

# Gastroretentive Drug Delivery System Outsourcing Market Report: Trends, Forecast and Competitive Analysis to 2030

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## Abstracts

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### Gastroretentive Drug Delivery System Outsourcing Trends and Forecast

The future of the global gastroretentive drug delivery system outsourcing market looks promising with opportunities in the high-density system, expandable drug delivery system, bioadhesive drug delivery system, and floating drug delivery system markets. The global gastroretentive drug delivery system outsourcing market is expected to grow with a CAGR of 6.7% from 2024 to 2030. The major drivers for this market are increasing emphasis on patient-centric solutions, rising demand for outsourcing, a growing focus on localized drug delivery, and increasing investments in R&D programs.

Lucintel forecasts that, within the dosage form category, the capsule is expected to witness the highest growth over the forecast period.

Within this market, within the type category, the floating drug delivery system is expected to witness the highest growth.

In terms of regions, North America is expected to witness the highest growth over the forecast period due to the region's sophisticated pharmaceutical sector, potent R&D capacities, robust market demand, and well-established healthcare system.

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report.

## Emerging Trends in the Gastroretentive Drug Delivery System Outsourcing Market

The gastroretentive drug delivery system (GRDDS) market is undergoing significant transformation due to advancements in drug formulation technologies, increasing demand for sustained and controlled-release medications, and the growing trend of outsourcing in the pharmaceutical industry. As GRDDS continues to gain traction, both the drug delivery system market and the outsourcing sector are evolving. Emerging trends such as increased focus on patient-centric formulations, technological innovation, and regulatory shifts are shaping the market landscape.

**Technological Innovations in GRDDS:** Innovations in polymer-based systems, pH-sensitive materials, and gastric retention devices are enhancing the performance of GRDDS, making them more effective and patient-friendly.

**Patient-Centric Drug Delivery:** There is a growing emphasis on developing GRDDS formulations that cater to individual patient needs, improving drug efficacy and minimizing side effects.

**Growth in Outsourcing Services:** As pharmaceutical companies seek to reduce costs and enhance operational efficiency, outsourcing GRDDS manufacturing to specialized contract service providers has been on the rise.

**Focus on Long-Term Medication Adherence:** GRDDS, designed for sustained release, is increasingly used for chronic conditions, promoting better adherence to treatment regimens.

**Regulatory Advancements:** Evolving regulatory frameworks around the approval and quality control of GRDDS are driving innovation and ensuring greater consistency in the market.

The gastroretentive drug delivery system outsourcing market is set to grow significantly, driven by technological advancements, the increasing demand for patient-specific solutions, and the ongoing trend of outsourcing pharmaceutical manufacturing. Innovations in GRDDS technology, coupled with evolving regulations and a focus on medication adherence, will continue to shape the future of this market. Companies that can leverage these emerging trends will likely see substantial growth and enhanced

market share.

## Recent Developments in the Gastroretentive Drug Delivery System Outsourcing Market

The GRDDS outsourcing market has witnessed significant recent developments as pharmaceutical companies increasingly recognize the benefits of leveraging specialized contract manufacturers for gastro retentive drug formulations. These developments reflect both technological advancements and a broader trend toward cost-efficient drug development, production, and global market expansion. The market has become more competitive, with firms focusing on innovation and regulatory compliance to meet the needs of a rapidly growing patient base.

**Advances in GRDDS Technology:** Recent breakthroughs in GRDDS, such as mucoadhesive systems and bio-adhesive polymers, have improved retention times and drug release control, enhancing therapeutic outcomes.

**Growing Demand for Outsourcing:** Pharmaceutical companies are increasingly outsourcing GRDDS manufacturing to reduce production costs, mitigate risks, and shorten time-to-market for new drugs.

**Increase in Regulatory Compliance:** Stricter regulatory standards, especially regarding safety and efficacy, are influencing how GRDDS formulations are developed and outsourced, leading to higher-quality systems.

**Expansion of Outsourcing Networks:** Leading contract manufacturing organizations (CMOs) have expanded their services globally, catering to pharmaceutical companies looking to tap into emerging markets with robust GRDDS capabilities.

**Enhanced Drug Formulation Capabilities:** Companies are enhancing their GRDDS formulations with next-generation technologies like controlled-release mechanisms and targeted delivery, which significantly improve treatment for chronic diseases.

Recent developments in the GRDDS outsourcing market highlight key trends such as technological advancements, increased regulatory scrutiny, and the growing preference for outsourcing as a cost-effective solution. Companies that can innovate and adapt to these changes while maintaining a focus on regulatory compliance and patient

outcomes are likely to thrive in this dynamic and rapidly expanding market.

## Strategic Growth Opportunities for Gastroretentive Drug Delivery System Outsourcing Market

The GRDDS outsourcing market presents substantial strategic growth opportunities as pharmaceutical companies increasingly focus on developing advanced drug delivery systems for chronic and complex diseases. The benefits of outsourcing, such as cost reduction, accelerated product development, and access to specialized expertise, create a favorable environment for market growth. By leveraging these opportunities, contract manufacturing organizations (CMOs) can expand their capabilities, enhance service offerings, and tap into new markets.

**Expansion of Outsourcing Partnerships:** Pharmaceutical companies are increasingly partnering with CMOs that specialize in GRDDS to streamline production processes, improve efficiency, and access cutting-edge technologies.

**Growing Demand for Chronic Disease Management:** The rise in chronic conditions such as diabetes, hypertension, and gastrointestinal disorders presents an opportunity to develop specialized GRDDS formulations aimed at improving long-term medication adherence.

**Geographic Expansion:** Expanding outsourcing operations into emerging markets with growing healthcare needs can provide CMOs with a significant opportunity to gain market share in new regions.

**Personalized Medicine:** The trend toward personalized and patient-specific formulations presents a significant opportunity for GRDDS companies to tailor solutions for individual therapeutic needs.

**Integration of Advanced Technologies:** The integration of advanced technologies, such as AI and data analytics, in the GRDDS outsourcing process can optimize product development, reduce costs, and improve quality control.

Strategic growth opportunities in the GRDDS outsourcing market are abundant, driven by the demand for specialized drug delivery systems, advancements in chronic disease management, and the increasing need for personalized medicine. By focusing on expanding outsourcing partnerships, geographic reach, and integrating next-generation

technologies, CMOs can capitalize on these opportunities. As the market grows, these factors will help shape the future of GRDDS outsourcing and create new avenues for growth.

## Gastroretentive Drug Delivery System Outsourcing Market Driver and Challenges

The GRDDS outsourcing market is influenced by a variety of drivers, such as increasing demand for advanced drug delivery technologies, growing healthcare needs for chronic disease management, and the trend toward cost-efficient pharmaceutical manufacturing. However, the market also faces several challenges, including regulatory complexities, high production costs, and technological limitations. Understanding these drivers and challenges is essential for companies looking to navigate the competitive landscape and capitalize on growth opportunities.

### Market Drivers:

**Rising Demand for Chronic Disease Treatments:** The increasing prevalence of chronic diseases, such as diabetes and hypertension, drives the need for controlled and sustained drug release, creating demand for GRDDS.

**Outsourcing to Reduce Costs:** Pharmaceutical companies are increasingly outsourcing GRDDS manufacturing to reduce production costs, enhance operational flexibility, and speed up time-to-market.

**Technological Advancements in Drug Formulation:** Continuous improvements in drug delivery technologies, including bioadhesive systems and controlled-release mechanisms, support the growth of GRDDS applications.

**Focus on Medication Adherence:** GRDDS plays a crucial role in improving patient adherence to long-term treatments, thereby driving its adoption in the management of chronic conditions.

**Regulatory Push for Safer, More Effective Therapies:** Stricter regulatory requirements for drug delivery systems are driving innovation and enhancing the demand for reliable and compliant GRDDS solutions.

### Market Challenges:

**High Development and Manufacturing Costs:** The complexity of developing and producing GRDDS formulations can result in high initial investment and operational costs, especially for smaller companies.

**Regulatory Hurdles:** Navigating complex and region-specific regulatory requirements can delay market entry and increase development costs.

**Technological Complexity:** The need for advanced technologies to design and manufacture GRDDS requires specialized expertise, which may limit market participation for less experienced firms.

The GRDDS outsourcing market is driven by factors such as the increasing demand for chronic disease treatments, technological advancements, and the cost-saving benefits of outsourcing. However, it also faces challenges including high development costs, regulatory complexities, and technological barriers. By overcoming these challenges and leveraging market drivers, companies in the GRDDS outsourcing space can position themselves for sustained growth and success in a rapidly evolving market.

#### List of Gastroretentive Drug Delivery System Outsourcing Companies

Companies in the market compete on the basis of product quality offered. Major players in this market focus on expanding their manufacturing facilities, R&D investments, infrastructural development, and leverage integration opportunities across the value chain. Through these strategies gastroretentive drug delivery system outsourcing companies cater increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the gastroretentive drug delivery system outsourcing companies profiled in this report include-

F. Hoffmann La Roche

Glaxo Smith Kline

Lupin

Pfizer

Sun Pharma

Ranbaxy

Depomed

### Gastroretentive Drug Delivery System Outsourcing by Segment

The study includes a forecast for the global gastroretentive drug delivery system outsourcing by type, dosage form, distribution channel, and region.

Gastroretentive Drug Delivery System Outsourcing Market by Type [Analysis by Value from 2018 to 2030]:

High Density System

Expandable Drug Delivery System

Bioadhesive Drug Delivery System

Floating Drug Delivery System

Others

Gastroretentive Drug Delivery System Outsourcing Market by Dosage Form [Analysis by Value from 2018 to 2030]:

Tablets

Liquid

Microspheres

Capsule

Others

## Gastroretentive Drug Delivery System Outsourcing Market by Distribution Channel [Analysis by Value from 2018 to 2030]:

Hospital Pharmacies

Retail Pharmacies

Online Pharmacies

## Gastroretentive Drug Delivery System Outsourcing Market by Region [Analysis by Value from 2018 to 2030]:

North America

Europe

Asia Pacific

The Rest of the World

## Country Wise Outlook for the Gastroretentive Drug Delivery System Outsourcing Market

Due to the growing need for sustained drug release formulations, the market for outsourcing Gastroretentive Drug Delivery Systems (GRDDS) is progressing significantly. This growth is driven by globalization as pharmaceutical companies enhance patient compliance and optimize therapeutic effectiveness. Outsourcing partners are focusing on innovative technologies and cost-efficient options. MRI's analysis indicates that significant in vitro and in vivo studies, as well as investments from the United States, China, Germany, India, and Japan, are helping develop market-specific novel gastroretentive formulations and manufacturing technologies.

**United States:** In the U.S., the GRDDS outsourcing market is seeing an increased level of investment, particularly in offshoring GRDDS through Contract Development and Manufacturing Organizations (CDMOs). Companies are launching sophisticated formulations aimed at improving bioavailability and sustaining the rate of drug release. Collaborating with CDMOs has become a source of innovation for pharmaceutical companies, leading to the development

of new types of gastroretentive systems, such as floating tablets and hydrogels, which enhance patient compliance.

**China:** The GRDDS market in China is growing rapidly due to the expanding capacity of the domestic pharmaceutical industry and the rising demand for advanced drug delivery strategies. Research projects are being supported by the government, and local companies are taking the initiative to develop the next generation of vertical and lateral GRDDS systems. Domestic and foreign firms are collaborating to improve formulation methods and ensure regulatory compliance.

**Germany:** Germany is well-known for its pharmaceutical development and technological advancements, and this is also evident in its GRDDS outsourcing market. Recent trends include the development of individualized therapies and focused drug delivery systems. German CDMOs are increasingly using 3D printing technology to design specific gastroretentive formulations tailored to individual patients.

**India:** In India, the GRDDS outsourcing market is expanding as local pharmaceutical companies become more open to innovative approaches in drug delivery. The focus on providing cost-effective healthcare has led to the growth of more affordable GRDDS products. International partnerships are helping Indian companies acquire new competencies, enabling them to establish a global presence.

**Japan:** From a regulatory standpoint, Japan's GRDDS outsourcing market is sustained by a strong focus on quality and innovation. Japanese pharmaceutical companies are investing in next-generation formulation technologies and collaborating with research institutes to develop advanced gastroretentive systems. Another emerging trend is the increasing regulatory encouragement for innovative drug delivery products, which is helping bring new products to market more rapidly.

## Features of the Global Gastroretentive Drug Delivery System Outsourcing Market

**Market Size Estimates:** Gastroretentive drug delivery system outsourcing market size estimation in terms of value (\$B).

Trend and Forecast Analysis: Market trends (2018 to 2023) and forecast (2024 to 2030) by various segments and regions.

Segmentation Analysis: Gastroretentive drug delivery system outsourcing market size by type, dosage form, distribution channel, and region in terms of value (\$B).

Regional Analysis: Gastroretentive drug delivery system outsourcing market breakdown by North America, Europe, Asia Pacific, and Rest of the World.

Growth Opportunities: Analysis of growth opportunities in different type, dosage form, distribution channel, and regions for the gastroretentive drug delivery system outsourcing market.

Strategic Analysis: This includes M&A, new product development, and competitive landscape of the gastroretentive drug delivery system outsourcing market.

Analysis of competitive intensity of the industry based on Porter's Five Forces model.

If you are looking to expand your business in this market or adjacent markets, then contact us. We have done hundreds of strategic consulting projects in market entry, opportunity screening, due diligence, supply chain analysis, M & A, and more.

This report answers following 11 key questions:

Q.1. What are some of the most promising, high-growth opportunities for the gastroretentive drug delivery system outsourcing market by type (high density system, expandable drug delivery system, bioadhesive drug delivery system, floating drug delivery system, and others), dosage form (tablets, liquid, microspheres, capsule, and others), distribution channel (hospital pharmacies, retail pharmacies, and online pharmacies), and region (North America, Europe, Asia Pacific, and the Rest of the World)?

Q.2. Which segments will grow at a faster pace and why?

Q.3. Which region will grow at a faster pace and why?

Q.4. What are the key factors affecting market dynamics? What are the key challenges and business risks in this market?

Q.5. What are the business risks and competitive threats in this market?

Q.6. What are the emerging trends in this market and the reasons behind them?

Q.7. What are some of the changing demands of customers in the market?

Q.8. What are the new developments in the market? Which companies are leading these developments?

Q.9. Who are the major players in this market? What strategic initiatives are key players pursuing for business growth?

Q.10. What are some of the competing products in this market and how big of a threat do they pose for loss of market share by material or product substitution?

Q.11. What M&A activity has occurred in the last 5 years and what has its impact been on the industry?

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7.5: Sun Pharma

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