

# Global Welding Data Acquisition System Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Welding Data Acquisition System market size was valued at US\$ 429 million in 2025 and is forecast to a readjusted size of US\$ 761 million by 2032 with a CAGR of 8.5% during review period.

A welding data acquisition system is an industrial automation system designed for the real-time monitoring, recording, and analysis of welding process parameters. Primarily utilizing sensors, data acquisition modules, industrial communication interfaces, and analysis software, it continuously collects and stores critical parameters during the welding process—such as current, voltage, welding speed, wire feed speed, temperature, and gas flow rate. This system facilitates welding quality traceability, process optimization, anomaly alerting, and the digitalization of production management; it is widely applied across sectors including automotive manufacturing, construction machinery, rail transit, shipbuilding, pressure vessels, and aerospace. Its core components comprise industrial controllers, PLCs, edge computing units, database platforms, and MES interfaces, enabling seamless integration with robotic welding workstations and smart factory systems. Driven by advancements in Industry 4.0, smart manufacturing, and high-end equipment manufacturing, welding data acquisition systems are evolving toward higher precision, cloud-based architectures, AI-driven analytics, and remote operation and maintenance capabilities, thereby establishing themselves as a fundamental infrastructure for achieving digitalization and quality control in modern welding production lines.

This report is a detailed and comprehensive analysis for global Welding Data Acquisition System market. Both quantitative and qualitative analyses are presented by

company, 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 Welding Data Acquisition System market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Welding Data Acquisition System market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Welding Data Acquisition System market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Welding Data Acquisition System market shares of main players, in revenue (\$ Million), 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 Welding Data Acquisition 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 Welding Data Acquisition System market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bond Technologies, Fronius, Lincoln Electric, Holland, Siemens, Miller Electric, The Validation Centre, Standex Detect, ABB, DISUO, etc.

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

## Market segmentation

Welding Data Acquisition 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. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Contact-based

Non-contact

### Market segment by Sensor Data Acquisition

Electrical Signal Acquisition

Thermal Signal Acquisition

Visual Image Acquisition

### Market segment by Sampling Frequency

Sampling Frequency: 1–100 Hz

Sampling Frequency: 100–1000 Hz

Sampling Frequency: 1000–10000 Hz

### Market segment by Application

Automotive Manufacturing

Construction Machinery

Rail Transit

Others

Market segment by players, this report covers

Bond Technologies

Fronius

Lincoln Electric

Holland

Siemens

Miller Electric

The Validation Centre

Standex Detect

ABB

DISUO

AOTAI

KETIANJIAN

Amada Weld Tech

Weldlogic

Precitec

Cetim Engineering

Yokogawa Electric

Galileo TP

IROOTECH

TENCENT

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Welding Data Acquisition System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Welding Data Acquisition System, with revenue, gross margin, and global market share of Welding Data Acquisition System from 2021 to 2026.

Chapter 3, the Welding Data Acquisition System competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026.

Welding Data Acquisition System market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Welding Data Acquisition System.

Chapter 13, to describe Welding Data Acquisition System research findings and conclusion.

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