

Global AI Color Sorter Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI Color Sorter market size is expected to reach \$ 1383 million by 2032, rising at a market growth of 9.4% CAGR during the forecast period (2026-2032). AI color sorter is a modern device that integrates advanced artificial intelligence technology, high-precision optical sensors, and high-speed data processing systems. Its core components include high-resolution cameras, artificial intelligence algorithm processing units, and sorting devices. During operation, the camera captures images of rapidly moving materials on the conveyor belt, which contain rich visual information such as color, shape, texture, etc. Then, artificial intelligence algorithms perform deep analysis and processing on the collected image data, quickly and accurately identifying various features of the material. Finally, based on the preset screening criteria, the material is judged to meet the requirements. If it does not meet the requirements, the color sorter will quickly activate the sorting device, such as high-speed jet valves or mechanical paddles, to accurately separate it from the material flow.

In 2025, global AI Color Sorter production reached approximately 55.6k units, with an average global market price of around US\$ 12,800 per unit. Demand is supported by automation upgrades in food supply chains, rising labor costs, and stricter quality and safety requirements, which push processors to adopt higher-performance sorting solutions. Growth is also driven by expanding applications beyond basic color separation into defect detection, foreign material removal, and multi-attribute grading, where AI-based classification improves yield and reduces downstream customer complaints.

The industry chain includes upstream optical and mechatronic components such as industrial cameras, lenses, illumination systems (LED), air ejectors/valves, vibratory feeders, computing modules (GPU/NPU/edge AI), and control software. Midstream manufacturers integrate these components into complete sorting platforms, focusing on algorithm training, mechanical reliability, and stable throughput at scale. Downstream

customers include grain mills, food processors, seed companies, nut and snack producers, and recycling operators that require consistent sorting performance at high capacity. Gross margin is typically supported by system-level integration and AI software differentiation, but pricing pressure remains in standardized mid-range equipment where competition is intense and hardware becomes increasingly commoditized.

This report studies the global AI Color Sorter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI Color Sorter 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 AI Color Sorter that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI Color Sorter total production and demand, 2021-2032, (Units)

Global AI Color Sorter total production value, 2021-2032, (USD Million)

Global AI Color Sorter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global AI Color Sorter consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: AI Color Sorter domestic production, consumption, key domestic manufacturers and share

Global AI Color Sorter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global AI Color Sorter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global AI Color Sorter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global AI Color Sorter 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, Buhler (SORTEX), Satake, Hefei Meyer Optoelectronic Technology Inc., Cimbria, Suzhou Satake Manufacturing, Key Technology (Duravant), Hefei Taiho Intelligent Technology Group, DAEWON GSI CO., LTD., Comas Industries, 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 AI Color Sorter market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 AI Color Sorter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI Color Sorter Market, Segmentation by Type:

Chute Type Sorter

Belt Type Sorter

Free-fall Sorter

Others

Global AI Color Sorter Market, Segmentation by Sensing Technology:

RGB Vision Sorter

NIR Sorter

Others

Global AI Color Sorter Market, Segmentation by AI Capability Level:

Rule-based + Basic AI

Deep Learning Defect Detection

Others

Global AI Color Sorter Market, Segmentation by Application:

Grains & Rice

Nuts & Seeds

Tea / Coffee Beans

Plastics Recycling

Others

Companies Profiled:

Tomra

Buhler (SORTEX)

Satake

Hefei Meyer Optoelectronic Technology Inc.

Cimbria

Suzhou Satake Manufacturing

Key Technology (Duravant)

Hefei Taiho Intelligent Technology Group

DAEWON GSI CO., LTD.

Comas Industries

National Recovery Technologies (NRT)

Key Questions Answered:

1. How big is the global AI Color Sorter market?
2. What is the demand of the global AI Color Sorter market?
3. What is the year over year growth of the global AI Color Sorter market?
4. What is the production and production value of the global AI Color Sorter market?
5. Who are the key producers in the global AI Color Sorter market?
6. What are the growth factors driving the market demand?

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