

Global TIG Welding Equipment Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global TIG Welding Equipment market size is expected to reach \$ 3869 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

TIG Welding Equipment refers to welding machines and related systems used for Tungsten Inert Gas welding, also known as Gas Tungsten Arc Welding. This process uses a non-consumable tungsten electrode to generate an arc, while inert shielding gas, usually argon or helium, protects the weld area from oxidation. It is widely used for high-quality welding of stainless steel, aluminum, titanium, copper alloys, and thin-wall precision components in aerospace, automotive, medical, chemical, and metal fabrication industries.

Global production capacity is approximately 8 million units.

In 2025, global sales reached approximately 5.8 million units, with an average price of around US\$ 467 per unit, gross margin around 25%.

The TIG Welding Equipment market is a specialized and high-quality segment of the welding equipment industry. Compared with MIG/MAG welding, TIG welding is generally slower but offers superior weld quality, cleaner appearance, and better control over heat input. Therefore, it is widely used in industries with strict requirements for precision, strength, and surface quality. Although the market faces challenges such as lower welding speed, higher skill requirements, and relatively higher equipment cost, long-term demand remains supported by precision manufacturing, lightweight materials, high-end industrial equipment, and quality-focused production. Suppliers with strong technology, reliability, service capability, and application expertise are expected to maintain advantages.

Market Trend

The TIG Welding Equipment market is moving toward digital control, inverter technology, automation, and higher welding precision. Traditional TIG machines are increasingly being replaced by compact inverter-based equipment with better arc stability, lower energy consumption, and more flexible parameter control. Demand is growing for pulsed TIG welding, AC/DC TIG systems, and automated TIG welding solutions for high-quality applications. Industries such as aerospace, electric vehicles, medical devices, pressure vessels, and precision manufacturing are driving demand for cleaner, more stable, and low-spatter welding processes. Intelligent monitoring, parameter memory, and integration with robotic systems are also becoming important trends.

Market Drive

The main drivers of the TIG Welding Equipment market include rising demand for high-quality welding, growth in precision manufacturing, and increasing use of stainless steel, aluminum, titanium, and other high-value materials. TIG welding provides excellent weld appearance, strong joint quality, and precise heat control, making it suitable for critical components and thin materials. Growth in aerospace, automotive lightweighting, medical equipment, food processing machinery, chemical equipment, and energy industries continues to support market demand. In addition, stricter quality standards and the need for defect reduction are encouraging manufacturers to use advanced TIG welding equipment in both manual and automated production.

Upstream and Downstream

The upstream of the TIG Welding Equipment industry mainly includes suppliers of power electronics, transformers, semiconductors, control boards, tungsten electrodes, welding torches, cables, gas regulators, cooling systems, sensors, and metal housings. Shielding gas suppliers and consumable manufacturers also play important supporting roles. Midstream companies are welding equipment manufacturers and system integrators that produce manual TIG machines, AC/DC TIG welders, pulsed TIG equipment, automated TIG systems, and robotic TIG workstations. Downstream customers include aerospace manufacturers, automotive companies, medical device producers, stainless steel fabricators, pressure vessel manufacturers, chemical equipment companies, food machinery producers, shipyards, and precision metalworking workshops.

This report studies the global TIG Welding Equipment production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global TIG Welding Equipment total production and demand, 2021-2032, (K Units)

Global TIG Welding Equipment total production value, 2021-2032, (USD Million)

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

Global TIG Welding Equipment consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: TIG Welding Equipment domestic production, consumption, key domestic manufacturers and share

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

Global TIG Welding Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global TIG Welding Equipment production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global TIG Welding Equipment 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 ESAB, Lincoln Electric, Illinois Tool Works, Daihen, Panasonic, Stanley Black & Decker, Fronius International, Carl Cloos Schweisstechnik, Hugong, Jasic Technology, 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 TIG Welding Equipment market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/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 TIG Welding Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global TIG Welding Equipment Market, Segmentation by Type:

Manual

Automatic

Global TIG Welding Equipment Market, Segmentation by Classification:

Portable Welder

Vertical Welder

Global TIG Welding Equipment Market, Segmentation by Power:

AC Welder

DC Welder

Global TIG Welding Equipment Market, Segmentation by Application:

Construction

Automotive

Heavy Equipment

Electronics, Medical and Precision Instruments

Energy and Chemical

Others

Companies Profiled:

ESAB

Lincoln Electric

Illinois Tool Works

Daihen

Panasonic

Stanley Black & Decker

Fronius International

Carl Cloos Schweisstechnik

Hugong

Jasic Technology

Kende

Kemppi

Riland

Hutong

Aotai Electric

Denyo

Telwin

Beijing Time Technologies

Kaierda

CEA Weld

Aitel Welder

Key Questions Answered:

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

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