

# **Particle Size Analysis Market by Technology (Laser Diffraction, DLS, Imaging, Coulter Principle, Sieving, Nanoparticle Tracking), Dispersion (Wet, Dry, Spray), Enduser (Pharma-biotech, Cosmeceutical, Chemicals, Food, Academia) - Global Forecasts to 2028**

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## **Abstracts**

The particle size analysis market is projected to reach USD 596 million by 2028 from USD 446 million in 2023, at a CAGR of 6.0% from 2023 to 2028. The growth of the particle size analysis market is the rise in research endeavors within the realm of nanotechnology, amplified investments in pharmaceutical research and development, and the enforcement of strict regulatory standards for product quality across various sectors. Nevertheless, substantial import tariffs imposed on particle size analyzers in emerging economies and limitations in the scope of particle characterization are anticipated to impede market growth.

“The laser diffraction segment held the largest share of the market in 2023.”

Based on technology, the particle size analysis market is segmented into laser diffraction, dynamic light scattering, imaging, Coulter principle, nanoparticle tracking analysis, and other technologies. The laser diffraction segment held the largest market share in 2023. The market is expected to experience growth due to the expansion of efforts to promote awareness of laser diffraction, the upsurge in corporate training programs, higher research and development investments within the pharmaceutical and biotechnology industries, and the mounting concerns surrounding food safety.

“The wet dispersion segment to hold a major share of the particle size analysis market during the forecast period”

Based on dispersion, the particle size analysis market is segmented into wet dispersion, dry dispersion and spray dispersion. The wet dispersion segment is projected to register the highest CAGR of dispersion market from 2023 to 2028. The rapid growth in this market segment is primarily attributed to the expanding utilization of nanoparticles, which are primarily examined through liquid dispersion methods.

“The market in the North America region is expected to witness the highest growth during the forecast period.”

The particle size analysis market region is segmented into North America, Europe, Asia Pacific, Latin America, Middle East and the Africa. the North America region is expected to register the highest CAGR during the forecast period 2023 TO 2028. primarily due to evolving healthcare infrastructure and the increasing focus of major players in the region. Furthermore, governments across North American nations are placing a strong emphasis on guaranteeing product quality, with particle size analyzers serving a pivotal role in quality control measures. These factors are anticipated to fuel the growth of the particle size analysis market in this region.

A breakdown of the primary participants referred to for this report is provided below:

By Company Type: Tier 1– 30%, Tier 2– 42%, and Tier 3– 28%

By Designation: Director-level– 40%, C-level– 50%, and Others– 10%

By Region: North America– 40%, Europe– 30%, Asia Pacific– 22%, Latin America- 06%, Middle East and Africa-02%

The prominent players in the particle size analysis market are HORIBA (Japan), Danaher (US), Spectris (UK) and others.

## Research Coverage

This report studies the particle size analysis market based on technology, dispersion, type, end user, and region. It also covers the factors affecting market growth, analyzes the various opportunities and challenges in the market, and provides details of the competitive landscape for market leaders. Furthermore, the report analyzes micro markets with respect to their growth trends and forecasts the revenue of the market segments with respect to three main regions (and the respective countries in these

regions).

### Reasons to Buy the Report

The report will help the market leaders/new entrants with information on the closest approximations of the revenue numbers for the overall particle size analysis market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities.

This report provides insights on the following pointers:

Analysis of key drivers (increasing research activities in the field of nanotechnology, increasing investments in pharmaceutical r&d, development of technologically advanced nanoparticle instruments, stringent regulatory guidelines for product quality across industries, and increasing funding activities to drive the purchasing power of research institutions), restraints (high cost of particle size analyzers, limitations in particle characterization range), opportunities (increasing number of conferences and events, emerging markets,) challenges (lack of well-established distribution networks among SMEs, limitations of laser diffraction technology) influencing the growth of the particle size analysis market

**Product Development/Innovation:** Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the particle size analysis market

**Market Development:** Comprehensive information about lucrative markets—the report analyses the particle size analysis market across varied regions.

**Market Diversification:** Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the particle size analysis market

**Competitive Assessment:** In-depth assessment of market shares, growth strategies, and service offerings of leading players like HORIBA (Japan), Danaher (US), Spectris (UK) and others.



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## About

In this report, the global particle size analyzers market is classified into six segments based on the type of technology used in the analysis of particle size. It includes laser diffraction, dynamic light scattering (DLS), imaging, nanotechnology particle analysis (NTA), Coulter Principle, and others. The others segment comprises resonant mass measurement, laser obscuration, sedimentation, and sieve analysis. The laser diffraction segment accounted for the largest share of the global particle size analyzers market at an estimated \$XX million in 2013, while the imaging technology market is expected to grow at the highest CAGR of XX% in the forecast period. Increasing demand of more precise and accurate size analyzing solutions and technological advancements in imaging technologies are the key factors stimulating the growth of the imaging technology-based particle size analyzers market.

On the basis of type of dispersion, the global particle size analyzers market has been segmented into wet, dry, and spray particle size analyzers. In 2013, the wet particle size analyzers segment accounted for a share of XX% of the particle size analyzers market, by type of dispersion, and is poised to grow at the highest CAGR of XX% from 2013 to 2018. Increase in the number of launches of different wet particle size analyzers and rising demand for nanoparticle analyzing instruments are the key factor propelling the growth of this segment.

On the basis of type of industry, the global particle size analyzers market is classified into five categories, namely, healthcare; chemicals and petroleum; mining, minerals, and cement; food and beverage; and others (inks, toners, paints, coatings, cosmetics, and environmental analysis). The healthcare industry is the fastest growing segment in this market, owing to the increasing application of nanotechnology in medical science and the rapid growth of pharmaceutical and biopharmaceutical products.

North America commanded largest share—XX%—of the global laser diffraction particle size analyzers market at an estimated \$XX million in 2013 and it is expected to reach \$XX million by 2018, at a CAGR of XX% from 2013 to 2018. However, the Asia-Pacific laser diffraction particle size analyzers market is estimated to grow at the highest CAGR of XX% from 2013 to 2018, to reach \$XX million by 2018. Rapidly growing traditional markets such as pharmaceuticals, mining and minerals, chemicals, and petroleum, in developing countries are propelling the growth of the laser diffraction particle size analyzers market in the Asia-Pacific region.



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