

Global Recycling Optical Sorting Machine Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Recycling Optical Sorting Machine market size was valued at US\$ 864 million in 2025 and is forecast to a readjusted size of US\$ 1562 million by 2032 with a CAGR of 8.8% during review period.

In 2025, global sales of Recycling Optical Sorting Machines were approximately 4,200 units, with an average manufacturer-level selling price of about US\$200,000 per unit. The gross margin of major manufacturers was approximately 42%.

A Recycling Optical Sorting Machine is an industrial sorting system that uses optical imaging and spectroscopic identification technologies to automatically identify, classify, and separate mixed recyclable materials. After materials are evenly fed and spread by the feeding system and enter the detection zone, industrial cameras, near-infrared sensors, or hyperspectral sensors capture information on color, shape, surface characteristics, and material-specific spectral signatures. The control system then identifies the material category based on preset recognition models and separates target materials from the main material stream through high-speed air jets or mechanical diversion mechanisms. The core value of the equipment lies in its ability to perform precise sorting of recyclable materials by material type, color, and category under high-speed continuous conveying conditions, thereby reducing dependence on manual sorting, improving sorting purity and processing efficiency, and providing more stable and cleaner feedstock for downstream recycling processes such as washing, crushing, pelletizing, and remanufacturing. TOMRA's AUTOSORT FLAKE is a representative commercial example. The system combines near-infrared spectroscopy, full-color cameras, and high-speed air-jet ejectors to simultaneously identify plastic material types and colors and automatically separate target materials and contaminants

from plastic flakes at high speed.

Upstream suppliers of Recycling Optical Sorting Machines mainly provide industrial cameras, near-infrared and hyperspectral sensors, light sources, optical lenses, processors and industrial computers, AI algorithms and control software, PLCs, high-speed air valves, compressed-air systems, conveyor belts, motors, and mechanical structural components. Among these, spectroscopic sensors, image-processing systems, and high-speed actuation systems are key components affecting identification accuracy, response speed, and overall equipment performance. Downstream demand mainly comes from the recycling and solid-waste resource recovery industries, covering waste plastics, waste paper, waste glass, waste textiles, scrap metals, mixed recyclables, and other recyclable materials. The equipment is commonly installed in recycling sorting centers, plastic recycling plants, material recovery facilities, and solid-waste resource recovery lines, where it is integrated with crushing, screening, air separation, magnetic separation, eddy-current separation, and downstream washing and pelletizing equipment to form continuous recycling processing systems.

Report Scope

This report is a detailed and comprehensive analysis for global Recycling Optical Sorting Machine market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Recycling Optical Sorting Machine market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Recycling Optical Sorting Machine market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Recycling Optical Sorting Machine market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Recycling Optical Sorting Machine market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Recycling Optical Sorting Machine

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Recycling Optical Sorting Machine market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include TOMRA Systems, STEINERT, Pellenc ST, Sesotec, MSS, National Recovery Technologies, Machinex Industries, BT-Systems, PICVISA Machine Vision Systems, Binder+Co, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Recycling Optical Sorting Machine market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

Market segment by Type

Visible Light Imaging Type

Conventional NIR Spectroscopy Type

Hyperspectral Imaging Type

LIBS Type

Market segment by Sorting Function

Material Sorting Type

Color Sorting Type

Shape Sorting Type

Combined Sorting Type

Market segment by Processing Capacity

?5 t/h

>5–10 t/h

>10 t/h

Market segment by Application

Plastic Recycling

Paper Recycling

Glass Recycling

Textile Recycling

Metal Recycling

Mixed Recyclables

Other

Major players covered

TOMRA Systems

STEINERT

Pellenc ST

Sesotec

MSS

National Recovery Technologies

Machinex Industries

BT-Systems

PICVISA Machine Vision Systems

Binder+Co

Bühler

Satake

Hefei Meyer Optoelectronic Technology

Hefei Taihe Intelligent Technology Group

Anhui Zhongke Optic-electronic Color Sorter Machinery

Anhui Jiexun Optoelectronic Technology

Hefei Angelon Electronics

Hangzhou DataBeyond Technology

Guangzhou Justra Technology

Anhui VSEE Optoelectronic Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Recycling Optical Sorting Machine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Recycling Optical Sorting Machine, with price, sales quantity, revenue, and global market share of Recycling Optical Sorting Machine from 2021 to 2026.

Chapter 3, the Recycling Optical Sorting Machine competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Recycling Optical Sorting Machine breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Recycling Optical Sorting Machine market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Recycling Optical Sorting Machine.

Chapter 14 and 15, to describe Recycling Optical Sorting Machine sales channel, distributors, customers, research findings and conclusion.

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