

Global Potato Chip Optical Sorters Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Potato Chip Optical Sorters market size is expected to reach \$ 102 million by 2032, rising at a market growth of 6.4% CAGR during the forecast period (2026-2032).

Potato Chip Optical Sorters are automated food-processing machines designed to inspect and separate raw potato slices, continuously fried potato chips, batch-fried kettle chips and other potato-based crisps within industrial production lines. These systems use visible color cameras, multispectral imaging, laser sensing, near-infrared technologies or hybrid sensor configurations to evaluate each product by color, size, shape, surface structure, moisture-related characteristics and foreign-material signatures. Detected defects may include green discoloration, burnt areas, black spots, white knots, residual peel, clusters, doubles, wet centers, fryer debris and non-food contaminants. Typical equipment consists of a controlled feeding system, conveyor or in-flight inspection section, illumination and sensor modules, image-processing software, pneumatic rejection valves, product collection channels and sanitation-oriented machine structures. The study primarily covers complete optical sorting machines installed after potato slicing and before frying, or after frying and before seasoning or packaging. Product analysis is structured by visible color camera systems, multispectral imaging systems and hybrid multisensor systems, while application analysis focuses on pre-frying raw slice sorting, continuous-fried potato chip final sorting and batch-fried kettle chip final sorting.

Key Findings

Global shipment volume reached approximately 205 units in 2025

Global shipment volume is estimated at approximately 216 units in 2026

Average selling price rises from roughly US\$310,000 to US\$316,000 per unit

Hybrid multisensor systems generate the largest value contribution

Continuous-fried potato chip final sorting remains the largest application

Market Trends

Potato Chip Optical Sorters are evolving from conventional color-removal machines into integrated quality-control platforms. High-end systems increasingly combine RGB cameras with multispectral channels, lasers, short-wave infrared sensing or chemical imaging to detect defects that cannot be distinguished through visible color alone. Artificial intelligence is being incorporated into recipe creation, defect classification and automatic adjustment, while connected software converts sorting equipment into a source of production, quality and upstream-process data. Equipment development is also emphasizing open hygienic structures, stain-resistant belts, shorter washdown cycles, automatic belt tracking and reduced operator intervention. A further structural trend is the shift from a single final inspection point toward dual-stage quality control, with one sorter inspecting raw potato slices before frying and another checking finished chips before seasoning or packaging. These changes increase the value of sensor systems, software and application engineering within the total equipment package.

Market Dynamics

Drivers

Demand is primarily driven by the need to maintain consistent chip color, texture and appearance at higher production speeds while reducing dependence on manual inspection. Large processors are using optical sorting to improve foreign-material control, reduce customer complaints and protect branded product specifications across different potato varieties and seasonal raw-material conditions. Yield improvement is another major economic driver because advanced systems are designed to remove defective pieces while limiting the rejection of acceptable product. Replacement of aging camera sorters, expansion of industrial snack production and the introduction of automated production lines in emerging markets collectively support new equipment

demand.

Restraints

The principal restraint is the high initial investment required for premium systems equipped with multiple cameras, lasers, infrared sensors, data platforms and integrated product-handling modules. Smaller potato chip manufacturers may find the payback period unattractive when production volumes are limited or manual labor remains inexpensive. Actual performance also depends on controlled product presentation, stable compressed-air supply, suitable lighting conditions and regular cleaning of belts, sensor windows and rejection components. Retrofitting a sorter into an existing line may require additional conveyors, product spreaders, structural modifications and production downtime, raising the effective project cost beyond the price of the sorting machine itself.

Opportunities

The largest opportunities are associated with automation upgrades at regional processors that currently rely on manual inspection or basic color sorting. China, India, Southeast Asia, Latin America and parts of the Middle East offer room for locally manufactured and mid-priced systems with simpler operation and lower service costs. Premium suppliers can expand through dual-stage inspection, multispectral upgrades, production-data analytics and replacement of older machines that cannot reliably identify structural, moisture-related or composition-based defects. Modular sensor packages also create opportunities to serve customers at different price levels while allowing subsequent upgrades as production volumes and food-safety requirements increase.

Challenges

Suppliers must demonstrate that higher detection sensitivity produces measurable economic benefits without creating excessive false rejects and product loss. Fried potato chips are thin, irregular, oily, reflective and easily broken, making stable feeding and repeatable imaging more difficult than for many granular foods. Equipment must sustain accuracy during long production runs despite oil deposits, seasoning residues and changing chip colors. Manufacturers also face the challenge of providing application testing, commissioning, operator training, spare parts and rapid technical

support across geographically dispersed customer locations. Competition from lower-priced camera systems increases pressure on premium suppliers to prove the value of advanced sensing, sanitation, uptime and lifecycle service.

Industry Chain Analysis

The upstream segment supplies industrial cameras, multispectral and infrared sensors, lasers, LED illumination, image processors, control electronics, compressed-air components, high-speed ejector valves, food-grade conveyor belts, stainless-steel structures and industrial software. Sensor performance, processing speed and valve response determine the minimum detectable defect, rejection accuracy and maximum line capacity. Midstream Potato Chip Optical Sorter manufacturers integrate these components into complete machines, develop inspection algorithms and product recipes, conduct application trials and provide feeding, discharge, installation and commissioning solutions. The downstream segment consists of multinational snack groups, regional potato chip manufacturers, kettle-chip processors, formed-crisp producers and contract food manufacturers.

Value creation is concentrated in application engineering rather than mechanical assembly alone. Premium pricing reflects sensor configuration, defect-recognition capability, product recovery, hygienic design, machine availability and the supplier's ability to support installations globally. Cameras, lasers and infrared modules form a significant share of direct equipment cost, while software, application expertise and aftermarket service support higher margins over the equipment lifecycle. Conveyor suppliers and production-line integrators may participate in a project, but the optical sorter manufacturer retains responsibility for inspection performance, rejection accuracy and product-quality results.

Segment Insights

Visible Color Camera Sorters account for a substantial share of unit shipments because they offer a lower acquisition cost and can address common visible defects such as burnt chips, green discoloration, black spots and shape abnormalities. This segment is particularly relevant to smaller processors and price-sensitive markets. Multispectral Imaging Sorters occupy the middle and upper portions of the market by increasing the amount of information collected from each product without necessarily requiring a full suite of separate sensors.

Hybrid Multisensor Sorters represent the largest value segment and the principal technology-upgrade direction. Their combination of cameras with laser, infrared or chemical imaging enables detection of foreign material, moisture-related defects and compositional differences that conventional color cameras may miss. By application, final sorting of continuously fried potato chips remains the largest installed category because it is the last quality-control point before seasoning or packaging. Pre-frying raw slice inspection and production lines using two sorting points are expected to expand faster as processors seek to prevent defective raw slices from consuming frying oil, energy and downstream production capacity.

Downstream Market Opportunities

Large multinational snack manufacturers provide recurring demand through equipment replacement, capacity expansion and standardization of quality-control systems across multiple plants. Regional brands and contract manufacturers represent a broader but more price-sensitive opportunity, especially where rising labor costs and retailer food-safety requirements are accelerating automation. Kettle-style chips create specialized demand because their thickness, curvature and tendency to cluster require more sophisticated product presentation and defect classification. Additional opportunities arise from formed potato crisps and mixed vegetable-chip lines, although equipment configuration must be adapted to different product shapes, surface textures and seasoning characteristics.

Regional Insights

North America remains a major high-value demand market due to its large industrial potato-processing base, high level of production-line automation and recurring replacement requirements. USDA data indicate that US processors used approximately 55.8 million cwt of potatoes for chips and shoestring products in the 2024 season, supporting a substantial installed base of specialized processing and inspection equipment. Europe is the principal technology and supplier cluster, with multiple established manufacturers offering camera, laser, multispectral and chemical-imaging platforms. These markets place strong emphasis on yield recovery, sanitation, labor reduction and lifecycle service.

Asia-Pacific is the main source of incremental unit demand. China has developed a

broad manufacturing base for belt-type camera sorters and is increasingly moving toward artificial-intelligence-enabled food inspection, while India is developing locally manufactured systems for regional processors. Southeast Asia offers demand from new snack production capacity but remains dependent largely on imported machines, regional distributors and production-line integrators. Japan is a mature specialist market with established domestic sorting expertise, whereas South Korea and Taiwan are primarily served through imported optical sorting systems and integrated food-processing lines.

Competitive Landscape Analysis

The competitive landscape combines global high-end food-sorting groups, specialized European and Japanese technology suppliers and cost-oriented Asian manufacturers. The confirmed core supplier base comprises eleven companies. TOMRA Systems, Key Technology, OPTIMUM, Insort, Raytec Vision and Protec compete principally through advanced sensing, application knowledge, throughput, hygienic engineering and international service coverage. ANZAI MANUFACTURING has a specialized position in Japanese food sorting, while Genn Controls India and the confirmed Chinese manufacturers compete through localized production, flexible configuration and lower equipment costs. Competitive differentiation is shifting from basic color detection toward multispectral sensing, chemical or infrared analysis, artificial-intelligence classification, yield optimization and connected production data. No single competitive ranking applies across all customer groups because multinational processors prioritize global service and validated performance, while smaller regional manufacturers place greater weight on acquisition cost, operating simplicity and local technical support.

Report Scope

This report studies the global Potato Chip Optical Sorters production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Potato Chip Optical Sorters 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 Potato Chip Optical Sorters that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Potato Chip Optical Sorters total production and demand, 2021-2032, (Units)

Global Potato Chip Optical Sorters total production value, 2021-2032, (USD Million)

Global Potato Chip Optical Sorters production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Potato Chip Optical Sorters consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Potato Chip Optical Sorters domestic production, consumption, key domestic manufacturers and share

Global Potato Chip Optical Sorters production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Potato Chip Optical Sorters production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Potato Chip Optical Sorters production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Potato Chip Optical Sorters 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 ASA, Key Technology, Inc., OPTIMUM nv, Insort GmbH, Raytec Vision S.p.A., Protec s.r.l., ANZAI MANUFACTURING CO., LTD., Genn Controls India Private Limited, Shen Zhen Wesort Optoelectronic Co., Ltd., Hefei Growking Optoelectronic Technology Co., Ltd., 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 Potato Chip Optical Sorters 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 Potato Chip Optical Sorters Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Potato Chip Optical Sorters Market, Segmentation by Type:

Visible Color Camera Sorters

Multispectral Imaging Sorters

Hybrid Multisensor Sorters

Other

Global Potato Chip Optical Sorters Market, Segmentation by Inspection Architecture:

On-belt Inspection Sorters

Belt-launched In-flight Sorters

Other

Global Potato Chip Optical Sorters Market, Segmentation by Application:

Raw Potato Slice Sorting Before Frying

Continuous-fried Potato Chip Final Sorting

Batch-fried Kettle Chip Final Sorting

Other

Companies Profiled:

TOMRA Systems ASA

Key Technology, Inc.

OPTIMUM nv

Insort GmbH

Raytec Vision S.p.A.

Protec s.r.l.

ANZAI MANUFACTURING CO., LTD.

Genn Controls India Private Limited

Shen Zhen Wesort Optoelectronic Co., Ltd.

Hefei Growking Optoelectronic Technology Co., Ltd.

Anhui Wenyao Intelligent Photoelectronic Technology Co., Ltd.

Key Questions Answered

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

Contents

1 SUPPLY SUMMARY

- 1.1 Potato Chip Optical Sorters Introduction
- 1.2 World Potato Chip Optical Sorters Supply & Forecast
 - 1.2.1 World Potato Chip Optical Sorters Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Potato Chip Optical Sorters Production (2021-2032)
 - 1.2.3 World Potato Chip Optical Sorters Pricing Trends (2021-2032)
- 1.3 World Potato Chip Optical Sorters Production by Region (Based on Production Site)
 - 1.3.1 World Potato Chip Optical Sorters Production Value by Region (2021-2032)
 - 1.3.2 World Potato Chip Optical Sorters Production by Region (2021-2032)
 - 1.3.3 World Potato Chip Optical Sorters Average Price by Region (2021-2032)
 - 1.3.4 North America Potato Chip Optical Sorters Production (2021-2032)
 - 1.3.5 Europe Potato Chip Optical Sorters Production (2021-2032)
 - 1.3.6 China Potato Chip Optical Sorters Production (2021-2032)
 - 1.3.7 Japan Potato Chip Optical Sorters Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Potato Chip Optical Sorters Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Potato Chip Optical Sorters Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Potato Chip Optical Sorters Demand (2021-2032)
- 2.2 World Potato Chip Optical Sorters Consumption by Region
 - 2.2.1 World Potato Chip Optical Sorters Consumption by Region (2021-2026)
 - 2.2.2 World Potato Chip Optical Sorters Consumption Forecast by Region (2027-2032)
- 2.3 United States Potato Chip Optical Sorters Consumption (2021-2032)
- 2.4 China Potato Chip Optical Sorters Consumption (2021-2032)
- 2.5 Europe Potato Chip Optical Sorters Consumption (2021-2032)
- 2.6 Japan Potato Chip Optical Sorters Consumption (2021-2032)
- 2.7 South Korea Potato Chip Optical Sorters Consumption (2021-2032)
- 2.8 ASEAN Potato Chip Optical Sorters Consumption (2021-2032)
- 2.9 India Potato Chip Optical Sorters Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Potato Chip Optical Sorters Production Value by Manufacturer (2021-2026)

- 3.2 World Potato Chip Optical Sorters Production by Manufacturer (2021-2026)
- 3.3 World Potato Chip Optical Sorters Average Price by Manufacturer (2021-2026)
- 3.4 Potato Chip Optical Sorters Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Potato Chip Optical Sorters Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Potato Chip Optical Sorters in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Potato Chip Optical Sorters in 2025
- 3.6 Potato Chip Optical Sorters Market: Overall Company Footprint Analysis
 - 3.6.1 Potato Chip Optical Sorters Market: Region Footprint
 - 3.6.2 Potato Chip Optical Sorters Market: Company Product Type Footprint
 - 3.6.3 Potato Chip Optical Sorters Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Potato Chip Optical Sorters Production Value Comparison
 - 4.1.1 United States VS China: Potato Chip Optical Sorters Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Potato Chip Optical Sorters Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Potato Chip Optical Sorters Production Comparison
 - 4.2.1 United States VS China: Potato Chip Optical Sorters Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Potato Chip Optical Sorters Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Potato Chip Optical Sorters Consumption Comparison
 - 4.3.1 United States VS China: Potato Chip Optical Sorters Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Potato Chip Optical Sorters Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Potato Chip Optical Sorters Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Potato Chip Optical Sorters Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Potato Chip Optical Sorters Production Value (2021-2026)

4.4.3 United States Based Manufacturers Potato Chip Optical Sorters Production (2021-2026)

4.5 China Based Potato Chip Optical Sorters Manufacturers and Market Share

4.5.1 China Based Potato Chip Optical Sorters Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Potato Chip Optical Sorters Production Value (2021-2026)

4.5.3 China Based Manufacturers Potato Chip Optical Sorters Production (2021-2026)

4.6 Rest of World Based Potato Chip Optical Sorters Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Potato Chip Optical Sorters Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Potato Chip Optical Sorters Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Potato Chip Optical Sorters Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Potato Chip Optical Sorters Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Visible Color Camera Sorters

5.2.2 Multispectral Imaging Sorters

5.2.3 Hybrid Multisensor Sorters

5.2.4 Other

5.3 Market Segment by Type

5.3.1 World Potato Chip Optical Sorters Production by Type (2021-2032)

5.3.2 World Potato Chip Optical Sorters Production Value by Type (2021-2032)

5.3.3 World Potato Chip Optical Sorters Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY INSPECTION ARCHITECTURE

6.1 World Potato Chip Optical Sorters Market Size Overview by Inspection Architecture: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Inspection Architecture

6.2.1 On-belt Inspection Sorters

6.2.2 Belt-launched In-flight Sorters

6.2.3 Other

6.3 Market Segment by Inspection Architecture

6.3.1 World Potato Chip Optical Sorters Production by Inspection Architecture
(2021-2032)

6.3.2 World Potato Chip Optical Sorters Production Value by Inspection Architecture
(2021-2032)

6.3.3 World Potato Chip Optical Sorters Average Price by Inspection Architecture
(2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Potato Chip Optical Sorters Market Size Overview by Application: 2021 VS
2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Raw Potato Slice Sorting Before Frying

7.2.2 Continuous-fried Potato Chip Final Sorting

7.2.3 Batch-fried Kettle Chip Final Sorting

7.2.4 Other

7.3 Market Segment by Application

7.3.1 World Potato Chip Optical Sorters Production by Application (2021-2032)

7.3.2 World Potato Chip Optical Sorters Production Value by Application (2021-2032)

7.3.3 World Potato Chip Optical Sorters Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 TOMRA Systems ASA

8.1.1 TOMRA Systems ASA Details

8.1.2 TOMRA Systems ASA Major Business

8.1.3 TOMRA Systems ASA Potato Chip Optical Sorters Product and Services

8.1.4 TOMRA Systems ASA Potato Chip Optical Sorters Production, Price, Value,
Gross Margin and Market Share (2021-2026)

8.1.5 TOMRA Systems ASA Recent Developments/Updates

8.1.6 TOMRA Systems ASA Competitive Strengths & Weaknesses

8.2 Key Technology, Inc.

8.2.1 Key Technology, Inc. Details

8.2.2 Key Technology, Inc. Major Business

8.2.3 Key Technology, Inc. Potato Chip Optical Sorters Product and Services

8.2.4 Key Technology, Inc. Potato Chip Optical Sorters Production, Price, Value,

Gross Margin and Market Share (2021-2026)

8.2.5 Key Technology, Inc. Recent Developments/Updates

8.2.6 Key Technology, Inc. Competitive Strengths & Weaknesses

8.3 OPTIMUM nv

8.3.1 OPTIMUM nv Details

8.3.2 OPTIMUM nv Major Business

8.3.3 OPTIMUM nv Potato Chip Optical Sorters Product and Services

8.3.4 OPTIMUM nv Potato Chip Optical Sorters Production, Price, Value, Gross

Margin and Market Share (2021-2026)

8.3.5 OPTIMUM nv Recent Developments/Updates

8.3.6 OPTIMUM nv Competitive Strengths & Weaknesses

8.4 Insort GmbH

8.4.1 Insort GmbH Details

8.4.2 Insort GmbH Major Business

8.4.3 Insort GmbH Potato Chip Optical Sorters Product and Services

8.4.4 Insort GmbH Potato Chip Optical Sorters Production, Price, Value, Gross Margin

and Market Share (2021-2026)

8.4.5 Insort GmbH Recent Developments/Updates

8.4.6 Insort GmbH Competitive Strengths & Weaknesses

8.5 Raytec Vision S.p.A.

8.5.1 Raytec Vision S.p.A. Details

8.5.2 Raytec Vision S.p.A. Major Business

8.5.3 Raytec Vision S.p.A. Potato Chip Optical Sorters Product and Services

8.5.4 Raytec Vision S.p.A. Potato Chip Optical Sorters Production, Price, Value, Gross

Margin and Market Share (2021-2026)

8.5.5 Raytec Vision S.p.A. Recent Developments/Updates

8.5.6 Raytec Vision S.p.A. Competitive Strengths & Weaknesses

8.6 Protec s.r.l.

8.6.1 Protec s.r.l. Details

8.6.2 Protec s.r.l. Major Business

8.6.3 Protec s.r.l. Potato Chip Optical Sorters Product and Services

8.6.4 Protec s.r.l. Potato Chip Optical Sorters Production, Price, Value, Gross Margin

and Market Share (2021-2026)

8.6.5 Protec s.r.l. Recent Developments/Updates

8.6.6 Protec s.r.l. Competitive Strengths & Weaknesses

8.7 ANZAI MANUFACTURING CO., LTD.

8.7.1 ANZAI MANUFACTURING CO., LTD. Details

8.7.2 ANZAI MANUFACTURING CO., LTD. Major Business

8.7.3 ANZAI MANUFACTURING CO., LTD. Potato Chip Optical Sorters Product and

Services

8.7.4 ANZAI MANUFACTURING CO., LTD. Potato Chip Optical Sorters Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.7.5 ANZAI MANUFACTURING CO., LTD. Recent Developments/Updates

8.7.6 ANZAI MANUFACTURING CO., LTD. Competitive Strengths & Weaknesses

8.8 Genn Controls India Private Limited

8.8.1 Genn Controls India Private Limited Details

8.8.2 Genn Controls India Private Limited Major Business

8.8.3 Genn Controls India Private Limited Potato Chip Optical Sorters Product and Services

8.8.4 Genn Controls India Private Limited Potato Chip Optical Sorters Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.8.5 Genn Controls India Private Limited Recent Developments/Updates

8.8.6 Genn Controls India Private Limited Competitive Strengths & Weaknesses

8.9 Shen Zhen Wesort Optoelectronic Co., Ltd.

8.9.1 Shen Zhen Wesort Optoelectronic Co., Ltd. Details

8.9.2 Shen Zhen Wesort Optoelectronic Co., Ltd. Major Business

8.9.3 Shen Zhen Wesort Optoelectronic Co., Ltd. Potato Chip Optical Sorters Product and Services

8.9.4 Shen Zhen Wesort Optoelectronic Co., Ltd. Potato Chip Optical Sorters Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.9.5 Shen Zhen Wesort Optoelectronic Co., Ltd. Recent Developments/Updates

8.9.6 Shen Zhen Wesort Optoelectronic Co., Ltd. Competitive Strengths & Weaknesses

8.10 Hefei Growking Optoelectronic Technology Co., Ltd.

8.10.1 Hefei Growking Optoelectronic Technology Co., Ltd. Details

8.10.2 Hefei Growking Optoelectronic Technology Co., Ltd. Major Business

8.10.3 Hefei Growking Optoelectronic Technology Co., Ltd. Potato Chip Optical Sorters Product and Services

8.10.4 Hefei Growking Optoelectronic Technology Co., Ltd. Potato Chip Optical Sorters Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.10.5 Hefei Growking Optoelectronic Technology Co., Ltd. Recent Developments/Updates

8.10.6 Hefei Growking Optoelectronic Technology Co., Ltd. Competitive Strengths & Weaknesses

8.11 Anhui Wen Yao Intelligent Photoelectronic Technology Co., Ltd.

8.11.1 Anhui Wen Yao Intelligent Photoelectronic Technology Co., Ltd. Details

8.11.2 Anhui Wen Yao Intelligent Photoelectronic Technology Co., Ltd. Major Business

8.11.3 Anhui Wen Yao Intelligent Photoelectronic Technology Co., Ltd. Potato Chip

Optical Sorters Product and Services

8.11.4 Anhui Wenyao Intelligent Photoelectronic Technology Co., Ltd. Potato Chip Optical Sorters Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.11.5 Anhui Wenyao Intelligent Photoelectronic Technology Co., Ltd. Recent Developments/Updates

8.11.6 Anhui Wenyao Intelligent Photoelectronic Technology Co., Ltd. Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 Potato Chip Optical Sorters Industry Chain

9.2 Potato Chip Optical Sorters Upstream Analysis

9.2.1 Potato Chip Optical Sorters Core Raw Materials

9.2.2 Main Manufacturers of Potato Chip Optical Sorters Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 Potato Chip Optical Sorters Production Mode

9.6 Potato Chip Optical Sorters Procurement Model

9.7 Potato Chip Optical Sorters Industry Sales Model and Sales Channels

9.7.1 Potato Chip Optical Sorters Sales Model

9.7.2 Potato Chip Optical Sorters Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Potato Chip Optical Sorters Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Potato Chip Optical Sorters Production Value by Region (2021-2026) & (USD Million)

Table 3. World Potato Chip Optical Sorters Production Value by Region (2027-2032) & (USD Million)

Table 4. World Potato Chip Optical Sorters Production Value Market Share by Region (2021-2026)

Table 5. World Potato Chip Optical Sorters Production Value Market Share by Region (2027-2032)

Table 6. World Potato Chip Optical Sorters Production by Region (2021-2026) & (Units)

Table 7. World Potato Chip Optical Sorters Production by Region (2027-2032) & (Units)

Table 8. World Potato Chip Optical Sorters Production Market Share by Region (2021-2026)

Table 9. World Potato Chip Optical Sorters Production Market Share by Region (2027-2032)

Table 10. World Potato Chip Optical Sorters Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Potato Chip Optical Sorters Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Potato Chip Optical Sorters Major Market Trends

Table 13. World Potato Chip Optical Sorters Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Potato Chip Optical Sorters Consumption by Region (2021-2026) & (Units)

Table 15. World Potato Chip Optical Sorters Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Potato Chip Optical Sorters Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Potato Chip Optical Sorters Producers in 2025

Table 18. World Potato Chip Optical Sorters Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Potato Chip Optical Sorters Producers in 2025

Table 20. World Potato Chip Optical Sorters Average Price by Manufacturer (2021-2026) & (US\$/Unit)
Table 21. Global Potato Chip Optical Sorters Company Evaluation Quadrant
Table 22. World Potato Chip Optical Sorters Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and Potato Chip Optical Sorters Production Site of Key Manufacturer
Table 24. Potato Chip Optical Sorters Market: Company Product Type Footprint
Table 25. Potato Chip Optical Sorters Market: Company Product Application Footprint
Table 26. Potato Chip Optical Sorters Competitive Factors
Table 27. Potato Chip Optical Sorters New Entrant and Capacity Expansion Plans
Table 28. Potato Chip Optical Sorters Mergers & Acquisitions Activity
Table 29. United States VS China Potato Chip Optical Sorters Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Potato Chip Optical Sorters Production Comparison, (2021 & 2025 & 2032) & (Units)
Table 31. United States VS China Potato Chip Optical Sorters Consumption Comparison, (2021 & 2025 & 2032) & (Units)
Table 32. United States Based Potato Chip Optical Sorters Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Potato Chip Optical Sorters Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Potato Chip Optical Sorters Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Potato Chip Optical Sorters Production (2021-2026) & (Units)
Table 36. United States Based Manufacturers Potato Chip Optical Sorters Production Market Share (2021-2026)
Table 37. China Based Potato Chip Optical Sorters Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Potato Chip Optical Sorters Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Potato Chip Optical Sorters Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Potato Chip Optical Sorters Production, (2021-2026) & (Units)
Table 41. China Based Manufacturers Potato Chip Optical Sorters Production Market Share (2021-2026)
Table 42. Rest of World Based Potato Chip Optical Sorters Manufacturers,

Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Potato Chip Optical Sorters Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Potato Chip Optical Sorters Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Potato Chip Optical Sorters Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Potato Chip Optical Sorters Production Market Share (2021-2026)

Table 47. World Potato Chip Optical Sorters Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Potato Chip Optical Sorters Production by Type (2021-2026) & (Units)

Table 49. World Potato Chip Optical Sorters Production by Type (2027-2032) & (Units)

Table 50. World Potato Chip Optical Sorters Production Value by Type (2021-2026) & (USD Million)

Table 51. World Potato Chip Optical Sorters Production Value by Type (2027-2032) & (USD Million)

Table 52. World Potato Chip Optical Sorters Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Potato Chip Optical Sorters Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Potato Chip Optical Sorters Production Value by Inspection Architecture, (USD Million), 2021 & 2025 & 2032

Table 55. World Potato Chip Optical Sorters Production by Inspection Architecture (2021-2026) & (Units)

Table 56. World Potato Chip Optical Sorters Production by Inspection Architecture (2027-2032) & (Units)

Table 57. World Potato Chip Optical Sorters Production Value by Inspection Architecture (2021-2026) & (USD Million)

Table 58. World Potato Chip Optical Sorters Production Value by Inspection Architecture (2027-2032) & (USD Million)

Table 59. World Potato Chip Optical Sorters Average Price by Inspection Architecture (2021-2026) & (US\$/Unit)

Table 60. World Potato Chip Optical Sorters Average Price by Inspection Architecture (2027-2032) & (US\$/Unit)

Table 61. World Potato Chip Optical Sorters Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Potato Chip Optical Sorters Production by Application (2021-2026) & (Units)

Table 63. World Potato Chip Optical Sorters Production by Application (2027-2032) & (Units)

Table 64. World Potato Chip Optical Sorters Production Value by Application (2021-2026) & (USD Million)

Table 65. World Potato Chip Optical Sorters Production Value by Application (2027-2032) & (USD Million)

Table 66. World Potato Chip Optical Sorters Average Price by Application (2021-2026) & (US\$/Unit)

Table 67. World Potato Chip Optical Sorters Average Price by Application (2027-2032) & (US\$/Unit)

Table 68. TOMRA Systems ASA Basic Information, Manufacturing Base and Competitors

Table 69. TOMRA Systems ASA Major Business

Table 70. TOMRA Systems ASA Potato Chip Optical Sorters Product and Services

Table 71. TOMRA Systems ASA Potato Chip Optical Sorters Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. TOMRA Systems ASA Recent Developments/Updates

Table 73. TOMRA Systems ASA Competitive Strengths & Weaknesses

Table 74. Key Technology, Inc. Basic Information, Manufacturing Base and Competitors

Table 75. Key Technology, Inc. Major Business

Table 76. Key Technology, Inc. Potato Chip Optical Sorters Product and Services

Table 77. Key Technology, Inc. Potato Chip Optical Sorters Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Key Technology, Inc. Recent Developments/Updates

Table 79. Key Technology, Inc. Competitive Strengths & Weaknesses

Table 80. OPTIMUM nv Basic Information, Manufacturing Base and Competitors

Table 81. OPTIMUM nv Major Business

Table 82. OPTIMUM nv Potato Chip Optical Sorters Product and Services

Table 83. OPTIMUM nv Potato Chip Optical Sorters Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. OPTIMUM nv Recent Developments/Updates

Table 85. OPTIMUM nv Competitive Strengths & Weaknesses

Table 86. Insort GmbH Basic Information, Manufacturing Base and Competitors

Table 87. Insort GmbH Major Business

Table 88. Insort GmbH Potato Chip Optical Sorters Product and Services

Table 89. Insort GmbH Potato Chip Optical Sorters Production (Units), Price (US\$/Unit),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Insort GmbH Recent Developments/Updates

Table 91. Insort GmbH Competitive Strengths & Weaknesses

Table 92. Raytec Vision S.p.A. Basic Information, Manufacturing Base and Competitors

Table 93. Raytec Vision S.p.A. Major Business

Table 94. Raytec Vision S.p.A. Potato Chip Optical Sorters Product and Services

Table 95. Raytec Vision S.p.A. Potato Chip Optical Sorters Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. Raytec Vision S.p.A. Recent Developments/Updates

Table 97. Raytec Vision S.p.A. Competitive Strengths & Weaknesses

Table 98. Protec s.r.l. Basic Information, Manufacturing Base and Competitors

Table 99. Protec s.r.l. Major Business

Table 100. Protec s.r.l. Potato Chip Optical Sorters Product and Services

Table 101. Protec s.r.l. Potato Chip Optical Sorters Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. Protec s.r.l. Recent Developments/Updates

Table 103. Protec s.r.l. Competitive Strengths & Weaknesses

Table 104. ANZAI MANUFACTURING CO., LTD. Basic Information, Manufacturing Base and Competitors

Table 105. ANZAI MANUFACTURING CO., LTD. Major Business

Table 106. ANZAI MANUFACTURING CO., LTD. Potato Chip Optical Sorters Product and Services

Table 107. ANZAI MANUFACTURING CO., LTD. Potato Chip Optical Sorters Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 108. ANZAI MANUFACTURING CO., LTD. Recent Developments/Updates

Table 109. ANZAI MANUFACTURING CO., LTD. Competitive Strengths & Weaknesses

Table 110. Genn Controls India Private Limited Basic Information, Manufacturing Base and Competitors

Table 111. Genn Controls India Private Limited Major Business

Table 112. Genn Controls India Private Limited Potato Chip Optical Sorters Product and Services

Table 113. Genn Controls India Private Limited Potato Chip Optical Sorters Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. Genn Controls India Private Limited Recent Developments/Updates

Table 115. Genn Controls India Private Limited Competitive Strengths & Weaknesses

Table 116. Shen Zhen Wesort Optoelectronic Co., Ltd. Basic Information,

Manufacturing Base and Competitors

Table 117. Shen Zhen Wesort Optoelectronic Co., Ltd. Major Business

Table 118. Shen Zhen Wesort Optoelectronic Co., Ltd. Potato Chip Optical Sorters Product and Services

Table 119. Shen Zhen Wesort Optoelectronic Co., Ltd. Potato Chip Optical Sorters Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. Shen Zhen Wesort Optoelectronic Co., Ltd. Recent Developments/Updates

Table 121. Shen Zhen Wesort Optoelectronic Co., Ltd. Competitive Strengths & Weaknesses

Table 122. Hefei Growking Optoelectronic Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 123. Hefei Growking Optoelectronic Technology Co., Ltd. Major Business

Table 124. Hefei Growking Optoelectronic Technology Co., Ltd. Potato Chip Optical Sorters Product and Services

Table 125. Hefei Growking Optoelectronic Technology Co., Ltd. Potato Chip Optical Sorters Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. Hefei Growking Optoelectronic Technology Co., Ltd. Recent Developments/Updates

Table 127. Hefei Growking Optoelectronic Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 128. Anhui Wen Yao Intelligent Photoelectronic Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 129. Anhui Wen Yao Intelligent Photoelectronic Technology Co., Ltd. Major Business

Table 130. Anhui Wen Yao Intelligent Photoelectronic Technology Co., Ltd. Potato Chip Optical Sorters Product and Services

Table 131. Anhui Wen Yao Intelligent Photoelectronic Technology Co., Ltd. Potato Chip Optical Sorters Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. Anhui Wen Yao Intelligent Photoelectronic Technology Co., Ltd. Recent Developments/Updates

Table 133. Anhui Wen Yao Intelligent Photoelectronic Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 134. Global Key Players of Potato Chip Optical Sorters Upstream (Raw Materials)

Table 135. Global Potato Chip Optical Sorters Typical Customers

Table 136. Potato Chip Optical Sorters Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Potato Chip Optical Sorters Picture

Figure 2. World Potato Chip Optical Sorters Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Potato Chip Optical Sorters Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Potato Chip Optical Sorters Production (2021-2032) & (Units)

Figure 5. World Potato Chip Optical Sorters Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Potato Chip Optical Sorters Production Value Market Share by Region (2021-2032)

Figure 7. World Potato Chip Optical Sorters Production Market Share by Region (2021-2032)

Figure 8. North America Potato Chip Optical Sorters Production (2021-2032) & (Units)

Figure 9. Europe Potato Chip Optical Sorters Production (2021-2032) & (Units)

Figure 10. China Potato Chip Optical Sorters Production (2021-2032) & (Units)

Figure 11. Japan Potato Chip Optical Sorters Production (2021-2032) & (Units)

Figure 12. Potato Chip Optical Sorters Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Potato Chip Optical Sorters Consumption (2021-2032) & (Units)

Figure 15. World Potato Chip Optical Sorters Consumption Market Share by Region (2021-2032)

Figure 16. United States Potato Chip Optical Sorters Consumption (2021-2032) & (Units)

Figure 17. China Potato Chip Optical Sorters Consumption (2021-2032) & (Units)

Figure 18. Europe Potato Chip Optical Sorters Consumption (2021-2032) & (Units)

Figure 19. Japan Potato Chip Optical Sorters Consumption (2021-2032) & (Units)

Figure 20. South Korea Potato Chip Optical Sorters Consumption (2021-2032) & (Units)

Figure 21. ASEAN Potato Chip Optical Sorters Consumption (2021-2032) & (Units)

Figure 22. India Potato Chip Optical Sorters Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Potato Chip Optical Sorters by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Potato Chip Optical Sorters Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Potato Chip Optical Sorters Markets in 2025

Figure 26. United States VS China: Potato Chip Optical Sorters Production Value

Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Potato Chip Optical Sorters Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Potato Chip Optical Sorters Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Potato Chip Optical Sorters Production Market Share 2025

Figure 30. China Based Manufacturers Potato Chip Optical Sorters Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Potato Chip Optical Sorters Production Market Share 2025

Figure 32. World Potato Chip Optical Sorters Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Potato Chip Optical Sorters Production Value Market Share by Type in 2025

Figure 34. Visible Color Camera Sorters

Figure 35. Multispectral Imaging Sorters

Figure 36. Hybrid Multisensor Sorters

Figure 37. Other

Figure 38. World Potato Chip Optical Sorters Production Market Share by Type (2021-2032)

Figure 39. World Potato Chip Optical Sorters Production Value Market Share by Type (2021-2032)

Figure 40. World Potato Chip Optical Sorters Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World Potato Chip Optical Sorters Production Value by Inspection Architecture, (USD Million), 2021 & 2025 & 2032

Figure 42. World Potato Chip Optical Sorters Production Value Market Share by Inspection Architecture in 2025

Figure 43. On-belt Inspection Sorters

Figure 44. Belt-launched In-flight Sorters

Figure 45. Other

Figure 46. World Potato Chip Optical Sorters Production Market Share by Inspection Architecture (2021-2032)

Figure 47. World Potato Chip Optical Sorters Production Value Market Share by Inspection Architecture (2021-2032)

Figure 48. World Potato Chip Optical Sorters Average Price by Inspection Architecture (2021-2032) & (US\$/Unit)

Figure 49. World Potato Chip Optical Sorters Production Value by Application, (USD

Million), 2021 & 2025 & 2032

Figure 50. World Potato Chip Optical Sorters Production Value Market Share by Application in 2025

Figure 51. Raw Potato Slice Sorting Before Frying

Figure 52. Continuous-fried Potato Chip Final Sorting

Figure 53. Batch-fried Kettle Chip Final Sorting

Figure 54. Other

Figure 55. World Potato Chip Optical Sorters Production Market Share by Application (2021-2032)

Figure 56. World Potato Chip Optical Sorters Production Value Market Share by Application (2021-2032)

Figure 57. World Potato Chip Optical Sorters Average Price by Application (2021-2032) & (US\$/Unit)

Figure 58. Potato Chip Optical Sorters Industry Chain

Figure 59. Potato Chip Optical Sorters Procurement Model

Figure 60. Potato Chip Optical Sorters Sales Model

Figure 61. Potato Chip Optical Sorters Sales Channels, Direct Sales, and Distribution

Figure 62. Methodology

Figure 63. Research Process and Data Source

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