

Global Welding Design Software Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Welding Design Software market size is expected to reach \$ 712 million by 2032, rising at a market growth of 7.1% CAGR during the forecast period (2026-2032).

Welding Design Software is a suite of software tools designed for welded structures, welded joints, weld symbols, welding process parameters, welding sequences, the prediction of welding deformation and residual stresses, robotic welding path planning, and the management of welding manufacturing documentation. It typically supports the workflow spanning 'pre-weld design, process simulation, process planning, offline programming, and quality traceability.' Its core value lies in transforming the traditional welding design process?which relies heavily on engineer experience, prototype test welding, and on-site rework?into a digital process that is modelable, calculable, verifiable, and reusable. Typical functions include weld modeling, weld symbol annotation, structural strength verification, simulation of welding heat input and weld pool behavior, post-weld deformation prediction, welding sequence optimization, fixture and assembly deviation analysis, and robotic welding path generation.

Early requirements focused on welding symbols, weld dimensions, structural modeling, and engineering drawing representation; today, however, users increasingly seek to simultaneously address weld deformation prediction, fixture scheme evaluation, welding sequence optimization, and process parameter validation during the design phase. Software solutions such as SYSWELD, Simufact Welding, and JWELD all emphasize the ability to predict weld quality, residual stress, deformation, or process windows prior to actual prototype fabrication. Products such as large-scale welded structures, lightweight vehicle bodies, battery trays, pressure vessels, ship hull sections, and rocket propellant tanks demand stricter control over post-weld deformation and residual stress; consequently, welding simulation software is transitioning from specialized tools used

by researchers and experts into standard tools for engineering departments.

This report studies the global Welding Design Software demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Welding Design Software, 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 Welding Design Software that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Welding Design Software total market, 2021-2032, (USD Million)

Global Welding Design Software total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Welding Design Software total market, key domestic companies, and share, (USD Million)

Global Welding Design Software revenue by player, revenue and market share 2021-2026, (USD Million)

Global Welding Design Software total market by Type, CAGR, 2021-2032, (USD Million)

Global Welding Design Software total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Welding Design Software 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 Dassault Syst?mes, Autodesk, Siemens Digital Industries Software, Ansys, Keysight, Cadence, JSOL Corporation, SWANTEC, Flow Science, ABB Robotics, 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 Welding Design Software market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), by player, by regions, 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 Welding Design Software Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Welding Design Software Market, Segmentation by Type:

Weldment CAD & Symbol Design

Weld Strength & Joint Calculation

Welding Process Simulation

Others

Global Welding Design Software Market, Segmentation by Welding Process:

Arc Welding Software

Laser Welding Software

Resistance Welding Software

Others

Global Welding Design Software Market, Segmentation by Application:

Automotive

Shipbuilding

Aerospace

Construction Machinery

Others

Companies Profiled:

Dassault Systèmes

Autodesk

Siemens Digital Industries Software

Ansys

Keysight

Cadence

JSOL Corporation

SWANTEC

Flow Science

ABB Robotics

CENIT

Lincoln Electric

ESAB

Hexagon

FabWeld

KMSOft

YYF InteWeld

Key Questions Answered

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

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