

Global Air Cooled Robotic Torch Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Air Cooled Robotic Torch market size is expected to reach \$ 643 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

An air cooled robotic torch is a welding end-effector mounted on an industrial robot and mainly used for MIG/MAG welding, flux-cored wire welding, and other automated arc welding processes. It controls the temperature rise of the torch body, contact tip, and front-end components through natural air cooling or shielding-gas-assisted heat dissipation, making it suitable for medium-duty, intermittent, or moderate-cycle automated welding applications. The product was developed to address the limitations of traditional manual welding, such as inconsistent weld quality, high labor intensity, restricted welding posture, and insufficient productivity in batch manufacturing, while also providing a simpler, easier-to-maintain, and more cost-effective solution for automated welding scenarios that do not require a liquid cooling system. As robotic welding has expanded across industries such as automotive components, construction machinery, metal furniture, storage systems, agricultural equipment, and general fabricated structures, air cooled robotic torches have evolved from relatively basic automation tools into standardized products compatible with different robot platforms, wire feeding systems, and welding power sources. Their upstream supply chain mainly includes raw materials such as copper and copper alloys, steel, aluminum, engineering plastics, heat-resistant insulating materials, and rubber parts, as well as components such as contact tips, nozzles, liners, insulating sleeves, torch necks, connectors, cable assemblies, sensors, and anti-collision devices, all of which directly affect electrical conductivity, heat resistance, wear life, wire feeding stability, and overall welding reliability. In 2025, the global production capacity of air cooled robotic torches was 300,000 units, while sales volume reached 235,000 units. The average selling price was USD 1,755 per unit, and the gross profit margin of manufacturers was in the range of

20%?30%.

The current market is characterized by the continued expansion of robotic arc welding from mature sectors such as automotive into a broader range of general manufacturing applications, and air cooled robotic torches still hold an important position in that transition. For many medium-duty welding tasks with moderate cycle requirements and limited workspace, end users place strong emphasis on ease of deployment, maintenance simplicity, and overall operating cost, which helps sustain the relevance of air cooled solutions. Official industry materials consistently highlight that robotic welding improves weld consistency, implementation efficiency, and production stability, while labor shortages, rising wage pressure, and stricter safety expectations continue to accelerate automation demand. In this context, air cooled torches remain attractive because they are typically lighter, more compact, and less complex at the system level in applications that do not require extreme thermal performance.

Looking ahead, the market is unlikely to see air cooled robotic torches simply replaced by water cooled systems. Instead, development is more likely to focus on better compatibility, easier maintenance, and stronger digital integration within automated welding cells. Robotic welding systems increasingly demand faster integration, standardized interfaces, and repeatable process control, which requires torches to work more seamlessly with robots, wire feed units, power sources, torch cleaning devices, and software platforms. At the same time, the push toward flexible manufacturing favors lighter torch designs, better access in confined geometries, improved consumable life, and quicker serviceability. Companies such as ABB and ESAB are clearly linking robotic welding with digitalization, intelligent software, process stability, and productivity gains, showing that future competition will center not only on torch hardware but also on system-level coordination and usability.

At the same time, the market faces practical limitations. Although air cooled solutions offer advantages in cost and maintenance, their thermal management capability is naturally more limited in high-current, long-duty-cycle, or high-heat-input applications, which leaves room for water cooled torches to dominate the heaviest operating conditions. Public information from ABICOR BINZEL also makes clear that air cooled torches are lighter, more compact, and easier to handle, but they have clear application limits compared with water cooled alternatives under higher thermal loads. In addition, many customers no longer evaluate torches as standalone products; they increasingly assess suppliers based on complete solution capability, process know-how, after-sales service, and training support, which raises entry barriers for smaller vendors. Overall, the market is driven by factory automation, labor constraints, higher quality

expectations, and safer production requirements, while the main restraints come from thermal performance limits, rising integration demands, and customer preference for full-system solutions rather than individual components.

This report studies the global Air Cooled Robotic Torch production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Air Cooled Robotic Torch total production and demand, 2021-2032, (K Units)

Global Air Cooled Robotic Torch total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: Air Cooled Robotic Torch domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Air Cooled Robotic 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 Lincoln Electric, Tokin Corporation, Abicor Binzel, American Weldqiup, CM Industries, ELCo Enterprises, ESAB, ABB, Sumig USA Corporation, TRM 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 Air Cooled Robotic 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 Air Cooled Robotic Torch Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Air Cooled Robotic Torch Market, Segmentation by Type:

Built-In Welding Torch

External Welding Torch

Global Air Cooled Robotic Torch Market, Segmentation by Rated Current:

20?150?A Light-Duty Air Cooled Robotic Torch

151?350?A Medium-Duty Air Cooled Robotic Torch

351?500?A Heavy-Duty Air Cooled Robotic Torch

Global Air Cooled Robotic Torch Market, Segmentation by Torch Neck Geometry:

Straight Neck Water Cooled Robotic Torch

Angled Neck Water Cooled Robotic Torch

Gooseneck Water Cooled Robotic Torch

Global Air Cooled Robotic Torch Market, Segmentation by Application:

Construction

Automotive

Energy

Others

Companies Profiled:

Lincoln Electric

Tokin Corporation

Abicor Binzel

American Weldquip

CM Industries

ELCo Enterprises

ESAB

ABB

Sumig USA Corporation

TRM Technology

SKS Welding Systems

DELFO S.r.l.

Parweld

Fronius International

Key Questions Answered:

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

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