

# **Municipal 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, Chemical Dewatering), By Application (Municipal Wastewater Treatment Plants, Sludge Treatment Facilities, Others), By Region & Competition, 2020-2030F**

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## **Abstracts**

### **Market Overview**

The Global Municipal Sludge Dewatering Equipment Market was valued at USD 3.74 billion in 2024 and is projected to reach USD 6.33 billion by 2030, growing at a CAGR of 9.01% during the forecast period. This market is expanding steadily due to increased urbanization, aging sewage infrastructure, and stricter environmental regulations worldwide. As municipalities face mounting volumes of sewage sludge, the demand for efficient dewatering technologies that reduce sludge weight and volume prior to disposal has intensified. These systems help lower disposal costs, improve operational efficiency, and enable resource recovery. Technological progress has led to the development of advanced solutions—such as belt filter presses, centrifuges, and screw presses—offering high efficiency, lower energy use, and automation capabilities. In addition, sustainability goals and circular economy practices are encouraging municipalities to integrate dewatering with energy recovery methods like anaerobic digestion. While developed regions lead in technology adoption, rapid infrastructure upgrades in Asia Pacific are making it the fastest-growing market.

## Key Market Drivers

### Stringent Environmental Regulations Driving Equipment Upgrades

Toughening environmental regulations across the globe are compelling municipalities to improve sludge treatment capabilities. Regulatory bodies such as the U.S. EPA, European Environment Agency, and national pollution boards in developing economies mandate strict controls on sludge characteristics, including moisture content, pathogen load, and contaminant levels. For example, the EU's Urban Waste Water Treatment Directive requires that a significant share of sludge be treated and stabilized before reuse or disposal. In the U.S., updated biosolids regulations under the Clean Water Act have spurred significant investment in high-performance dewatering solutions. Municipalities are increasingly investing in systems that can reduce sludge volume by over 60% to meet disposal standards and avoid penalties, making regulatory compliance a major demand driver.

## Key Market Challenges

### High Initial Capital Investment and Maintenance Costs

High initial investment and ongoing maintenance costs are key barriers to broader adoption of municipal sludge dewatering equipment. Technologies such as centrifuges, rotary presses, and belt filter presses can require capital outlays ranging from USD 100,000 to over USD 1 million, depending on size and features. Additional expenditures for auxiliary systems, installation, and skilled labor further elevate costs. Equipment components such as belts and bearings need regular maintenance and replacement, adding to long-term operating expenses. Smaller municipalities often lack the technical expertise and financial resources to manage these systems effectively. In rural and low-budget settings, this leads to deferred adoption or suboptimal use, especially where budget allocation favors other essential services like drinking water supply.

## Key Market Trends

### Integration of Automation and IoT for Real-Time Monitoring

Automation and IoT integration are transforming municipal sludge dewatering by enabling smart, data-driven operations. Advanced control panels, cloud-based analytics, and real-time diagnostics are now being embedded into dewatering systems.

These tools allow continuous monitoring of parameters such as feed rate, polymer dosing, and energy consumption, optimizing operations dynamically. IoT-enabled equipment also supports predictive maintenance, reducing unplanned downtime and extending system lifespan. In urban regions across North America, Europe, and Asia Pacific, smart city initiatives are accelerating the deployment of such systems. Mobile apps further enhance operator convenience by enabling remote control and diagnostics. This trend toward digitalization enhances system efficiency, transparency, and accountability, positioning IoT-equipped dewatering equipment as a valuable asset in modern municipal infrastructure.

## **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 Bioset, Inc.

## **Report Scope:**

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

also been detailed below:

#### Municipal Sludge Dewatering Equipment Market, By Equipment Type:

- Belt Filter Press
- Centrifuges
- Rotary Drum Filter
- Screw Press
- Drying Beds
- Others

#### Municipal Sludge Dewatering Equipment Market, By Technology:

- Mechanical Dewatering
- Thermal Dewatering
- Chemical Dewatering

#### Municipal Sludge Dewatering Equipment Market, By Application:

- Municipal Wastewater Treatment Plants
- Sludge Treatment Facilities
- Others

#### Municipal 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 Municipal Sludge Dewatering Equipment Market.

## **Available Customizations:**

Global Municipal 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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