

# Horizontal Screw Centrifuge Market to Hit USD 2.8 Billion by 2034, Driven by Wastewater and Food Processing Demand

*Horizontal Screw Centrifuge Market to reach USD 2.8B by 2034, driven by wastewater treatment, food & beverage demand, and smart, energy-efficient tech.*

VANCOUVER, BC, CANADA, August 14, 2025 /EINPresswire.com/ -- The global [Horizontal Screw Centrifuge Market](#) is set for strong growth, rising from USD 850 million in 2024 to USD 2.8 billion by 2034, at a compound annual growth rate (CAGR) of 7.20%, according to the latest industry analysis.



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Growth is being fueled by rapid industrialization, stricter environmental regulations, and the increasing need for efficient waste management. Horizontal screw centrifuges are becoming essential in sectors such as wastewater treatment, food and beverage processing, and chemical and pharmaceutical manufacturing.

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## Wastewater Treatment Leads, Food & Beverage Fastest Growing

Wastewater treatment is currently the largest application segment, projected to grow from USD 300 million in 2024 to USD 1 billion by 2034, driven by rising global investments in treatment infrastructure. The food and beverage industry is expected to be the fastest-growing segment, expanding at 8.5% annually, supported by higher hygiene standards and the need for more efficient processing systems.

## Technology and Regulation as Key Growth Drivers

Two main factors are propelling the market forward: advanced technology and strict regulatory requirements.

Technology – The integration of automation and Internet of Things (IoT) features is improving operational efficiency and enabling real-time monitoring. IoT adoption in industrial equipment is expected to grow 25% annually, making predictive maintenance more effective and reducing downtime.

Regulation – Environmental agencies worldwide are introducing stricter rules to minimize industrial waste and pollution. For example, the European Union's Water Framework Directive and the U.S. Environmental Protection Agency's wastewater treatment standards are pushing industries to adopt advanced centrifuge solutions.

Public initiatives are also boosting demand. China's 14th Five-Year Plan prioritizes environmental protection, while significant funding programs in Europe and North America are enhancing infrastructure for waste management.

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### Product Innovations Boost Market Potential

Leading companies like Alfa Laval, GEA Group, and Flottweg SE are investing in new designs to improve energy efficiency and performance. In March 2024, Alfa Laval launched a new energy-saving range of centrifuges for the food and beverage sector, cutting energy use by 15% and increasing capacity by 20%.

### Market Challenges

Despite the positive outlook, the market faces some hurdles. High initial investment costs—ranging from USD 100,000 to USD 500,000—can deter small and medium-sized enterprises. Integrating advanced technology into existing systems is also challenging, with 45% of manufacturers citing technical barriers. Additionally, there is a shortage of skilled personnel to operate and maintain these systems, and ongoing maintenance costs can be significant.

### Horizontal Screw Centrifuge Competitive Strategies & Notable Developments

#### Top 10 Companies

Alfa Laval  
GEA Group  
Flottweg SE  
Andritz AG  
Pieralisi Group  
Mitsubishi Kakoki Kaisha, Ltd.  
Hiller GmbH  
Tomoe Engineering Co., Ltd.

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## Market Segmentation Highlights

### By Product Type:

Decanter Centrifuge – Largest segment, expected to grow from USD 450 million in 2024 to USD 1.5 billion by 2034 (CAGR 8%). Known for handling high solid content, ideal for wastewater and sludge treatment.

Disc Stack Centrifuge – Fastest-growing product segment at 9% CAGR, widely used in food, beverage, and pharmaceuticals for high-speed separation and product quality assurance.

Solid Bowl Centrifuge – Smaller share but steady growth in specialized applications.

### By Application:

Wastewater Treatment – Largest share, driven by sustainability goals and government mandates.

Food & Beverage Processing – Fastest-growing, benefiting from rising demand for safe, high-quality products.

Chemical & Pharmaceutical Manufacturing – Steady growth due to strict quality standards.

### By End User:

Industrial – Largest segment, projected to grow from USD 400 million in 2024 to USD 1.3 billion by 2034.

Municipal – Fastest-growing end-user category, driven by rapid urbanization and investments in urban wastewater treatment systems.

Commercial – Niche but important role in specialized operations.

## Horizontal Screw Centrifuge Market Segmentation

### By Product Type

Decanter Centrifuge

Disc Stack Centrifuge

Solid Bowl Centrifuge

### By Application

Wastewater Treatment  
Food and Beverage Processing  
Chemical and Pharmaceutical Manufacturing

By End User

Industrial  
Municipal  
Commercial

By Technology

Manual  
Semi-Automatic  
Fully Automatic

By Distribution Channel

Direct Sales  
Distributors  
Online Platforms

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