

Global Recycling Optical Sorting Machine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Recycling Optical Sorting Machine market size is expected to reach \$ 1562 million by 2032, rising at a market growth of 8.8% CAGR during the forecast period (2026-2032).

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 studies the global Recycling Optical Sorting Machine production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Recycling Optical Sorting Machine and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Recycling Optical Sorting Machine that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Recycling Optical Sorting Machine total production and demand, 2021-2032, (Units)

Global Recycling Optical Sorting Machine total production value, 2021-2032, (USD Million)

Global Recycling Optical Sorting Machine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on

production site)

Global Recycling Optical Sorting Machine consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Recycling Optical Sorting Machine domestic production, consumption, key domestic manufacturers and share

Global Recycling Optical Sorting Machine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Recycling Optical Sorting Machine production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Recycling Optical Sorting Machine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Recycling Optical Sorting Machine market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Recycling Optical Sorting Machine market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Recycling Optical Sorting Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Recycling Optical Sorting Machine Market, Segmentation by Type:

Visible Light Imaging Type

Conventional NIR Spectroscopy Type

Hyperspectral Imaging Type

LIBS Type

Global Recycling Optical Sorting Machine Market, Segmentation by Sorting Function:

Material Sorting Type

Color Sorting Type

Shape Sorting Type

Combined Sorting Type

Global Recycling Optical Sorting Machine Market, Segmentation by Processing Capacity:

?5 t/h

>5–10 t/h

>10 t/h

Global Recycling Optical Sorting Machine Market, Segmentation by Application:

Plastic Recycling

Paper Recycling

Glass Recycling

Textile Recycling

Metal Recycling

Mixed Recyclables

Other

Companies Profiled:

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

Key Questions Answered

1. How big is the global Recycling Optical Sorting Machine market?
2. What is the demand of the global Recycling Optical Sorting Machine market?
3. What is the year over year growth of the global Recycling Optical Sorting Machine market?
4. What is the total value of the global Recycling Optical Sorting Machine market?
5. Who are the Major Players in the global Recycling Optical Sorting Machine market?
6. What are the growth factors driving the market demand?

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