities and Competitive Analysis to 2030

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Abstracts

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Large Diameter Pipe Market Trends and Forecast

The future of the large diameter pipe market looks good with opportunities in the potable water pipe, wastewater pipe, oil and gas pipe, and industrial pipe application segments. The global large diameter pipe market is expected to reach an estimated \$145.4 billion by 2030, and it is forecast to grow at a CAGR of 3.9% from 2024 to 2030. The major growth drivers for this market are increasing investment in water and wastewater management, rise in infrastructure spending, and replacement of aging pipelines.

Lucintel predicts that the demand for plastic pipes is likely to experience the highest growth in the forecast period, supported by growing demand in wastewater and industrial applications. On the basis of its comprehensive research, Lucintel forecasts that wastewater and potable water pipes are expected to show above average growth during the forecast period.

Within the large diameter pipe market, the wastewater pipe segment is expected to remain the largest application segment. The growth of residential and commercial construction and the boom in infrastructure development in developing economies are expected to spur growth for this segment over the forecast period.

Asia Pacific is expected to remain the largest market and it is also projected to have the highest growth over the forecast period due to high growth in construction and infrastructure development, especially in China and India.

Asia Pacific is expected to remain the largest market in Large Diameter Pipe Market

1. United States: Companies like McWane Ductile and AMERICAN SpiralWeld Pipe are expanding production capacities for large diameter pipes to meet infrastructure demands. The government's focus on water infrastructure upgrades, highlighted in the Bipartisan Infrastructure Law, drives market growth.

2. China: Chinese steel manufacturers such as Baosteel and Tianjin Pipe Corporation are investing in large diameter pipe production for water, oil, and gas projects. Government initiatives like the Belt and Road Initiative boost demand for steel pipes in infrastructure development.

3. India: Indian pipe producers like Jindal Saw and Welspun Corp are ramping up production of large diameter pipes to support water supply and irrigation projects. Government schemes like the Jal Jeevan Mission drive market expansion by promoting access to clean water.

4. Germany: German steel companies like Salzgitter AG and Thyssenkrupp Steel Europe specialize in manufacturing large diameter pipes for energy and infrastructure projects. Government funding for renewable energy and transportation infrastructure supports market growth.

5. Brazil: Brazilian steel producers like Usiminas and Gerdau are increasing production of large diameter pipes for oil and gas exploration and water infrastructure projects. Government initiatives promoting investment in energy and water sectors drive demand for steel pipes.

Emerging Trends in Large Diameter Pipe Market

Emerging trends, which have a direct impact on the dynamics of the industry, are the

increasing demand for FRP pipes and multilayer materials and technically advanced pipes t%li%reduce operational time and minimize the risk of pressure resistance, scaling and other deposits caused by substance transmission.

A total of XX figures / charts and XX tables are provided in this XXX-page report t%li%help in your business decisions. Sample figures with some insights are shown below.

Large Diameter Pipe Market by Segment

In this market, wastewater pipes are expected t%li%remain the largest application segment, and the highest growing material type segment is plastic pipes. Growth in various segments of the large diameter pipe market are given below:

The study includes trends and forecast for the large diameter pipe market by application, material type, and region as follows:

Large Diameter Pipe Market by Application (Value \$ Billion from 2018 t%li%2030):

Potable Water Pipes

Wastewater Pipes

Oil and Gas Pipes

Industrial Pipes

Others

Large Diameter Pipe Market by Material (Volume (Million Tons) and Value \$ Billion from 2018 t%li%2030):

Metal Pipes

Plastic Pipes

Concrete Pipes

Others

Large Diameter Pipe Market by Region (Volume (Million Tons) and Value \$ Billion from 2018 to 2030):

North America

Europe

Asia Pacific

Rest of the World

List of Large Diameter Pipe Companies

Companies in the market compete on the basis of product quality offered. Major players in this market focus on expanding their manufacturing facilities, R&D investments, infrastructural development, and leverage integration opportunities across the value chain. With these strategies, large diameter pipe companies cater to increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the large diameter pipe companies profiled in this report include—

Tenaris SA

Chelpipe Group

OAOTMK

Vallourec SA

Welspun Corp. Ltd.

Recent Developments in Large Diameter Pipe Market

1. Demand Growth in Large Diameter Pipes for Infrastructure Projects: Recent

developments in the large diameter pipe market reflect a growing demand for these pipes in various infrastructure projects worldwide. Projects such as water distribution networks, sewage systems, and oil and gas pipelines are driving the demand for large diameter pipes, with notable growth expected in regions like Asia-Pacific and the Middle East.

2. Introduction of Advanced Materials for Large Diameter Pipes: Manufacturers are introducing large diameter pipes made from advanced materials to meet the increasing demands for durability, corrosion resistance, and longevity. Materials such as high-density polyethylene (HDPE), reinforced concrete, and fiberglass reinforced plastic (FRP) are being used to manufacture large diameter pipes suitable for various applications, including water supply, drainage, and industrial piping.

3. Focus on Trenchless Pipe Installation Technologies: Trenchless pipe installation technologies are gaining traction in the large diameter pipe market due to their ability to minimize disruption to the environment and reduce construction costs. Methods such as horizontal directional drilling (HDD) and pipe jacking are being used to install large diameter pipes under roads, rivers, and existing infrastructure, driving demand for flexible and durable pipe materials.

4. Expansion of Large Diameter Pipe Manufacturing Facilities: Major players in the large diameter pipe market are expanding their manufacturing facilities to meet the growing demand for large diameter pipes globally. Companies like Tenaris and JFE Steel Corporation are investing in new production lines, capacity expansions, and technology upgrades to enhance their capabilities in manufacturing large diameter pipes for various applications.

5. Development of Large Diameter Composite Pipes for Oil and Gas Applications: Composite materials are being increasingly used in the oil and gas industry for large diameter pipe applications due to their lightweight, corrosion-resistant, and high-strength properties. Companies like Airborne Oil & Gas and Future Pipe Industries are developing large diameter composite pipes for offshore and onshore oil and gas production, offering advantages in terms of cost savings, installation efficiency, and long-term performance.

6. Integration of Digitalization and IoT in Large Diameter Pipe Monitoring: Digitalization and the Internet of Things (IoT) are being integrated into large diameter pipe systems to enable remote monitoring, predictive maintenance, and real-time data analytics. Smart sensors and communication devices embedded in large diameter pipes

allow operators to monitor key performance indicators such as pressure, temperature, and flow rates, enabling proactive maintenance and optimizing asset performance.

Features of the Large Diameter Pipe Market

Market Size Estimates: Large diameter pipe market size estimation in terms of value (\$B).

Trend and Forecast Analysis: Market trends (2018-2023) and forecast (2024-2030) by various segments and regions.

Segmentation Analysis: Large diameter pipe market size by various segments, such as application and material.

Regional Analysis: Large diameter pipe market breakdown by North America, Europe, Asia Pacific, and the Rest of the World.

Growth Opportunities: Analysis on growth opportunities in different applications, materials, and regions for large diameter pipe market.

Strategic Analysis: This includes M&A and competitive landscape for the large diameter pipes.

Analysis of competitive intensity of the industry based on Porter's Five Forces model.

FAQ

Q1. What is the large diameter pipe market size?

Answer: The global large diameter pipe market is expected to reach an estimated \$145.4 billion by 2030.

Q2. What is the growth forecast for large diameter pipe market?

Answer: The large diameter pipe market is expected to grow at a CAGR of 3.9% from 2024 to 2030.

Q3. What are the major drivers influencing the growth of the large diameter pipe market?

Answer: The major drivers for this market are increasing investment in water and wastewater management, rise in infrastructure spending, and replacement of aging pipelines.

Q4. What are the major applications or end use industries for large diameter pipes?

Answer: Potable water pipes, wastewater pipes, oil and gas pipes, and industrial pipes are the major end use for large diameter pipes.

Q5. What are the emerging trends in large diameter pipe market?

Answer: Emerging trends, which have a direct impact on the dynamics of the industry, are the increasing demand for FRP pipes and multilayer materials and technically advanced pipes that reduce operational time and minimize the risk of pressure resistance, scaling and other deposits caused by substance transmission.

Q6. What are the key large diameter pipe companies?

Answer: Some of the key large diameter pipe companies are as follows:

Tenaris SA

Chelpipe Group

OAOTMK

Vallourec SA

Welspun Corp. Ltd.

Q7. Which will be the largest application segment of the large diameter pipe market in the forecast period?

Answer: Lucintel forecasts that the wastewater pipe segment is expected to remain the largest application segment, driven by growth in residential and commercial

construction and the boom in infrastructure development in developing economies.

Q8. In large diameter pipe market, which region is expected to be the largest in the forecast period?

Answer: Asia Pacific is expected to remain the largest market and it is also projected to have the highest growth over the forecast period over the forecast period.

Q9. Do we receive customization in this report?

Answer: Yes, Lucintel provides 10% Customization Without any Additional Cost.

This report answers following 11 key questions

Q.1 What are some of the most promising potential, high-growth opportunities for the large diameter pipe market by application (potable water pipes, wastewater pipes, oil and gas pipes, industrial pipes, and others), material (metal pipes, plastic pipes, concrete pipes, and others), and region (North America, Europe, Asia Pacific, and the Rest of the World)?

Q.2 Which segments will grow at a faster pace and why?

Q.3 Which regions will grow at a faster pace and why?

Q.4 What are the key factors affecting market dynamics? What are the drivers and challenges of the large diameter pipe market?

Q.5 What are the business risks and threats to the large diameter pipe market?

Q.6 What are the emerging trends in the large diameter pipe market and the reasons behind them?

Q.7 What are some changing demands of customers in the large diameter pipe market?

Q.8 What are the new developments in the large diameter pipe market? Which companies are leading these developments?

Q.9 Who are the major players in the large diameter pipe market? What strategic

initiatives are being implemented by key players for business growth?

Q.10 What are some of the competitive products and processes in the large diameter pipe market, and how big of a threat do they pose for loss of market share via material or product substitution?

Q.11 What M&A activities did take place in the last five years in the large diameter pipe market?

For any questions related to Large Diameter Pipe Market, Large Diameter Pipe Market Size, Large Diameter Pipe Market Growth, Large Diameter Pipe Market Analysis, Large Diameter Pipe Market Report, Large Diameter Pipe Market Share, Large Diameter Pipe Market Trends, Large Diameter Pipe Market Forecast, Large Diameter Pipe Companies, write Lucintel analyst at email: helpdesk@lucintel.com. We will be glad to get back to you soon.

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