

Global IR Welding Machine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global IR Welding Machine market size is expected to reach \$ 497 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

An IR welding machine, or infrared welding machine, is equipment used to join thermoplastic parts by applying infrared radiation to heat and melt the joint surfaces without direct contact. After the surfaces are softened, the machine applies pressure so the plastic parts fuse together during cooling. Compared with hot plate welding, IR welding reduces sticking, contamination, particle generation, and surface marking because the heating source does not touch the material. It is suitable for PE, PP, PVC, PA, PC, PC/ABS, ABS, PBT, PMMA, and other weldable thermoplastics. Global production capacity is approximately 5 thousand units.

In 2025, global sales reached approximately 4.3 thousand units, with an average price of around KUS\$ 76.5 per unit, gross margin around 30%.

The IR welding machine market has a positive but application-specific outlook. It will grow where non-contact heating, cleanliness, low particle generation, strong sealing, and controlled appearance are more important than the lowest equipment cost. Automotive, medical, fluid-handling, electronics, and pipe applications will remain key demand areas. Compared with hot plate welding, IR welding offers cleaner heating and lower contamination risk, but higher machine cost, material absorption differences, and fixture accuracy requirements may limit adoption. Overall, IR welding machines will continue gaining share in high-quality thermoplastic joining applications requiring clean, sealed, repeatable, and visually stable welds.

Market Trend

The IR welding machine market is developing toward clean, automated, high-precision, and digitally controlled welding systems. Equipment suppliers are improving infrared emitter design, servo clamping, temperature control, recipe storage, process monitoring, and data traceability. IR welding is increasingly used in applications that require low contamination, low flash, clean appearance, and stable sealing quality. Automotive, medical, electronics, fluid-handling, and pipe applications are important demand areas. Compared with hot plate welding, IR welding can reduce heating contamination and improve process cleanliness, while remaining more suitable than laser welding for some larger plastic assemblies.

Market Drive

Market growth is mainly driven by demand for cleaner plastic joining, stronger sealing, higher product reliability, and replacement of adhesives, screws, and conventional hot plate processes. IR welding provides non-contact heating, which helps prevent material transfer from the heating plate to the plastic surface and reduces weld contamination risk. It can produce strong, air-tight welds in thermoplastic parts, making it suitable for automotive reservoirs, medical fluid parts, electronics housings, sensors, pipe systems, and precision plastic components. Demand is also supported by automation upgrades and stricter quality requirements in high-value plastic assemblies.

Upstream and Downstream

Upstream suppliers include infrared emitter manufacturers, quartz and ceramic heater suppliers, temperature controller companies, servo and pneumatic component makers, PLC and HMI suppliers, motion-control companies, machine vision suppliers, fixture and tooling manufacturers, safety enclosure makers, cooling component suppliers, and thermoplastic resin producers. Key materials include PP, PE, PVC, PA, PC, ABS, PC/ABS, PBT, PMMA, and engineering plastics. Downstream customers include automotive OEMs and parts suppliers, medical device manufacturers, electronics companies, pipe system installers, fluid container producers, appliance manufacturers, sensor suppliers, packaging companies, and precision plastic assembly plants.

This report studies the global IR Welding Machine production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global IR Welding Machine total production and demand, 2021-2032, (Units)

Global IR Welding Machine total production value, 2021-2032, (USD Million)

Global IR Welding Machine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global IR Welding Machine consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: IR Welding Machine domestic production, consumption, key domestic manufacturers and share

Global IR Welding Machine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global IR Welding Machine production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global IR Welding Machine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global IR Welding Machine 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 Emerson Electric Co., Dukane Corp., Forward Technology Industries, Inc., Extol, Inc., HA Industries, Inc., FRIMO Group GmbH, KLN Ultraschall AG, SONOTRONIC GmbH, Persico S.p.A., CEMAS Elettra S.r.l., 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 IR Welding Machine 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 IR Welding Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global IR Welding Machine Market, Segmentation by Type:

Horizontal

Vertical

Global IR Welding Machine Market, Segmentation by Heat Source:

Short-wave Infrared

Medium-wave Infrared

Global IR Welding Machine Market, Segmentation by Heating:

Surface Infrared Heating Welding

Through Transmission Infrared Welding

Global IR Welding Machine Market, Segmentation by Application:

Automotive

General Industry

Consumer Electronics

Medical Devices

Others

Companies Profiled:

Emerson Electric Co.

Dukane Corp.

Forward Technology Industries, Inc.

Extol, Inc.

HA Industries, Inc.

FRIMO Group GmbH

KLN Ultraschall AG

SONOTRONIC GmbH

Persico S.p.A.

CEMAS Elettra S.r.l.

Europe Technologies SAS

Georg Fischer Ltd.

Cosmo System Co., Ltd.

Seidensha Electronics Co., Ltd.

Zhejiang Zhenbo Precision Machinery Co., Ltd.

Suzhou Keber Technology Co., Ltd.

Ger-Sonic (Changzhou) Welding Technology Co., Ltd.

Shanghai Chenfeng Industrial Development Co., Ltd.

Suzhou Jfortune Precision Machinery Co., Ltd.

Hubei Mingmai Technology Co., Ltd.

Key Questions Answered:

1. How big is the global IR Welding Machine market?
2. What is the demand of the global IR Welding Machine market?
3. What is the year over year growth of the global IR Welding Machine market?
4. What is the production and production value of the global IR Welding Machine market?
5. Who are the key producers in the global IR Welding Machine market?
6. What are the growth factors driving the market demand?

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