

Global Plasma Torch Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Plasma Torch market size is expected to reach \$ 1338 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

Global sales volume of plasma torches is projected to reach 650,000 units by 2025, with an average price of \$1,329 per unit.

A plasma torch is a device that utilizes electrical energy to generate and sustain a high-temperature plasma jet. Its core operating principle involves ionizing a working gas (such as argon, nitrogen, hydrogen, oxygen, or air) via a high-voltage electric arc or high-frequency discharge. This process rapidly raises the gas temperature to thousands or even tens of thousands of degrees Celsius, creating a plasma stream with extremely high energy density.

Key materials used in plasma torches include high-melting-point electrode materials (cathodes made of pure tungsten or tungsten alloys alloyed with thorium, lanthanum, or cerium with melting points exceeding 3,400°C); highly thermally conductive and corrosion-resistant nozzle materials (oxygen-free copper or copper alloys capable of withstanding extreme thermal shock and arc erosion); high-temperature-resistant insulators (ceramics such as alumina or boron nitride); and high-strength structural components (torch housings made of stainless steel or aluminum alloy). Cooling systems typically employ a deionized water circulation loop, comprising copper piping, seals (fluororubber or PTFE), and pump/valve assemblies.

Regarding cost structure, consumables such as electrodes and nozzles represent the primary operating costs; in applications like cutting and metallurgy, electrode lifespan directly dictates usage costs. The torch body and power supply system constitute a one-time investment, accounting for 30%-50% of the total equipment cost; cooling water

and gas supply systems account for 10%-20%; and the remainder covers installation, commissioning, and maintenance expenses.

This report studies the global Plasma Torch production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Plasma Torch total production and demand, 2021-2032, (K Units)

Global Plasma Torch total production value, 2021-2032, (USD Million)

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

Global Plasma Torch consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Plasma Torch domestic production, consumption, key domestic manufacturers and share

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

Global Plasma Torch production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Plasma Torch production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Plasma Torch 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 Linde (IE), Lincoln Electric (US), High Temperature Technologies (DE), Pyrogenesis (CA), Hypertherm (US), ESAB (US), Kjellberg Cutting (DE), Miller Electric (US), Trafimet (IT), Fronius (AT), 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 Plasma Torch market

Detailed Segmentation:

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Plasma Torch Market, Segmentation by Type:

High Frequency Plasma

Arc Plasma

Global Plasma Torch Market, Segmentation by Power:

Low Power (100 kW)

Global Plasma Torch Market, Segmentation by Electrode Type:

Non-consumable Electrode

Consumable Electrode

Global Plasma Torch Market, Segmentation by Application:

Metal Processing

Surface Treatment

Waste Treatment

Metallurgical Industry

Other

Companies Profiled:

Linde (IE)

Lincoln Electric (US)

High Temperature Technologies (DE)

Pyrogenesis (CA)

Hypertherm (US)

ESAB (US)

Kjellberg Cutting (DE)

Miller Electric (US)

Trafimet (IT)

Fronius (AT)

OTC Daihen (JP)

Jasic Technology Co., Ltd. (CN)

Shanghai Hugong Electric Co., Ltd. (CN)

Chengdu Huayuan Electric Co., Ltd. (CN)

Ruilin Welding (CN)

Key Questions Answered:

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

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