

Optical Sorter Market Size, Share & Trends Analysis Report By Type (Cameras, NIR Sorters, Hyperspectral Cameras & Combined Sorters), By Platform (Freefall, Belt, Hybrid), By Application (Food & Beverages, Waste Recycling, Mining), By Region, And Segment Forecasts, 2025 - 2033

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Abstracts

The global optical sorter market size was estimated at USD 2,626.7 million in 2024 and is projected to reach USD 5,726.6 million by 2033, growing at a CAGR of 9.1% from 2025 to 2033. The market growth is primarily driven by the increasing demand for automation and precision in sorting processes across industries such as food, recycling, and mining.

As companies prioritize efficiency, waste reduction, and product quality, optical sorting systems using cameras, lasers, and sensors offer real-time, high-speed sorting based on color, shape, size, and composition. Technological advancements, including AI-powered sorting and hyperspectral imaging, are enhancing accuracy and expanding application areas. Developing economies are also investing in modernizing infrastructure, boosting market penetration. Additionally, the recycling industry's shift toward cleaner material recovery is driving strong demand for optical sorters.

Global Optical Sorter Market Report Segmentation

This report forecasts revenue growth at the global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global optical sorter market report based on type, platform, application, and region:

Type Outlook (Revenue, USD Million, 2021 - 2033)

Cameras

Lasers

NIR Sorters

Hyperspectral Cameras & Combined Sorters

Others

Platform Outlook (Revenue, USD Million, 2021 - 2033)

Freefall

Belt

Lane

Hybrid

Application Outlook (Revenue, USD Million, 2021 - 2033)

Food and Beverages

Mining

Pharmaceutical

Waste Recycling

Others

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

France

Italy

Spain

UK

Asia Pacific

China

India

Japan

South Korea

Australia

Latin America

Brazil

Argentina

Middle East and Africa

Saudi Arabia

UAE

South Africa

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