

Global X-Ray Transmission Mining Sorters Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global X-Ray Transmission Mining Sorters market size is expected to reach \$ 331 million by 2032, rising at a market growth of 9.9% CAGR during the forecast period (2026-2032).

X-Ray Transmission Mining Sorter is a sensor-based sorting system used in mining and mineral processing to continuously inspect discrete ore particles using X-ray transmission technology. It measures differences in X-ray attenuation as radiation passes through individual particles and uses the resulting atomic-density information, internal high-density mineral distribution and transmission image features to identify and classify each particle. The machine generally integrates an ore feeding and conveying system, X-ray source, detector array, image acquisition and data-processing system, sorting control system and high-speed ejection mechanism. Based on predefined sorting criteria, individual particles are classified in real time and directed into designated product or reject streams, typically using compressed-air ejection, enabling waste-rock rejection, low-grade ore pre-concentration, feed-grade upgrading or valuable-mineral recovery before downstream processes such as grinding, flotation and leaching. Because XRT sensing evaluates internal X-ray transmission and absorption characteristics rather than relying primarily on surface appearance, it is comparatively insensitive to surface color, dust and contamination and is particularly suitable for ores in which valuable minerals and gangue exhibit distinguishable differences in atomic density or X-ray attenuation.

Key Findings

Global shipments in 2025 are estimated at approximately 250 to 280 units

The weighted average selling price is estimated at US\$0.60 to 0.65 million per unit

Asia Pacific leads shipment demand while Europe retains leadership in high-end XRT technology

Dual-energy systems dominate industrial installations while multi-sensor configurations are gaining adoption

Market Trends

The X-Ray Transmission Mining Sorter market is moving from relatively simple density-threshold separation toward data-driven particle classification. Dual-energy detection is increasingly combined with higher-resolution detector arrays, deep learning and adaptive classification models capable of identifying mineral inclusions, internal textures and more subtle density variations. TOMRA introduced deep-learning tools for inclusion-type ores in 2025, while suppliers including STEINERT, Comex, AMD Sorting, NUCTECH and Mingde Optoelectronic are developing XRT platforms that can be combined with visible-light, laser, near-infrared or other sensor inputs. Another important direction is the extension of sorting toward smaller feed sizes: industrial XRT systems historically focused on relatively coarse particles, but newer machines and ejection modules can process material down to approximately 4–5 mm under suitable operating conditions. Large mines are also shifting from single-machine trials to multi-machine parallel plants, while containerized, mobile and semi-mobile systems are broadening adoption in stockpile retreatment, remote mines and temporary campaigns. Digital monitoring of throughput, particle-size distribution, machine condition and product quality is becoming part of the standard system architecture, allowing operators to adjust grade-recovery thresholds as ore characteristics and commodity prices change.

Market Dynamics

Drivers

Declining head grades, rising stripping ratios and higher grinding costs are encouraging mining companies to remove barren material earlier in the process. Because crushing

and grinding account for a substantial share of mineral-processing energy use, rejecting waste before the grinding circuit can reduce power, water, reagent and tailings-management requirements while increasing the effective capacity of an existing concentrator. XRT is particularly attractive where valuable minerals or associated sulphides exhibit a measurable atomic-density contrast with the surrounding gangue. Commercial adoption is also being supported by larger industrial references: the Pilgangoora lithium operation commissioned a sorting installation exceeding 1,000 tonnes per hour, while Chinese mines have deployed multiple XRT units for lead-zinc, antimony, iron, phosphate and other ores. Increasing pressure to improve resource utilization, reduce tailings generation and extend mine life therefore remains the principal structural driver of the market.

Restraints

XRT is not universally applicable to every ore body. Commercial performance depends on sufficient liberation at the selected particle size and a consistent relationship between X-ray attenuation features and economically valuable mineralization. Ores with highly disseminated valuable minerals, weak density contrast or excessive particle overlap may require finer crushing, more complex algorithms or additional sensors, which can reduce throughput and weaken project economics. The main machine also requires properly designed crushing, screening, material presentation, compressed-air, dust-control and product-handling systems; consequently, total installed investment can be substantially higher than the price of the sorter alone. Adoption may also be delayed by lengthy bulk-sample testing, ore variability studies and integration engineering, particularly where mines are reluctant to modify an operating plant without a clearly demonstrated recovery and payback case.

Opportunities

The largest incremental opportunity is expected to come from low-grade resources and historical stockpiles that were previously uneconomic to process. XRT can recover mineralized particles from marginal ore, old waste-rock dumps and intermediate products while limiting the volume sent to energy-intensive downstream operations. Critical minerals represent another important opportunity, including lithium, tungsten, tin, nickel, cobalt, rare-earth-bearing ores and associated polymetallic deposits. Expansion into smaller particle sizes increases the addressable share of each mined tonne, while XRT combined with visible-light, laser or spectroscopic sensing can improve performance where density information alone is insufficient. Additional opportunities are

emerging in industrial minerals, mine-waste valorization and high-value final recovery, including diamonds and gemstone-bearing material.

Challenges

The industry must manage ore-specific algorithm development, variable feed moisture, particle overlap, detector calibration, valve wear and compressed-air consumption under continuous mining conditions. Performance established during laboratory testing may decline when feed size distribution, mineralogy or surface moisture changes at full scale. Suppliers must therefore provide mineralogical testwork, representative bulk trials, commissioning support and continuous model optimization rather than treating the sorter as a standardized stand-alone machine. Radiation shielding, equipment certification and site safety management also raise technical and regulatory requirements. A further commercial challenge is comparability: reported equipment prices may refer to the XRT main machine, a containerized module or a complete sorting plant, producing significant differences in apparent average selling prices.

Industry Chain Analysis

The upstream supply chain includes industrial X-ray tubes and generators, scintillator or semiconductor detector arrays, imaging electronics, high-speed data-acquisition components, industrial computers, conveyor belts, wear-resistant liners, pneumatic valves, compressors, dust-control equipment and steel structures. Detector resolution, X-ray penetration, valve response time and algorithm performance are the main components affecting sorting accuracy and system cost. Midstream suppliers design the material-presentation system, radiation enclosure, sensing architecture, classification software and ejection system, and then integrate these components with feed preparation and product-handling equipment. Downstream customers include integrated mining companies, independent mine operators, mineral-processing companies and specialized diamond or industrial-mineral producers. Value creation increasingly extends beyond equipment manufacturing to ore characterization, pilot testing, algorithm training, process design, installation, remote diagnostics, software upgrades and long-term service support.

Segment Insights

By rated feed particle size, the market is divided into ≤60 mm, >60–150 mm and >150

mm machines. The >60 mm segment benefits from the expansion of fine-particle XRT and typically requires higher detector resolution, more precise particle positioning and faster ejection. The >60–150 mm segment represents a major industrial pre-concentration range because it balances mineral liberation, X-ray penetration and high throughput. Machines rated above 150 mm serve coarse waste rejection and selected high-tonnage applications but face greater X-ray penetration and material-handling requirements.

By energy detection method, single-energy machines use one principal X-ray response to classify particles, while dual-energy machines compare two energy responses to reduce the influence of particle thickness and provide more stable density or effective-atomic-number information. Dual-energy systems represent the mainstream configuration for demanding industrial ore applications, although single-energy units remain relevant where the separation contrast is strong and cost sensitivity is higher. By configuration, standalone machines rely primarily on XRT images, whereas multi-sensor machines combine XRT with visible-light, laser, NIR, SWIR, XRF or other signals. Standalone XRT remains the larger installed category, but multi-sensor systems are expected to grow faster as mines seek to classify complex ores using both internal and surface characteristics.

Downstream Market Opportunities

Non-ferrous and critical metal ores provide the broadest medium-term opportunity because copper, lead-zinc, tin, tungsten, molybdenum, antimony, lithium and polymetallic mines frequently face declining grades and high grinding costs. Ferrous and ferroalloy ores offer demand for dry pre-concentration of iron, manganese and chromium-bearing material, while industrial and non-metallic minerals use XRT to remove silica, carbonate and other impurities before flotation, calcination or chemical processing. Precious-metal applications generally depend on dense sulphide associations or sufficiently concentrated mineral inclusions, making testwork particularly important. Diamond and gemstone recovery forms a specialized high-value niche within the broader other-applications category. Across these markets, the strongest opportunities are in new concentrator designs, brownfield debottlenecking, low-grade stockpile retreatment and the conversion of waste rock into reusable aggregate or mineral feed.

Regional Insights

Asia Pacific is assessed as the largest market by unit shipments, supported by a broad Chinese manufacturing base, expanding domestic deployment and large mining projects in Australia. HPY Sorting reports more than 260 Classic XRT machines operating in China, while other Chinese suppliers have commercialized XRT equipment across ferrous, non-ferrous, critical and industrial mineral applications. Australia is an important high-value market because its large, mechanized hard-rock mines can support multi-machine sorting plants, as demonstrated by the Pilgangoora lithium installation.

Europe remains the principal center for high-end XRT product development and international exports, led by established suppliers in Germany, Norway, Italy and Poland. Russia has a specialized position in diamond and radiometric mineral sorting through Bourevestnik. Africa represents an important market for diamonds, gold, base metals and industrial minerals, although projects are often dependent on imported equipment and regional engineering partners. Latin America offers growth potential in copper, tin, gold, silver and polymetallic operations, while North American demand is expected to develop around critical-mineral projects, mine-life extension and stockpile retreatment.

Competitive Landscape Analysis

The competitive landscape combines established global sensor-sorting specialists, X-ray technology companies and rapidly expanding Chinese mining-equipment manufacturers. TOMRA Mining and STEINERT hold the strongest international positions through broad XRT portfolios, global testing and service networks, and references across large industrial mines. Bourevestnik has a differentiated position in diamond and radiometric sorting, while Comex competes through single-energy, dual-energy, high-definition and multi-sensor XRT configurations. SGM Magnetics supplies XRT across both mining and recycling, giving it a broad technology and manufacturing platform. Among Chinese suppliers, HPY Sorting has developed a substantial XRT installation base and a portfolio spanning conventional belt, high-throughput ring-shaped and XRT-plus-vision systems. Honesort, Meiteng Technology, AMD Sorting, NUCTECH and Mingde Optoelectronic are strengthening competition through localized engineering, AI classification, broader feed-size coverage and lower equipment costs, while HOT Mining and LONGi Magnet combine sorting equipment with wider mineral-processing capabilities. allmineral is a recent entrant with its allsort dual-energy XRT platform and should be viewed as an emerging competitor rather than an established 2025 market leader. Competition is increasingly determined by application testwork,

recovery performance, installed-system reliability, software capability and lifecycle service rather than by the price of the sorter alone.

Report Scope

This report studies the global X-Ray Transmission Mining Sorters production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for X-Ray Transmission Mining 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 X-Ray Transmission Mining Sorters that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global X-Ray Transmission Mining Sorters total production and demand, 2021-2032, (Units)

Global X-Ray Transmission Mining Sorters total production value, 2021-2032, (USD Million)

Global X-Ray Transmission Mining Sorters production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global X-Ray Transmission Mining Sorters consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: X-Ray Transmission Mining Sorters domestic production, consumption, key domestic manufacturers and share

Global X-Ray Transmission Mining Sorters production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global X-Ray Transmission Mining Sorters production by Rated Feed Particle Size, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global X-Ray Transmission Mining Sorters production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global X-Ray Transmission Mining 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 Mining, STEINERT, Bourevestnik, Comex, SGM Magnetics, allmineral, HPY Sorting, Honesort, Meiteng Technology, AMD Sorting, 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 X-Ray Transmission Mining Sorters 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 Rated Feed Particle Size, 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 X-Ray Transmission Mining Sorters Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global X-Ray Transmission Mining Sorters Market, Segmentation by Rated Feed Particle Size:

?60 mm

>60–150 mm

150 mm

Global X-Ray Transmission Mining Sorters Market, Segmentation by Energy Detection Method:

Single-Energy

Dual-Energy

Global X-Ray Transmission Mining Sorters Market, Segmentation by Configuration:

Standalone

Multi-Sensor

Global X-Ray Transmission Mining Sorters Market, Segmentation by

Application:

Ferrous and Ferroalloy Metal Ores

Non-Ferrous and Critical Metal Ores

Precious Metal Ores

Industrial and Non-Metallic Minerals

Others

Companies Profiled:

TOMRA Mining

STEINERT

Bourestnik

Comex

SGM Magnetics

allmineral

HPY Sorting

Honesort

Meiteng Technology

AMD Sorting

NUCTECH

Mingde Optoelectronic

HOT Mining

LONGi Magnet

Key Questions Answered

1. How big is the global X-Ray Transmission Mining Sorters market?
2. What is the demand of the global X-Ray Transmission Mining Sorters market?
3. What is the year over year growth of the global X-Ray Transmission Mining Sorters market?
4. What is the total value of the global X-Ray Transmission Mining Sorters market?
5. Who are the Major Players in the global X-Ray Transmission Mining Sorters market?
6. What are the growth factors driving the market demand?

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