

Global Handheld LIBS Carbon Analyzer Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G9CEEDF4D7DDEN.html>

Date: June 2026

Pages: 94

Price: US\$ 3,480.00 (Single User License)

ID: G9CEEDF4D7DDEN

Abstracts

According to our (Global Info Research) latest study, the global Handheld LIBS Carbon Analyzer market size was valued at US\$ 16.67 million in 2025 and is forecast to a readjusted size of US\$ 25.45 million by 2032 with a CAGR of 6.3% during review period.

A handheld LIBS (Laser-Induced Breakdown Spectroscopy) carbon analyzer is a portable device that uses a high-powered, pulsed laser to vaporize a tiny amount of material, creating a plasma that emits light characteristic of the elements present. It specifically measures carbon content in steels, stainless steels, and cast irons.

In 2025, global production of Handheld LIBS Carbon Analyzers reached 463 units, with an average price of USD 35,000 per unit. Total production capacity was approximately 600 units, and the industry gross margin was about 30%-50%. The cost structure consists of direct materials accounting for about 60%, manufacturing overhead about 25%, and labor costs about 15%. The industrial chain: upstream includes lasers, optical components, spectrometers, detectors, etc., while downstream includes steel and metallurgical enterprises, mining companies, etc.

This report is a detailed and comprehensive analysis for global Handheld LIBS Carbon Analyzer market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Handheld LIBS Carbon Analyzer market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Handheld LIBS Carbon Analyzer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Handheld LIBS Carbon Analyzer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Handheld LIBS Carbon Analyzer market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Handheld LIBS Carbon Analyzer

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Handheld LIBS Carbon Analyzer market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SciAps, Thermo Fisher Scientific, Rigaku, ARUN Technology, OPTOSKY, Lanscientific, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Handheld LIBS Carbon Analyzer market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Accuracy

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