

Global Laser Shearography NDT System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Laser Shearography NDT System market size is expected to reach \$ 52.66 million by 2032, rising at a market growth of 6.4% CAGR during the forecast period (2026-2032).

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 studies the global Laser Shearography NDT System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Laser Shearography NDT 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 Shearography NDT System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Laser Shearography NDT System total production and demand,

2021-2032, (Units)

Global Laser Shearography NDT System total production value, 2021-2032, (USD Million)

Global Laser Shearography NDT System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Laser Shearography NDT System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Laser Shearography NDT System domestic production, consumption, key domestic manufacturers and share

Global Laser Shearography NDT System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Laser Shearography NDT System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Laser Shearography NDT System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Laser Shearography NDT 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Laser Shearography NDT 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 Shearography NDT System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Laser Shearography NDT System Market, Segmentation by Type:

Portable Laser Shearography NDT Systems

Stationary Laser Shearography NDT Systems

Global Laser Shearography NDT System Market, Segmentation by Number of Integrated Excitation Modes:

No Integrated Excitation Mode

One Integrated Excitation Mode

Two or More Integrated Excitation Modes

Global Laser Shearography NDT System Market, Segmentation 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

Global Laser Shearography NDT System Market, Segmentation by Inspection Automation Level:

Manual Laser Shearography NDT Systems

Semi-Automated Laser Shearography NDT Systems

Fully Automated Laser Shearography NDT Systems

Global Laser Shearography NDT System Market, Segmentation by Application:

Aerospace and Defense

Wind Energy

Marine

Tire Manufacturing and Retreading

Automotive and Rail Transportation

General Industrial Composite Manufacturing

Companies Profiled:

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.

Key Questions Answered

1. How big is the global Laser Shearography NDT System market?
2. What is the demand of the global Laser Shearography NDT System market?
3. What is the year over year growth of the global Laser Shearography NDT System market?
4. What is the total value of the global Laser Shearography NDT System market?
5. Who are the Major Players in the global Laser Shearography NDT System market?
6. What are the growth factors driving the market demand?

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