

Global Laser Shearography NDT System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G4FAC2354218EN.html>

Date: September 2026

Pages: 96

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

ID: G4FAC2354218EN

Abstracts

According to our (Global Info Research) latest study, the global Laser Shearography NDT System market size was valued at US\$ 33.96 million in 2025 and is forecast to a readjusted size of US\$ 52.66 million by 2032 with a CAGR of 6.4% during review period.

Laser Shearography NDT Systems are full-field, non-contact optical nondestructive testing systems that use laser speckle shearing interferometry to measure small changes in surface deformation gradients while a component is subjected to vacuum, thermal, pressure, acoustic or vibration loading. Subsurface defects alter the local structural response and can therefore be visualized as characteristic deformation anomalies. Typical applications include disbonding, delamination, honeycomb and sandwich-core defects, impact damage, trapped air and other integrity defects in composite or bonded structures. The upstream industry includes semiconductor lasers, laser diodes, CMOS industrial cameras, interferometric optics, beam splitters, lenses, phase-shifting components, piezoelectric actuators, vacuum pumps, thermal excitation devices, acoustic and vibration exciters, industrial computers, motion-control components, robots and data-acquisition electronics. Midstream manufacturers integrate optical shearography sensors, excitation systems, phase reconstruction algorithms, defect-analysis software, mechanical fixtures, vacuum chambers, gantries, robotic scanning systems and production-line interfaces into complete NDT platforms. Representative suppliers include Dantec Dynamics, Laser Technology Inc., isi-sys, ITALMATIC, SDS Systemtechnik and MESNAC. Downstream customers include aerospace manufacturers and MRO organizations, spacecraft and defense contractors, tire manufacturers and retreaders, wind-turbine blade manufacturers and service companies, marine composite manufacturers, railway equipment companies, research

institutes and advanced-composite production facilities.

Laser Shearography occupies a narrow but technically differentiated position within the broader NDT industry. Its strongest value proposition is not universal defect detection, but rapid full-field inspection of large bonded, honeycomb and sandwich composite structures where point-by-point inspection methods can be relatively time-consuming. This explains the technology's durable presence in aerospace composites and its highly industrialized adoption in tire inspection. Future market value is more likely to come from automation than from a rapid increase in the number of standalone cameras. Robotic scanning, multi-head tire inspection, automated defect classification, production-line integration and traceable inspection databases increase the value of each installation. ITALMATIC's ten-head in-line system and LTI's robotic, gantry and large vacuum-chamber configurations illustrate this direction. China has already moved beyond pure import dependence: domestic tire shearography equipment exists, the composite-material method is incorporated into the national standards framework, and domestic instrument suppliers participate in the standard revision process. However, high-end aerospace adoption still depends heavily on validated probability-of-detection performance, process qualification, rugged optical stability and long-term customer references, which continue to favor established international suppliers. In 2025, global Laser Shearography NDT System production was approximately 213 systems. The estimated volume-weighted average selling price was approximately US\$155,000 per system. Major suppliers operated across an estimated gross profit margin range of approximately 30%–48%. Global effective production and engineering delivery capacity was approximately 284 systems.

Report Scope

This report is a detailed and comprehensive analysis for global Laser Shearography NDT System 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 Laser Shearography NDT System market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Laser Shearography NDT System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Laser Shearography NDT System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Laser Shearography NDT System market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K 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 Laser Shearography NDT System

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 Laser Shearography NDT System 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 Dantec Dynamics A/S, Laser Technology, Inc., isi-sys GmbH, Optonor AS, OPTRION SA, VEW Vereinigte Elektronik Werkstätten GmbH, Laser Optical Engineering Ltd, SDS Systemtechnik GmbH, Italmatic S.r.l., JiashengTest Engineering Co., Ltd., etc.

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

Laser Shearography NDT System 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 Segmentation

Market segment by Type

Portable Laser Shearography NDT Systems

Stationary Laser Shearography NDT Systems

Market segment by Number of Integrated Excitation Modes

No Integrated Excitation Mode

One Integrated Excitation Mode

Two or More Integrated Excitation Modes

Market segment by Primary Shearography Camera Pixel Resolution

Up to 2 MP Camera Resolution

Above 2 MP and Up to 5 MP Camera Resolution

Above 5 MP and Up to 12 MP Camera Resolution

Above 12 MP Camera Resolution

Market segment by Inspection Automation Level

Manual Laser Shearography NDT Systems

Semi-Automated Laser Shearography NDT Systems

Fully Automated Laser Shearography NDT Systems

Market segment by Application

Aerospace and Defense

Wind Energy

Marine

Tire Manufacturing and Retreading

Automotive and Rail Transportation

General Industrial Composite Manufacturing

Major players covered

Dantec Dynamics A/S

Laser Technology, Inc.

isi-sys GmbH

Optonor AS

OPTRION SA

VEW Vereinigte Elektronik Werkstätten GmbH

Laser Optical Engineering Ltd

SDS Systemtechnik GmbH

Italmatic S.r.l.

JiashengTest Engineering Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Laser Shearography NDT System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Laser Shearography NDT System, with price, sales quantity, revenue, and global market share of Laser Shearography NDT System from 2021 to 2026.

Chapter 3, the Laser Shearography NDT System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Laser Shearography NDT System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market

share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Laser Shearography NDT System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Laser Shearography NDT System.

Chapter 14 and 15, to describe Laser Shearography NDT System sales channel, distributors, customers, research findings and conclusion.

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