

Global Laser-Induced Breakdown Spectroscopy Metal Sorting System Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G6FE5623EFB9EN.html>

Date: May 2026

Pages: 120

Price: US\$ 4,480.00 (Single User License)

ID: G6FE5623EFB9EN

Abstracts

The global Laser-Induced Breakdown Spectroscopy Metal Sorting System market size is expected to reach \$ 135 million by 2032, rising at a market growth of 4.0% CAGR during the forecast period (2026-2032).

In 2025, global Laser-Induced Breakdown Spectroscopy Metal Sorting System production reached approximately 40 Units . The Laser Induced Breakdown Spectroscopy Metal Sorting System is an industrial automation device based on advanced spectral analysis technology. Its core principle is to use a high-energy pulsed laser to irradiate the surface of the metal to be tested, exciting the generation of plasma. The system captures the characteristic spectrum emitted by the plasma through a spectrometer and compares it with a built-in database in real time, thereby accurately and quickly identifying the elemental composition and grade of the metal material. This system can complete online or offline identification and classification of materials such as scrap metal and alloy fragments in a non-contact manner within seconds. It significantly improves the efficiency and accuracy of metal recycling and sorting, and is a key technological equipment for achieving resource recycling and industrial process quality control.

The global price of Laser-Induced Breakdown Spectroscopy Metal Sorting Systems varies significantly. Standard industrial-grade units typically cost between \$500,000 and \$1 million, while high-end customized or fully automated production line integration solutions can exceed \$3 million. The cost structure is primarily driven by core optical components (pulsed lasers, spectrometers), accounting for approximately 40%-60% of the total cost. The remainder comprises mechanical structures, electrical controls, software, and assembly/debugging costs. Due to high technological barriers and

reliance on specialized suppliers for core components, overall hardware costs constitute a large proportion. Industry gross margins vary depending on a company's technological integration capabilities and brand premium, typically ranging from 35% to 55%.

The laser-induced breakdown spectroscopy metal sorting system industry chain is maturing. The upstream core is dominated by leading overseas companies, including suppliers of high-energy pulsed lasers (such as IPG in the US and Trumpf in Germany), high-resolution spectrometers (such as Hamamatsu in Japan and Ocean Optics in the US), and key component suppliers such as optical lenses and high-speed detectors. Downstream customers are concentrated in two main areas: first, the metal recycling industry, serving large scrap steel processing centers and non-ferrous metal recycling companies for efficient sorting of shredded materials such as waste automobiles and electrical appliances; second, high-end manufacturing, such as aerospace and automotive parts suppliers, for the verification and quality control of incoming metal raw materials. This system is becoming an important tool for the circular economy and industrial digitalization.

This report studies the global Laser-Induced Breakdown Spectroscopy Metal Sorting System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Laser-Induced Breakdown Spectroscopy Metal Sorting System 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 Laser-Induced Breakdown Spectroscopy Metal Sorting System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Laser-Induced Breakdown Spectroscopy Metal Sorting System total production and demand, 2021-2032, (Units)

Global Laser-Induced Breakdown Spectroscopy Metal Sorting System total production value, 2021-2032, (USD Million)

Global Laser-Induced Breakdown Spectroscopy Metal Sorting System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Laser-Induced Breakdown Spectroscopy Metal Sorting System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Laser-Induced Breakdown Spectroscopy Metal Sorting System

domestic production, consumption, key domestic manufacturers and share
Global Laser-Induced Breakdown Spectroscopy Metal Sorting System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Laser-Induced Breakdown Spectroscopy Metal Sorting System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Laser-Induced Breakdown Spectroscopy Metal Sorting System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Laser-Induced Breakdown Spectroscopy Metal Sorting System 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 Aspectus GmbH, Austin AI Inc, CLEANSORT, Ocean Optics, SECOPTA analytics GmbH, Steinert, TOMRA, TSI, SGM Magnetics, Jhnu, 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 Laser-Induced Breakdown Spectroscopy Metal Sorting System 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 Laser-Induced Breakdown Spectroscopy Metal Sorting System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Laser-Induced Breakdown Spectroscopy Metal Sorting System Market,
Segmentation by Type:

Line Sorting System

Scanner-Based Systems

Others

Global Laser-Induced Breakdown Spectroscopy Metal Sorting System Market,
Segmentation by Sorting Speed (Per Hour):

5 Tons and Below

6-10 Tons

10 Tons and Above

Global Laser-Induced Breakdown Spectroscopy Metal Sorting System Market,
Segmentation by Technology:

LIBS + Vision Technology

LIBS + XRT Technology

Global Laser-Induced Breakdown Spectroscopy Metal Sorting System Market, Segmentation by Application:

Scrap Metal Recycling

Automotive Industry

Electronics Recycling

Mining and Metal Manufacturing

Others

Companies Profiled:

Aspectus GmbH

Austin AI Inc

CLEANSORT

Ocean Optics

SECOPTA analytics GmbH

Steinert

TOMRA

TSI

SGM Magnetics

Jhnuc

BGRIMM MTC TECHNOLOGY

CRRG

Key Questions Answered:

1. How big is the global Laser-Induced Breakdown Spectroscopy Metal Sorting System market?
2. What is the demand of the global Laser-Induced Breakdown Spectroscopy Metal Sorting System market?
3. What is the year over year growth of the global Laser-Induced Breakdown Spectroscopy Metal Sorting System market?
4. What is the production and production value of the global Laser-Induced Breakdown Spectroscopy Metal Sorting System market?
5. Who are the key producers in the global Laser-Induced Breakdown Spectroscopy Metal Sorting System market?
6. What are the growth factors driving the market demand?

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