

# Global Decanter Centrifuge Market Size Study & Forecast, by Product Type (Two-phase and Three-phase) and Regional Forecasts 2025-2035

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## Abstracts

The Global Decanter Centrifuge Market is valued at approximately USD 2.16 billion in 2024 and is projected to expand at an exceptional CAGR of 34.25% over the forecast period from 2025 to 2035, with historical data covering 2023 and 2024 and 2024 serving as the base year for estimation. Decanter centrifuges are high-performance mechanical separation systems engineered to continuously separate solids from liquids, or liquids of different densities, through centrifugal force. These systems have increasingly been taken up across industries where precision separation, process efficiency, and operational continuity are mission-critical. As industries pivot toward automation, higher throughput, and stricter environmental compliance, decanter centrifuges are being leaned on to deliver scalable, energy-efficient, and low-maintenance separation solutions.

Market expansion is being powered by the rapid scaling-up of industrial processing capacities, tightening wastewater discharge norms, and rising demand for resource recovery across mining, energy, and food processing sectors. As industrial operators double down on optimizing yield and minimizing waste, decanter centrifuges are being rolled out to handle complex slurries, viscous fluids, and multi-phase mixtures with minimal human intervention. Technological advancements ranging from wear-resistant materials and smart control systems to improved bowl and conveyor designs are further pushing adoption forward. While high capital investment and energy consumption remain watchpoints, the compelling return on investment and long-term operational resilience continue to tip procurement decisions in favor of decanter centrifuge systems.

**The detailed segments and sub-segments included in the report are:**

**By Product Type:**

Two-phase

Three-phase

**By Design Type:**

Vertical Decanter

Horizontal Decanter

Conveyor Centrifuge Decanter

**By Application:**

Mining and Minerals

Heavy Oil and Mineral Oil

Food and Beverage

Biofuels/Agriculture Processing

Water Management

Chemical

Pharmaceuticals &amp; Biotechnology

Others

**By Region:**

North America

U.S.

Canada

## Europe

UK

Germany

France

Spain

Italy

ROE

## Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

## Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Three-phase decanter centrifuges are expected to dominate the market over the forecast horizon, accounting for a substantial share of installations worldwide. Their ability to simultaneously separate solids and two immiscible liquid phases makes them indispensable in applications such as oil refining, wastewater treatment, and food processing. As industries increasingly process complex feedstocks and seek to extract maximum value from by-products, three-phase systems are being scaled up to deliver superior separation accuracy and higher recovery rates.

From a revenue perspective, horizontal decanter centrifuges currently lead the market, driven by their versatility, high throughput capacity, and suitability for continuous industrial operations. Horizontal designs have been widely phased in across mining, chemical, and water management applications, where consistent performance under heavy loads is non-negotiable. Meanwhile, vertical decanters are gaining selective traction in space-constrained facilities, and conveyor centrifuge decanters are emerging as a high-growth niche, particularly in abrasive and high-solids environments.

The key regions considered for the Global Decanter Centrifuge Market include North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa. North America continues to hold a strong position, supported by advanced industrial infrastructure, stringent environmental regulations, and early adoption of automated separation technologies. Europe follows closely, driven by sustainability mandates and robust food, chemical, and pharmaceutical industries. Asia Pacific is poised to register the fastest growth during the forecast period, as rapid industrialization, expanding mining activities, and large-scale investments in water and wastewater management across China and India significantly lift demand.

**Major market players included in this report are:**

Alfa Laval AB

GEA Group AG

ANDRITZ AG

Flottweg SE

Mitsubishi Kakoki Kaisha, Ltd.

SPX FLOW, Inc.

IHI Corporation

Tomoe Engineering Co., Ltd.

Hiller GmbH

Ferrum AG

Centrifugal Separator Manufacturing, Inc.

Siebtechnik Tema GmbH

Thomas Broadbent & Sons Ltd.

HAUS Centrifuge Technologies

Sanborn Technologies

**Global Decanter Centrifuge Market Report Scope:**

Historical Data ? 2023, 2024

Base Year for Estimation ? 2024

Forecast period - 2025-2035

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts? working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments and countries in recent years and to forecast their values for the coming years. The report integrates qualitative insights with quantitative analysis to surface key growth drivers, emerging challenges, and untapped opportunities shaping the decanter centrifuge landscape. It further dissects competitive positioning, technology innovation pathways, and strategic investment priorities, offering stakeholders a structured lens through which to navigate the market across the forecast period.

### **Key Takeaways:**

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of the competitive structure of the market.

Demand side and supply side analysis of the market.



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