

Particle Size Analysis Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview:

The global particle size analysis market size reached US\$ 378.5 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 510.1 Million by 2028, exhibiting a growth rate (CAGR) of 4.7% during 2023-2028.

Particle size analysis is the process of determining the size and distribution of particles in a given solid, emulsion, suspension or aerosol. Different methods of analysis are employed to measure particle size; some procedures can be used for a wide range of materials, while others are sample specific. Particle size analysis forms an integral part of several industrial processes for quality control as well as in determining the efficiency of the manufacturing process and product performance. As a result, it is extensively used in the production of aerosols, food and beverages, paints and coatings, building materials and pharmaceuticals.

Over the years, particle size analysis has evolved from milling, sieving and other material processing techniques to dynamic digital image analysis (DIA), static laser light scattering (SLS), also called laser diffraction, and sieve analysis, which are used in a variety of industries. It is widely used in the production of semiconductor components and cosmetic products, wherein it impacts reflectivity, color, flavor, hydration rate, and appearance, including gloss and tinctorial strength of the final products. Similarly, in the pharmaceutical industry, it is employed for determining and ensuring the homogeneity of medicines including capsules, pills and tablets, coupled with maintaining fluidity and consistency of raw material. Moreover, the stringent regulatory guidelines by governments of various nations regarding product quality across industries are further

anticipated to drive the revenues for particle size analyzer manufacturers.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global particle size analysis market report, along with forecasts at the global and regional level from 2023-2028. Our report has categorized the market based on technology and application.

Breakup by Technology:

- Laser Diffraction
- Dynamic Light Scattering (DLS)
- Image Analysis
- Nanoparticle Tracking Analysis (NTA)
- Others

Based on the technology, the laser diffraction segment accounts for the majority of the total market share.

Breakup by Application:

- Medicine and Healthcare Industry
- Mining and Minerals Industry
- Petrochemical Industry
- Food and Beverages Industry
- Others

On the basis of the application, the report finds that the medicine and healthcare industry represents the leading segment.

Regional Insights:

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Region-wise, North America exhibits a clear dominance in the market, holding the

majority of the total market share.

Competitive Landscape:

The competitive landscape of the market has also been examined in the report. It is characterized by the presence of numerous small and large manufacturers who compete in terms of prices and quality. Some of the major players operating in the market are:

Malvern Instruments Ltd.

Horiba Ltd.

Beckman Coulter, Inc.

Microtrac Inc.

Micromeritics Instruments

Key Questions Answered in This Report:

How has the global particle size analysis market performed so far and how will it perform in the coming years?

What are the key regions in the global particle size analysis market?

What has been the impact of COVID-19 on the global particle size analysis market?

Which are the major technologies in the global particle size analysis market?

What are the several application segments in the global particle size analysis market?

What are the various stages in the value chain of the global particle size analysis market?

What are the key driving factors and challenges in the global particle size analysis market?

What is the structure of the global particle size analysis market and who are the key players?

What is the degree of competition in the global particle size analysis market?

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