

Sludge Dewatering Equipment Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Equipment Type (Belt Filter Press, Centrifuge, Rotary Press, Screw Press, Others), By Technology (Mechanical Dewatering, Thermal Dewatering, Chemical Conditioning, Others), By Application (Industrial Sludge, Municipal Sludge), By Region & Competition, 2020-2030F

<https://marketpublishers.com/r/S1DDCCFE3FE3EN.html>

Date: June 2025

Pages: 185

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

ID: S1DDCCFE3FE3EN

Abstracts

Market Overview

The Global Sludge Dewatering Equipment Market was valued at USD 6.75 Billion in 2024 and is projected to reach USD 11.89 Billion by 2030, growing at a CAGR of 9.73% during the forecast period. This market is expanding steadily, supported by rising industrial activity, tightening environmental regulations, and growing needs for efficient wastewater management. Sludge, a byproduct of wastewater treatment processes, presents disposal and environmental challenges due to its high water content. Dewatering equipment addresses this by extracting water, thereby reducing sludge volume and transportation costs. Both municipal and industrial sectors are investing in advanced dewatering technologies to meet regulatory requirements and improve operational efficiency. Key technologies such as centrifuges, belt filter presses, screw presses, and rotary presses are widely adopted, with centrifuges and screw presses favored for their automation, energy efficiency, and adaptability. Technological progress, especially in automation and control systems, is further enhancing system performance. Industrial sectors like food & beverage, chemicals, oil & gas, and pulp & paper contribute substantially to demand due to high sludge output. Municipal

applications are also significant, particularly in developed nations where compliance with environmental standards is critical.

Key Market Drivers

Stringent Environmental Regulations and Compliance Requirements

The global sludge dewatering equipment market is strongly driven by increasingly rigorous environmental regulations aimed at minimizing pollution and safeguarding public health. Authorities across various regions are implementing strict standards that require advanced dewatering technologies to reduce sludge moisture and volume prior to disposal. For instance, European regulations mandate that over 60% of municipal sludge be treated to exceed 25% dry solids, while in the U.S., around 80% of wastewater facilities have adopted mechanical dewatering to meet biosolid management rules. Similarly, Chinese regulations stipulate a moisture content below 60% for sludge disposal via landfill or incineration. Fines for non-compliance can exceed USD 200,000 in certain regions, making investment in efficient sludge dewatering solutions a priority for municipal and industrial operators alike. These regulatory pressures are accelerating the adoption of modern dewatering systems that offer compliance, operational efficiency, and long-term cost savings.

Key Market Challenges

High Capital and Operational Costs

A major obstacle in the sludge dewatering equipment market is the substantial capital investment and operational expenditure required. Technologies like decanter centrifuges and screw presses can cost between USD 50,000 and USD 500,000 depending on system capacity and complexity, which can be prohibitive for small municipalities or low-budget industries. Additionally, high operating costs—driven by energy use, polymer consumption, labor, and routine maintenance—further impact total cost of ownership. Energy-intensive options like thermal dryers may consume up to 1,200 kWh per ton of sludge, significantly inflating utility bills. Maintenance also demands skilled personnel and frequent part replacements, adding to the financial strain. These high costs can deter adoption, especially in developing regions with limited budgets, even when demand is high. As a result, the pace of market growth is often hindered by affordability concerns, delaying the transition to more efficient systems.

Key Market Trends

Growing Demand for Containerized and Mobile Dewatering Units

An emerging trend in the global sludge dewatering equipment market is the rising preference for containerized and mobile dewatering systems. These compact, self-contained units are ideal for locations with limited infrastructure or temporary sludge treatment needs, such as construction sites, mining zones, disaster areas, and remote villages. Capable of processing 5 to 20 cubic meters per hour, these systems offer flexibility, fast deployment, and reduced setup time. Typically pre-equipped with screw presses, polymer units, pumps, and control systems, they arrive factory-tested and ready for use. Their modular design enables easy relocation or scale-up according to project needs. In seasonal industries like sugar processing or pulp & paper, mobile units offer a practical alternative to permanent installations. Additionally, governments and humanitarian organizations are utilizing these systems for rapid response in emergencies such as floods or sanitation crises. This trend reflects the growing need for agile, efficient, and cost-effective sludge treatment solutions across diverse applications.

Key Market Players

Alfa Laval AB

ANDRITZ AG

Huber SE

Veolia Water Technologies

GEA Group AG

Komline-Sanderson Engineering Corporation

FloTrend Systems

Evoqua Water Technologies LLC

FLSmidth & Co. A/S

Schwing Bioset, Inc.

Report Scope:

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

Sludge Dewatering Equipment Market, By Equipment Type:

Belt Filter Press

Centrifuge

Rotary Press

Screw Press

Others

Sludge Dewatering Equipment Market, By Technology:

Mechanical Dewatering

Thermal Dewatering

Chemical Conditioning

Others

Sludge Dewatering Equipment Market, By Application:

Industrial Sludge

Municipal Sludge

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 Sludge Dewatering Equipment Market.

Available Customizations:

Global 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).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. 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

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, and Trends

4. VOICE OF CUSTOMER

5. GLOBAL SLUDGE DEWATERING EQUIPMENT MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Equipment Type (Belt Filter Press, Centrifuge, Rotary Press, Screw Press, Others)
 - 5.2.2. By Technology (Mechanical Dewatering, Thermal Dewatering, Chemical Conditioning, Others)

- 5.2.3. By Application (Industrial Sludge, Municipal Sludge)
- 5.2.4. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)
- 5.3. By Company (2024)
- 5.4. Market Map

6. NORTH AMERICA SLUDGE DEWATERING EQUIPMENT MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Equipment Type
 - 6.2.2. By Technology
 - 6.2.3. By Application
 - 6.2.4. By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States Sludge Dewatering Equipment 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 Equipment Type
 - 6.3.1.2.2. By Technology
 - 6.3.1.2.3. By Application
 - 6.3.2. Canada Sludge Dewatering Equipment 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 Equipment Type
 - 6.3.2.2.2. By Technology
 - 6.3.2.2.3. By Application
 - 6.3.3. Mexico Sludge Dewatering Equipment 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 Equipment Type
 - 6.3.3.2.2. By Technology
 - 6.3.3.2.3. By Application

7. EUROPE SLUDGE DEWATERING EQUIPMENT MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Equipment Type
 - 7.2.2. By Technology
 - 7.2.3. By Application
 - 7.2.4. By Country
- 7.3. Europe: Country Analysis
 - 7.3.1. Germany Sludge Dewatering Equipment 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 Equipment Type
 - 7.3.1.2.2. By Technology
 - 7.3.1.2.3. By Application
 - 7.3.2. France Sludge Dewatering Equipment 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 Equipment Type
 - 7.3.2.2.2. By Technology
 - 7.3.2.2.3. By Application
 - 7.3.3. United Kingdom Sludge Dewatering Equipment 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 Equipment Type
 - 7.3.3.2.2. By Technology
 - 7.3.3.2.3. By Application
 - 7.3.4. Italy Sludge Dewatering Equipment 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 Equipment Type
 - 7.3.4.2.2. By Technology
 - 7.3.4.2.3. By Application
 - 7.3.5. Spain Sludge Dewatering Equipment 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 Equipment Type

7.3.5.2.2. By Technology

7.3.5.2.3. By Application

8. ASIA PACIFIC SLUDGE DEWATERING EQUIPMENT MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Equipment Type

8.2.2. By Technology

8.2.3. By Application

8.2.4. By Country

8.3. Asia Pacific: Country Analysis

8.3.1. China Sludge Dewatering Equipment 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 Equipment Type

8.3.1.2.2. By Technology

8.3.1.2.3. By Application

8.3.2. India Sludge Dewatering Equipment 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 Equipment Type

8.3.2.2.2. By Technology

8.3.2.2.3. By Application

8.3.3. Japan Sludge Dewatering Equipment 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 Equipment Type

8.3.3.2.2. By Technology

8.3.3.2.3. By Application

8.3.4. South Korea Sludge Dewatering Equipment 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 Equipment Type
 - 8.3.4.2.2. By Technology
 - 8.3.4.2.3. By Application
- 8.3.5. Australia Sludge Dewatering Equipment 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 Equipment Type
 - 8.3.5.2.2. By Technology
 - 8.3.5.2.3. By Application

9. MIDDLE EAST & AFRICA SLUDGE DEWATERING EQUIPMENT MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Equipment Type
 - 9.2.2. By Technology
 - 9.2.3. By Application
 - 9.2.4. By Country
- 9.3. Middle East & Africa: Country Analysis
 - 9.3.1. Saudi Arabia Sludge Dewatering Equipment 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 Equipment Type
 - 9.3.1.2.2. By Technology
 - 9.3.1.2.3. By Application
 - 9.3.2. UAE Sludge Dewatering Equipment 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 Equipment Type
 - 9.3.2.2.2. By Technology
 - 9.3.2.2.3. By Application
 - 9.3.3. South Africa Sludge Dewatering Equipment Market Outlook

9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Equipment Type

9.3.3.2.2. By Technology

9.3.3.2.3. By Application

10. SOUTH AMERICA SLUDGE DEWATERING EQUIPMENT MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Equipment Type

10.2.2. By Technology

10.2.3. By Application

10.2.4. By Country

10.3. South America: Country Analysis

10.3.1. Brazil Sludge Dewatering Equipment 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 Equipment Type

10.3.1.2.2. By Technology

10.3.1.2.3. By Application

10.3.2. Colombia Sludge Dewatering Equipment 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 Equipment Type

10.3.2.2.2. By Technology

10.3.2.2.3. By Application

10.3.3. Argentina Sludge Dewatering Equipment 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 Equipment Type

10.3.3.2.2. By Technology

10.3.3.2.3. By Application

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenges

12. MARKET TRENDS AND DEVELOPMENTS

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

13. COMPANY PROFILES

- 13.1. Alfa Laval 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 Offered
- 13.2. ANDRITZ AG
- 13.3. Huber SE
- 13.4. Veolia Water Technologies
- 13.5. GEA Group AG
- 13.6. Komline-Sanderson Engineering Corporation
- 13.7. FloTrend Systems
- 13.8. Evoqua Water Technologies LLC
- 13.9. FLSmidth & Co. A/S
- 13.10. Schwing BioSet, Inc.

14. STRATEGIC RECOMMENDATIONS

15. ABOUT US & DISCLAIMER

I would like to order

Product name: Sludge Dewatering Equipment Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Equipment Type (Belt Filter Press, Centrifuge, Rotary Press, Screw Press, Others), By Technology (Mechanical Dewatering, Thermal Dewatering, Chemical Conditioning, Others), By Application (Industrial Sludge, Municipal Sludge), By Region & Competition, 2020-2030F

Product link: <https://marketpublishers.com/r/S1DDCCFE3FE3EN.html>

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

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/S1DDCCFE3FE3EN.html>