

Industrial Sludge Dewatering Equipment Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Equipment Type (Belt Filter Press, Centrifuges, Rotary Drum Filter, Screw Press, Drying Beds, Others), By Technology (Mechanical Dewatering, Thermal Dewatering, Electro-dewatering), By Application (Pulp & Paper Industry, Chemical & Petrochemical Industry, Food & Beverage Industry, Oil & Gas, Others), By Dewatering Method (Thickening, Drying, Filtration, Centrifugation), By Region & Competition, 2020-2030F

<https://marketpublishers.com/r/I5C2B818C6B5EN.html>

Date: May 2025

Pages: 185

Price: US\$ 4,500.00 (Single User License)

ID: I5C2B818C6B5EN

Abstracts

Market Overview

The Global Industrial Sludge Dewatering Equipment Market was valued at USD 1.56 billion in 2024 and is projected to reach USD 2.62 billion by 2030, growing at a CAGR of 8.83% during the forecast period. Growth in this market is driven by increasing environmental concerns, stricter wastewater disposal regulations, and rising industrial water management demands. As industrialization and urban development continue globally, the volume of sludge generated from wastewater treatment plants is increasing significantly, leading to greater demand for equipment that can reduce sludge volume and associated disposal costs while improving treatment efficiency. Key sectors such as oil & gas, food & beverage, mining, chemicals, and pharmaceuticals are actively investing in dewatering technologies to comply with environmental standards. Technological advancements, including automation and IoT integration, are enhancing

equipment performance, reliability, and energy efficiency. The growing emphasis on sustainable and low-energy treatment solutions further supports market expansion, especially in regions with escalating regulatory enforcement and industrial activity.

Key Market Drivers

Stringent Environmental Regulations and Compliance Requirements

Tightening environmental regulations are a major driver in the global adoption of sludge dewatering equipment. Government bodies and environmental agencies are increasingly mandating industries to treat sludge and reduce its water content prior to disposal, with stringent discharge standards for parameters like total suspended solids (TSS), BOD, and COD. In regions such as Europe and North America, a significant percentage of industrial sludge must undergo treatment before being landfilled or reused. For instance, over 60% of sludge in Europe is treated before disposal, and more than 80% of North American wastewater plants comply with updated sludge handling requirements. Countries in the Asia-Pacific region, including China, are also enforcing aggressive targets to raise sludge treatment rates, further driving equipment adoption. Additionally, global sustainability frameworks like ISO 14001 are pushing companies to invest in compliant and efficient sludge management technologies to avoid fines or operational disruptions.

Key Market Challenges

High Capital and Maintenance Costs

A key challenge in the industrial sludge dewatering equipment market is the high cost of acquisition and maintenance. Advanced systems such as decanter centrifuges and belt presses can cost from USD 50,000 to USD 500,000 depending on their size and automation level. Infrastructure upgrades and supporting systems further increase capital expenditures, which can be a major deterrent for small and mid-sized enterprises, especially in developing regions. Operational costs add another layer of concern, with frequent part replacements, energy consumption, and the need for skilled labor to manage the systems. Mechanical wear from abrasive and corrosive sludge leads to regular servicing of components like motors, belts, and bearings. In regions lacking local support infrastructure, downtime due to maintenance delays can disrupt operations and lead to environmental non-compliance penalties. The lack of reliable after-sales service in emerging markets further limits adoption, especially among budget-

constrained operators.

Key Market Trends

Shift Toward Energy-Efficient and Low-Carbon Equipment Designs

A major trend in the global sludge dewatering equipment market is the increasing preference for energy-efficient and environmentally sustainable designs. Technologies such as screw presses and geotextile dewatering bags are gaining popularity due to their lower energy demands, reduced chemical use, and simpler mechanics compared to traditional centrifuges or thermal dryers. Regulatory frameworks in regions like the EU and Japan are pushing companies to minimize their carbon footprint and energy intensity, encouraging the replacement of outdated systems with more efficient alternatives. Equipment manufacturers are responding with innovations including variable frequency drives (VFDs), optimized motor designs, and low-friction components. In addition, hybrid solutions powered by renewable energy sources—such as solar-assisted systems or biogas generation from sludge—are being introduced to align with circular economy objectives and net-zero emission goals. These advancements are driving the adoption of dewatering equipment that balances performance, compliance, and sustainability.

Key Market Players

Veolia Environnement SA

Alfa Laval AB

SUEZ SA

ANDRITZ AG

HUBER SE

GEA Group AG

Evoqua Water Technologies LLC

Flottweg SE

Koch Membrane Systems, Inc.

Schwing Bioiset, Inc.

Report Scope:

In this report, the Global Industrial Sludge Dewatering Equipment Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Industrial Sludge Dewatering Equipment Market, By Equipment Type:

Belt Filter Press

Centrifuges

Rotary Drum Filter

Screw Press

Drying Beds

Others

Industrial Sludge Dewatering Equipment Market, By Technology:

Mechanical Dewatering

Thermal Dewatering

Electro-dewatering

Industrial Sludge Dewatering Equipment Market, By Application:

Pulp & Paper Industry

Chemical & Petrochemical Industry

Food & Beverage Industry

Oil & Gas

Others

Industrial Sludge Dewatering Equipment Market, By Dewatering Method:

Thickening

Drying

Filtration

Centrifugation

Industrial Sludge Dewatering Equipment Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

France

United Kingdom

Italy

Spain

South America

Brazil

Argentina

Colombia

Asia-Pacific

China

India

Japan

South Korea

Australia

Middle East & Africa

Saudi Arabia

UAE

South Africa

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Industrial Sludge Dewatering Equipment Market.

Available Customizations:

Global Industrial Sludge Dewatering Equipment Market report with the given market data, TechSci 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).

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